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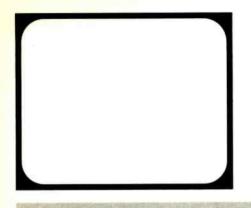
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ATVI £8.00 8 BAIRD 89008901/8902/8903/8906/8922/8928 £6.50	8906:8922/8928/3VO1/3V06/3V22 HR3680/HR760/HR7610/HR7650/ HR7700/HRD110/HRD111/HRD120/ HRD121/HRD220/HRD225/HRS100 FERGUSON 3HSSL PIN	£6.50	VR6711 4 HEAD 6920/R6440 VR6441/VR6540/VR6541/VR6640/ VR6642 RANK	£41.00 £58.00 £14.00	VR8300 VRH8495DK (Pressure Roller Assembly) FERGUSON 3V00, 3V16, 3V22, 3V23, 3V24, 3292, 890		MITSUBISHI HS200, HS300, HS301, HS302, HS303, HS304, HS310, HS320, HS700, HS330 HS306, HS307, HS337, HS338, HS349,	£2.50
8904/8923/8924/8925/8929/8935/8941/8943/ 8944	8904/8924/8941/8943/8944/3V16/3V23/ 3V24/3V31/3V35/3V36/3V38/3V39/3V49 HRD140/HRD141/HRD143/HRD150/HRD HRD153/HRD160/HRD5101/HRS10 FERGUSON	£6,50 0157/ £15,50		£18.00 £7.00	8901, 8902, 8903, 8904, 8906, 8909, 8912, 8922, 8923, 8924, 8925, 8929 3V30, 3V31, 3V32, 8930, 8931, 8940, 8941, 8942 3V35, 3V36, 3V38, 3V39, 3V42, 3V43,	£2.50 £2.50	HS400, HS411, HS412, HS421, HS710, HSB10, HSB20, HSB30, HSE10, HSE20, HSE30, HSE70 NATIONAL	£2.50
8947/8948 £16.00 BAIRD 8950 £17.00 BOSCH BAUER	8947/6948/3V42/3V44/3V45/3V46/ 3V47/3V52/3V54/3V55/3V56/3V57 8950/8951/3V64/FV10/FV11/3V65/FV20/ FV21/FV22/FV26 3V48	£17.00	VR1000/VR1100/VR1200/VR1600	£12.50 £14.00 £15.00 £15.00	3V44, 3V45, 3V48, 3V53, 3V54, 3V55, 3V56, 3V57, 3V58, 3V59, 3V64, 3V65, FV10, FV11, FV12, FV14, 3V49, 8943 8944, 8945, 8947, 8948, 8950, 8951, FV13H, FV20B, FV21R, FV22L, FV26D, FV30B, FV32L, FV33H, FV39S, VC141L	€2.50	NV100, NV180, NV300, NV333, NV340, NV366, NV600, NV688, NV777, NV788, AG6010, AG6015, AG6100, AG6200, AG6400, AG6810, NV3321 NV230, NV370, NV430, NV460, NV730, NV810, NV830, NV850,	£2,50
VRP20 £10.00 VRP25 £10.00 VRP30 £33.50 CANON	3V43/3V53 8930/8940/3V29/3V30 8945 3V00 FV31	£31.50 £7.50 £24.00 £10.00 £22.00	6500/6600 \$V7300/8200/8300/9200 \$V7400/8400	£21.50 £19.50 £23.00 £13.50	FISHER FVHP420, FVHP520, FVHP530 FVHP615, FVHP710, FVHP715, FVHP716, FVHP722, FVHP725, FVHP830, FVH618,	£2,50	NV870, NV890, NV2000, NV2010, NV3000, NV7000, NV7200, NV7800, NV8600, NV8610, NV8620, NVG14, AG1900, AG1200, AG1500, AG2100, AG2100, AG2200, NV260, NV280,	
VR10 £10,00 VR30A/30B/30E/40A £33.50 DAEWOD 912 £22.00	FV37 JVC HRD170/171/210/211 HRD565/566	£38.00 £17.00 £24.50	SVX301/VB900/VB910/VVT510/VT320/ VT5600/VX510/VX511/VX520/VX616/ VX626/VX627/VX717/SV716/717/SVX30 305/VB510/520/610/616/617/619/620/	3/	FVH620, FVH622, FVH622, FVH711, FVH720 FVH721, FVH722, FVH725, FVH730, FVH840 FVHP905, FVHP970, FVHP980, FVHP990,	£2.50	NV380, NV450, NV465, NV470, NV480, NV630, NV650, NV770, NV780, NV8050, NV8150, NV8200, NV8000, NV8400, NVG15, NVG30, NVG400, NVH70, NVG130	£2,50
VCP 11 RAF £22.00 DECCA 8300 £10.00 8400/8500 £6.50 FUNA)	HRD725/HRD755 BR7000E/BR7000S HR72007/300/7350/2650 HRD455 HRD520 HRD300/HRD400/HRD600	£22.00	VB770/VI730/770/VK8220/VX750/ 770/8225	£19.00 £21.00	[FVHP5000, FVHP5005, FVHP5050, FVHP5 FVHP5100, FVHP905, FVHP906, FVHP906 FVHP910, FVHP911, FVHP915, FVHP916, FVHP918, FVHP975 VBR330, VBS3500, VBS7000, VBS7500, VBS7600, VBS9000, VBS9900	£2.50	NVG7, NVG19, NVG12, NVG18, NVG9, NVG10, NVG11, NVG120, NVG16 NVG21, NVG25, NVH65, NVG33, NVG46, NVG50, NVG300, NVF65,	£2.50
E11/VIP1000/VP1400/VCR4000/V1/2S/VCR4500 4800/VCR5200/5600/6400/6600 VIP3000/E1100 VCR4600/5400/5800 VCR5480/5843 E22.00	HR4100 HRD750 HRD250/257 JVC & FERGUSON 3V32/8942/HR7855	£33.00 £27.00	SANYO VTC\$000/VTC\$400/VTC\$6000/VTC\$500/ VPR\$000/VTC1500/VTCM10/VTCM11/ VTCM20/VTCM21/VTCM25/VTC2000/ VTC\$100/VTC\$150/VTC\$300/ VTC\$100/VTC\$150/VTC\$300/ VTC\$100/VTC\$150/VTC\$300/ VTC\$100/VTC\$150/VTC\$300/ VTC\$100/VTC\$150/VTC\$300/		FIDELITY HQS200, VCR100, VCR600, VCR6100 VTR1000	£2.50 £2.50	NVF70, NVF51, NVF5100, NVH75, NVJ30, NVL20, NVL23, NVL25, NVL28 NVD48, NVD80, NVG21, NVG45	£2.50 £2.50
VCR6800/6803 £16.00 FISHER FVHP510/520/530/615/622/710/715/720/721/722/ 910/FVHP620/711905/906/908/911/915/918/ 5000/FVHP420/5005/5050/5075/5001/618/730/	HRD180/230/3V59FV12UFV208/ FV22/26/30/32/33 HRD370/3V58/FV13H/HRD430/HRD470 HRD530/700/FV14T GRC1/GRG2/3V41	£30.50 £27.00 £33.50	VTC5500/VTC5550/VTC9100/VTC9300/	£18.50	FIJITSU HS760, VX715, VX720D FUNAI V1, V2, VCR4000, VCR4500, VCR4530,	£2.50	N830, N831, N832, N833, N895 PVC2300, PVC7409, PVC740, PVC744, PVC746, PVC760, PVC764, PVC766 ORION VH1, VH2	£2.50 £2.50
830918 £12.25 VBS3500/7500/7600/9900/VB53500/7100/7600/ 9900/VBR330 £20.00 VBS7000/VBS7100/VBS9000 £22,00	LOGIK VR960 VR950 LOEWE	£16.00 £16.00	VHR1700/VHR2300 VHR3200/VHR3270/VHR3100 VHR3150/VHR3300 VHR3400/VHR3310/ VHRD500 VHR1100/VHR1200	£18.00 l	VCR4600, VCR4800, VCR5200, VCR5400, VCR5840, VCR5843, VCR6000, VCR6600, VCR6800, VCR6803 VIP1000, VIP1400, VIP3000	£2.50 £2.50	VC150, VC180, VH1000, VH200, VH201, VH205, VH212, VH250, VH254, VH288, VH3, VH300, VH303, VH3030, VH312, VH33, VH3312, VH404, VH704, VH708, VH712, VH770, VH780,	£2.50
FVHP990 £32.00 FVHP975 £27.00 FIDELITY HOS2004/CRE00/6100 £15.00	OC410/420/440 OC50/OC55/OC60/OC65 LUXOR 9225	£15.00	SHARP VC390/VC393/VC496	£28.00 £24.50 £30.00 £48.00	GEC V4004 GRANADA VHSAH1, VHSAH3, VHSVH4, VHSWH1,	£2.50	VR2948 VH300, VH3050, VH2308, VH2400, VH2600, VH2700, VH4300, VXL20, VXL25, VXL30 Etc	£2.50
VCR100 £12.00 VTR1000 £13.00 GOLDSTAR 8000 3HSSDB GVH51/GVH1221/VCP4000/VCP4100/	VX735/VX755	£15.00	VC779 VC789/VC790 VC300/VC381/VC383/VC386/VC387/ VC388 VC482/VC483/VC486/VC3300/ VC8381/VC9100/VC9300/VC9500/	£20.00 £32.00	VHSXH1, VHSYH2 VHSAN3, VHSBP1 VHSAY3 VHSBH1, VHSCH1, VHSFS1, VHSFS2, VHSEH2, VHSEH3	£2.50 £2.50 £2.50 £2.50	PHILIPS VR6460, VR6920 VR2020, VR2021, VR2022, VR2023, VR2024 VR6711 VR6540	£2.50 £3.20 £2.50
VCP4200 £18.00 GHV12321/1245/1246/8210/8215/GHVP1240/ 1241/GHVP1247/1248/VCP400 £16.50 G.E.C.	H\$306/H\$318/H\$710 H\$307	£19.50 £20.00 £37.00	VC582/VC583/VC661/VC750/ VC780/VC781/VC683/VC684/402/500/ 571/573/581/584/585/600/682/685/ 693/VC700/772/7810/782/7822/783/8481		VHSDS2 VHSDP1, VHSFP2 (Pressure Roller Assembly VHSEY1	£2,50 £2.50 £6.25 £2.50	DV856, VR6485, VR6585, VR6589, VR6880, VR6948 VR445, VR6442, VR6542, VR6843, VR6943 DV464, VR2324, VR2300, VR2334,	£2.50 £2.50 £2.50
VHSAH1 £13.00	HS330 HS400 HS349 HS341	£37.00 £32.00 £29.00 £28,00	VC6000/VC6200/VC6300/VC7300/ VC7700/VC7750/VC8000/VC8300 VC793 VC473/755/786	£20.00 £36.00	VHSFJ4, VHSYJ2 VHSF63 VHSTJ1, VHSTJ2, VHSTJ3	£2.50 £2.50 £2.50 £2.50 £2.50	VR2340, VR2350, VR2414, VR2480, VR2486, VR2489, VR2490, VR2499, VR2499, VR2496, VR6460, VR660, VR660, VR6861, VR6862, VR6863	£2,50
VHSAN3 £8.00 VHSAY3 £14.00 VHSBH1/CH1 £21.00 VHSBP1 £8.50	HSE11 HS300/HS301/HS302/HS310 HS200	£37.00 £18.50	DSR-19R (FOR SL-T 9ME) DSR-21R (FOR SLC 8-C9) DSR-35R (FOR C20/C30/C40/ SLF1UB/SLF1E) 2 PIN SLC24PS/	£39.00 £30.00	GRUNDIG BARCELONA, MADRID, MVS500, MVS550, MVS600, MVS620, 660. SE5110, SE5140, SE6100, SE6160, TVR4500, VS500, VS505, VS510, VS520,		Pressure Roller Assembly DV186, DV190, DV286, DV486, DV471. DV582, DV571, DV761, VR6180, VR6182, VR6185, VR6285, VR6290, VR6291, VR6293, VR6362, VR6367,	
VHSEH2 £21.00 VHSEY1/EY2 £14.00 VHSFG2/FG4 £16.00	NATIONAL PANASONIC 4HSS-3HSSN NV3000/NV300/NV7200/NV333/NV7500 NV7800/NV7850/NV322/NV332/NV340/ NV390/NV2000/NV2010/NV7000/		DSR-43R (FOR SLC7 RANGE/SL5000/ SL5100/SL3000) 1 PIN SLC6E/ SL36ES/SL37E		MV\$400, MV\$440, V\$400, V\$410,	£2.50	VR6390, VR6391, VR6393, VR6467, VR6468, VR6470, VR6561, VR6570, VR6581, VR6670, VR6676, VR6760, VR6761, VR6762, VR6870, VR6970, VR6975, VR66B1, 63SB7, 68SB4, 71SB4, 72SB8, 92SB31	£6,25
VHSTJ1/TJ2/TJ3/WJ3/VHSYJ2 £7.00 VHSVH4/WH1/XH1/YH2 £16.00	NV8170/NV8200/NV8400/ NV8600/NV8610/NV8620 NATIONAL NV777/NV330	£6.25	SLK95/SLT50ME TOSHIBA V63	£29.00	VS150 GOLDSTAR GHV1221, GHV1232, GHV1240, GHV1241 GHV1242, GHV1243, GHV1244, GHV1245		SANYO VHR1100, VHR1300, VHR1500, VHR2300 VHR1150, VHR1200, VHR2100, VHR2500 VHR2700	
4812/4905/4912/TR4913/4914/4943 £6.50 4935/4943/4963/4985/4993/TR4833/4935/ 4985/4993 £6.50 4920/4927/4930 £17.00 4946/TR4906/4916 £16.00	NV280/NV460/470/480 NV730/NV770 (4 HEAD) NV366 NV180/NVD48 NV370/NV380/NV100/NV630	£16.50 £18.50 £18.50 £23.00 £8.50	V8600/8700 V21/V31/V33/V50/V51/V53/V9600 V55/V57 V71/V73/V74/V75/V81/V82/V83/V84/ V85/V86/V87/V80/V77	£38.00 £14.50 £7.00 £14.00	GHV1246, GHV51, GHV8210, GHV8215. GHVP1240, GHVP1241, GHVP1247, GHVP1248, GHVP1290, GHVP1291, GHVP1295, GHVP1296, VCP4100, GHV51, GHV8000, GHV8200, VCP4000,		VTC5000, VTC5150, VTC5500, VTC9300, VTCM10, VTCM20, VTC5150, VTC5350, VTC5400, VTC5400, VTC5400, VTC5400, VTC5400, VTC5400, VTCM31, VTCM31, VTCM500, VHR3300, VHR3310, VHR3700	£2.50
TR4994 £23.00 TR4995 £33.00	NV788 NV810/NV830	£36.00 £30.00	V93/V80 V5470/V5480	£20,00 £18.00	VCP4130, VCP4200, VCP4300, VCP4301, VCP4305, VCP4306, VCP4310, VCP4311, VCP4315, VCP4316, VCP4320, VCP4321,	£2.50	VHRD500, VHRD700 VTC3000 SHARP VC381, VC386, VC2300, VC3300.	£2.50 £2.50
SEE PREV ← GR	/IOUS PAGES ANDATA BAI	?G/	AINS		V20H, VXL10, VXL11, VXL19, VXL5, VXL6, VXL7, VXL8, VXL9, VXL90 VXL2, VXL3	£2.50	VC7300, VC7700, VC8300, VC9100, VC9300, VC9500, VC9700, VC200, VC2300, VC390, VC394, VC385, VC388, VC390, VC393, VC6000, VC6200, VC7750, VC800	£2.50

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ı	VCR PINCHROLLERS Cor	nt.	GRUNDIG MV\$400, MV\$440, V\$400, V\$410,		TOSHIBA	£0.85	ORION Cant. NVHL, NVHM LOADING MOTOR	£8.00	1TT PART NO : 13/1074	
ı	\$HARP Cont. VC387, VC481, VC483, VC486, VC496, VC581, VC582, VC583, VC585, VC402,		VS440, VS450, VS460 HINARI	£0.55	V55, V57 V5250, V5280 V33, V53, V96, V9600, V9680	£2.30 £0.85	VH250, VH254, VH288, VH300, VH404, VH412, VH512, VH530, VH535, VH600,		USED ON: CP0200, 0211F, 0323, 0323/1, 0341/15, 0345F, 0351, 0351/1, 0361, 0361/1, 9350, CT0500, 0500/1/T,	
B	VC471, VC473, VC477, VC500, VC571, VC573, VC584, VC5W20E, VCA1031	£2.50	VXL2 VXL7, VXL8, VXL9	£0.80 £1.80	V61, V63, V65, V66, V67 TRIPLERS	£1.50	VH630, VH635, VH640, VH666, VH704, VH730, VH735, VH744, VH770, VH774, VH820, VH844, VH850, VH888, VH893,	- 1	0500T PRICE : £3.50	
۲	VC651, VC681, VC685, VC750, VC780, VC781, VC785, VC787, VC793, VCT72, VC600, VC682, VC684, VC693, VC699.		VXL4, VXL35 VXL5, VXL6 VXL3, VXL20	£1.60	UNIVERSAL THORN 9000 SERIES	£4.50 £8.00	VH900, VH974, VH1012, VH1204, VH1440, VH1500, VH1660, VH1800,		PART NO LFC 005 USED ON CVC40	
ı	VC700, VC772, VC7810, VC782, VC7822, VC7282MK2, VC783, VC786, VC800.	- 1	WT11, VT14, VT17, VT19, VT33, VT34,	20.00	PHILIPS G9 G8 520/550	£7.50 £7.50	VH2004, VH3030, VH3050, VH3060, VH4010, VH4015, VH4020, VH5010. VH5015, VHF2A, VP220, VR2948.		MATSUVSAISHO USED ON MATSUI-2190 SAISHO-FST2130TX	7
ı	VCF3, VCA100, VCA102, VCA104, VCA202, VCA303, VCA211, VCA234, VCA501, VCA602, VCD801, VCD802,		VT35, VT38, VT39, VT88, VT165, VT330	£1.00 £1.20	KT3 DECCA 100 SERIES 120/130		VR2949, VR2956, VR2957, VR2966, VR2980, VXL20, VXL25, VXL30	_	PRICE £3.50	-
ı	VCH852, VCH881 VC220	£2.50 £2.50	VT7000, VT8000, VT8500 VT680, VT6500, VT6800, VT9300, VT9500, VT9700, VT9900	£0.60	ITT CVC 20/30 CVC 825	£8.00	PHILIPS VR6540 REEL MOTOR	£16.00	USED ON K30, K35, K40, KT3, KT4 PRICE £1.50	_
	SAISHO VR2000, VR3800	£2.50	VT52, VT61, T62, T63, VT64, VT65, VT85, VT86, VT640	£1.50	RANK T20A UNIVERSAL TO FIT 20AX TUBE	£7.00			PART NO : 155466611 (POWER SWITCH 26mm + REMOTE SWITCH)	
ı	SOLARA SV6500, SV6600	£2.50	VT3000 VT100, VT110, VT111, VT113, VT115,	£1.50	30AX TUBE	£8.00	VR905, VR2000 SAMSUNG		USED ON: KV1612 MK1, KV1612 MK2, KV1614, KV2052, KV2056, KV2062, KV2066, KV2212, KV2216, KV2252.	ž
B	SV7300, SV8200, SV8300, SV9200, SV9300 SV7400, SV8400, SV8420, SV8500,	£2.50	VT118, VT120, VT125, VT128, VT130, VT138, VT145, VT150, VT175, VT220, VT225, VT250, VT255, VT258, VT260.		DIODE SPLIT TRANSFORMER	ł	SANYO	E11.00	KV2066, KV2212, KV2216, KV2252, KV2256, KV2704, KV2705, KV2706, KV2752PE3, KV2756PE3, KX20PS1,	į.
ı	\$V8520, \$V8550, \$V8600, \$V8620, \$V8700, \$V8710, \$V8720, \$V8800,		VTL30	£1,50	LEADS TO FIT CHASSIS CODE: CTX TYPE G11 TYPE	£2.50 £2.50	4-529V 10800 (RM11) REEL MOTOR VTC5000, VTC5150, VTC5300 VTC5400, VTC6000, VTC6500	£6.30	KX20PS2, KX27PS1 PRICE: 63.50	į.
ı	SV8830, SV9500, SV9600, SV9810 SV8000, SV8100	£2.50 £2.50	VR3605, VR3905, VR3935, VR3954, VR3985 VR3913, VR3914	£0.90 £1.00	KT4 TYPE	€2.50	VTC3000 CAPSTON MOTOR SHARP	£25.00	PART NO : 155496511 (POWER SWITCH 21mm + REMOTE SWITCH) USED ON KV2022, KV2024	1
ı	SAMSUNG SV716, SV717, VB510, VB520, VB610, VB616, VB617, VB619, VB620, VB626,		VP3826, VR3906, VR3916, VR3926, VR3946, VR3948, VR3976, VR3986,		VIDEO MOTORS AMSTRAD		RMOTV 1008GEZZ REEL MOTOR VC200, VC381, VC384, VC385.	£13.50	PRICE : £3.50 PART NO : 155482011 (POWER SWITCH) USED ON : KV1810 MK1, KV1810 MK2,	1
0	VB627, VB629, VB900, VB910, VI510, VI520, VI611, VI616, VI621, VI626.		VR3995, VR3997, VR6948 VR 927, VR3928, VR3977 VR3993, VR3994		AIWA	£17.00	VC386, VC483, VC3300, VC8381, VC9100, VC9300, VC9500, VC9700 RMOTV 1007GEZZ REEL MOTOR	£16.00	KV1820, KV1822, KV2000 MK1 PRICE: £7.50	
	VI900, VI910, VX510, VX520, VX616, VX617, VX619, VX626, VX627, VX629 SVX301, SVX303, SVX305, SVX307,	£2.50	VR3963 VR3912	£0.65 £1.50 £1.50	AV77 CAPSTON MOTOR AKAI	£25.00	VC300, VC402, VC471, VC477, VC481, VC482, VC488, VC496, VC500,	- 1	PART NO . 155496711 (POWER SWITCH 26mm) USED ON : KV1400, KV1440, KV2040, KV2060	
9	SVX319, SVX322, VB710, VB770, VB8220, VB971, VB8225, Vi730, VI770,		VR3917 VR3929, VR3968 VR3907	£0.85 £1.00		£21.00	VC571, VC573, VC581, VC582, VC583, VC584, VC5F3, VC8481, VC8581, VC7822, VCA102 CAPSTON MOTOR	£32.00	PRICE : £2.00 SONY	
	V1790, V18220, V18225, VK8220, VX710, VX712, VX720, VX730, VX750, VX770, VX790, VX8220, VX825, VX970, VX971.	60.50	JVC HR3300, HR3330 HR3360,		VP7100, VS9300, VS9500, VS9800 DRUM MOTOR AUTHENTIC	£19.50	VCA202, VCA234, VCA602		PART NO : 155258800 (POWER SWITCH 21mm + REMOTE SWITCH) USED ON : KV2020	'
	VX972 SIEMEN	£2.50	HR3660, HR4100 HR7200, HR7300 HR7350, HR7600, HR7610,	£1.30 £0.70		£19.00	SLC5, SLC7, SLC37, SL3000	£25.00	OSED ON : KV2020 PRICE)
	FM350, FM352, FM355 FM361, FM362, FM363, FM364 FM391, FM392, FM394, FM461,	£2.50 £2.50	HR7650, HR7655 HR7700	£0.75 £0.75	RTV211 RTV214 REEL MOTOR RTV325 LOADING MOTOR	£13.00 £8.00	THOMSON VK300, VK301 CAPSTON MOTOR VK302, VK303, VK305, VK3301	£21.00	USED ON . KV1612 MK1, KV1612 MK2, KV2052, KV2056, KV2212, KV2215, KV2216, KV2252, KV2256, KV2704,	ľ
ı	FM462, FM464, FM468, FM561 SONY	£2.50	HRD140, HRD150, HRD157, HRD158,	£ £0.90	DECCA	£19.00	VK300, VK302 DRUM MOTOR VK303, VK305, VK308, VK3301	£19.50	KV2705, KV2706, KV2752PE3. KV2756PE3	
	SLC5, SLC6, SLC7, SL3000, SL8000, SL8080, SL8200, SL8600, SL36, SL37, SLJ10, SLT6ME, SLT7ME	£2.50	HRD160, HRD250, HRD257, HRD455, HRD565, HRD566, HRD725, HRD755, HRP50	£0.80	FISHER BVR330, VBS3500, VBS7500			£19.50	PRICE £0.60 PART NO : 155336300 (FUNCTION SWITCH) USED ON : VARIOUS	
1	SLC44, SLHF100, SLF1, SLF11, SLF25,	£2,50	HRD170, HRD180, HRD210, HRD230, HRD300, HRD320, HRD370, HRD400,	£0.80	VBS7600, VBS9900 REEL MOTOR FERGUSON	£6.30	V61, V63 LOADING MOTOR V71, V73, V74 REEL MOTOR V75, V81, V83, V85, V86, V93, V94,	£8.00 £10.50	PRICE : £1.00	4
	SLF30, SLF60, SLF100, SL200, SLF60PS, SLF90E, SLHF150, SLHF850, SLK88.	£2.50	HRD430, HRD530, HRD700, HRD750, HRD950, HRS5000, HRS5500	£1.10	PU 45979 CAPSTON MOTOR HR3300, HR3660, HR4100, 3V00, 3V01,	£21.00	V300, V500, V700, DV90 V71, V73, V74 CAPSTON MOTOR	£9.50	VIDEO LAMPS UNIVERSAL VIDEO LAMPS 9V 80mA (310mm WIRES £0.30	,
	SLK95, SLT20ME, SLT30ME, SLT50ME BMC100, BMC200, BMC500 SLV201, SLV202, SLV301, SLV302, SLV401, SLV402, SLV801, SLV802	£2.50	VX850	£0.75	3V16, 3V22, 3292, 8900 , 8901, 8902. 8903, 8 904 , 8906 , 8909, 8912, 8922	£19.50	V75, V81, V83, V85, V700 V86, V93, V94 CAPSTON MOTOR	£15.00	PANASONIC VIDEO LAMPS £0.50 SHARP VIDEO LAMPS £0.50	0
0	TOSHIBA	£2.50	MITSUBISHI H\$200, H\$318, H\$319, H\$410 H\$300, H\$301, H\$302, H\$307, H\$310 H\$303, H\$304, H\$306, H\$320, H\$330.	£2.00	PU 55371V CAPSTON MOTOR 3V35, 3V36, 3V38, 3V39, 8943, 8944, HRD110, HRD111, HRD120,	2.0.00	CASSETTE HOUSING GRANADA		HITACHI 5381682 (VT63/64) VIDEO LAMPS £1.35	5
	DV80, DV90, DV96, DV97, V200, V200, V202, V205, V207, V300, V309, V500, V509, V55 V57, V61, V63, V65, V66, V67, V700, V71, V73, V74, V75, V77.		H\$300, H\$301, H\$302, H\$307, H\$310 H\$303, H\$304, H\$306, H\$320, H\$330, H\$400, H\$700	£1.50	HRD121, HRD225 PU 46414 DRUM MOTOR HR3300, HR3320, HR3330, HR3360, HR	£19.50	VHSDP1 CASSETTE LIFT ASSEMBLY VHSYJ2	£15.00 £24.00	VIDEO SENSOR LAMPS AIWA, AKAI, ALBA, AMSTRAD, BLAUPUNKT,	
To the	V81, V83, V85, V86, V93, V94	£2.50	NEC N830, N831, N832, N833	£1.00	HR3660, HR4100, 3V00, 3V01, 3V16, 3V22, 3292, 8900, 8901, 8902, 8903.		FERGUSON & JVC 3V38, 3V39, 8943, 8944, 8951, 3V35,		AIWA, AKAI, ALBA, AMSTRAD, BLAUPUNKT, FIDELITY, FISHER, FUJITSU, FUNAI, GEC, GOLDSTAR, GRANADA, GRUNDIG, HINARI, UITAGUITT, INC. (URD SEDICE) MATSIII	
	V5470, V5480 V91, V951 (Pressure Roller Assembly)	£2.50 £6.25	N895 PVC2300, PVC2400 NATIONAL	£1.30	8904, 8906, 8909, 8912, 8922 PU 51381V REEL MOTOR 3V29, 3V30, 3V31, 3V32, 3V39, 8930,	£19.00	3V42, 3V43, 3V44, 3V45, 3V48,	£24.00	PHILIPS, SAISHO, SALORA, SAMSUNG,	
I	VCR BELT KITS		NV300, NV332, NV333, NV340, NV366 NV600, NV688, NV777, NV788,	£1.35	8931, 8941, 8942, HR7200, HR7300, HR7600, HR7610, HR7650, HR7655		3V53, 3V54, 3V55, 3V57, 8945, 8947, 8948, HRD140, HRD141, HRD150, HRD157, HRD158, HRD160, HRD250,		SANYO, SHARP, SIEMEN, SONY, TELEFUNKEN, THOMSON, FERGUSON, TOSHIBA	
Ä	AKAI VP7100, VS9300, VS9500, V\$9700.	£1.30	AG6010, AG6015 NV2000, NV2010, NV3000	£1.00 £1.50 £0.95	FERGUSON & JVC PU 58635V CAPSTON MOTOR	£29.00	HRD257, HRD455, HRD565, HRD566, HRD725, HRD755	£24.00	(SENSOR LAMP CODE NO VLO5) £1.66 AKAI, GRANADA (VHSTJ2), HITACHI (VT3000),),
1	VS9800 VS1, VS2, VS4, VS5, VS12, VS15, VS53, VP88, V56, V58, V59	£1.00	NV7000, NV7200, NV7500, NV7800 NV8600, NV8610, NV8620 NV230, NV250, NV260, NV280, NV370,	£1.60	3V58, 3V59, 3V64, 3V65, 8950, 8951, FV10B, FV11R, FV12L, FV13H, FV20B, FV21R, FV22L, HRO170, HRD180, HRD2	230.	8948, 8950, FV10B, FV12L, FV13H. FV14T, FV20B, FV21R, FV22L, FV26, FV395, HRD230, HRD430, HRD530	£24 00	ITT (VR3912/VRP3833), JVC (HR2200/3300/3330 HR3660), MITSUBISHI (HS200), TELEFUNKEN (VR510, VR519/610), THOMSON)
	VS10	£0.65	NV380, NV430, NV450, NV460, NV465, NV630, NV730, NV770, NV780, NV810, NV830, NV850, NV870, NV890, AG1000		HRD370, HRD430 PU 58636W REEL MOTOR	£17.00	3V58, 3V59, 3V64, 3V65, FV11R, 8950, 8951, HRD170, HRD180,		(VK300/305/306/3301), FERGUSON (3V00/3V16 3V22/3V24/3292/8900/8901/8902/8903/	
	AV66 AV77 G700	£1.25 £1.40 £1.60	AC 1200 AC1500	£1.25	3V58 3V59, 3V64, 3V65, 8950, 8951, FV10B, FV11R, FV12L, FV13H, FV14T, FV20B, FV21R, FV22L, HRD170, HRD18	0,	ITT .		(CASSETTE LAMP 9V 80mA 310mm WIRES CODE NO: VL01)	Ĭ
	G900	£1.80	VR6540	£1.70 £1.00	HRD230, HRD370, HRD430, HRD530 LOADING MOTOR 3V42, 3V43, 3V44, 3V45, 3V48, 3V53.	£8.00	VR3605, VR3905 VR3916, VR3926, VR2946, VR3948, VR3976, VR3986, VR3995, VR3997.	£24.00	BLAUPUNKT, ORION (VH1/2A), NATIONAL (NV2000, NV2010, NV3000, NV8150, NV8200, NV8400, NV8600, NV8610, NV8620), SHARP	
3	VCR3000X, VCR4000	£1.30	DV186, DV190, DV286, DV468, DV471. DV562, DV571, DV761, VR6180, VR6185, VR6285, VR6290, VR6291,	VR6182,	3V54, 3V55, 3V56, 3V57, 8945, 8947. 8948, HRD140, HRD150, HRD167.		VR6948 NATIONAL	£24.00	(VC2300, VC6000, VC6200, VC6300, VC7300, VC7700, VC8000, VC8300) £0.5	
I.	TVR123, VCR4600, VCR4700, VCR5200 VCR7000	£1.60 £0.80	VR6293, VR6362, VR6367, VR6390, VR6391, VR6393, VR6467, VR6468, VR6470, VR6561, VR6570, VR6581,		HRD158, HRD160, HRD250, HRD257, HRD455, HRD565, HRD566, HRD725, HRD755, HRP50, R73AF		NEC	£31.00	(CASSETTE LAMP 6V 150mA CODE NO: VLO2 AKAI (VS10), GRANADA (VHSXJ3), ITT (VR3993, VR3994), JVC (HR2650, HR7600, 7610	
1	VCR6000, VCR6100	£1.80	VR6670, VR6676, VR6760, VR6761; VR6762, VR6870, VR6970, VR6975,		PU60201V CAPSTON MOTOR HRD300, HRD330, HRD337, HRD400, HRD520, HRD530, HRD700, HRD750.	£34.00	N895	£24.00 £24.00	HR7650, HR7655), TELEFUNKEN (VR530, VR630, VR630, VR630, VR630, VR650)	
	DECCA	£1.20	VR72SB8, VR68SB4, VR86SB1, VR92SB3	£0.85	HRD950, FV14T HRD 140, HRD150 CAPSTON MOTOR	£30.00	PHILIPS CASSETTE LIFT ASSEMBLY 69120366	£15.00	THOMSON (V309, V316, V357, VK309, VK411, TX8000), FERGUSON (3V31, 8941, 8942) £0.5	0
1	VR8300 VRH8945DK FERGUSON	£1.20 £0.80		£0.70	HRD250, HRD565, HRD566 3V29, 3V30 CAPSTON MOTOR 8930, 8931	£30.00	DV186, 190, 286, 471, 562, 761, VR6180, 6182, 6185, VR6285, 6290.		(CASSETTE LAMP 9V 80mA 310mm SKEQ CODE NO: VLO6) AUTHENTIC (N850), DECCA (VR8300).	
1	3292, 3V00, 3V01, 3V16, 3V22, 8900, 8901, 8902, 8903, 8904, 8906, 8909.		VR2000 VR3800	£0.90 £0.75	HINARI		VR6467, 6468, 6470, 6561, 6670. VR6760, 6761, 6870, 6970	£15.00	GRANADA (VHSTJ3, VHSWJ1, VHSWJ3), ITT (VR3913, 3914, 3963), JVC (HR7200, 7300, 7350),
-	8912, 8922 3V23, 8923, 8924, 8929 3V29, 3V30, 89 30, 8931, 8940	£1.35 £0.65 £0.90	SV6500	£1.00 £1.50	ANCEO MEETING C.	£8.00 £13.50	TELEBUNKEN	£24.00	549, 620, 640, 920, 1920), THOMSON (V4100, VK308, 309, 312, 410), FERGUSON (3V23, 3V29	э,
1	3V31, 3V32, 8941, 8942 3V35, 3V36, 3V38, 3V39, 3V49.	£0.85	\$V8000 \$V8100	£1.20 £0.60	5578154 CAPSTON MOTOR	£20.00	THOMSON V320, V321, V323, V326.	=2.5	3V30, 8923, 8924, 8929, 8930, 8931, 8940] f 0.5	- 11
	8943, 8944 3V42, 3V43, 3V44, 3V45, 3V48, 3V53, 3V54, 3V56, 57, 8945, 8947, 8948	£0.70	SV7300, SV7400, SV8400, SV8420,	£1.50	VT52, 61, 62, 63, 64, 65, 640 VT3000 CAPSTON MOTOR	£21.00 £19.50	V4200, V4300 V342, V343, V352, V353, V360, V364	£24.00	GRANADA (VHSAY3), SHARP (VC200, 381,	
1.	3V58, 3V59, 3V64, 3V65, 8950, 8951, FV10, FV11, FV12, FV13, FV14, FV20,		SAMSUNG		VP3826 VR3906 LOADING MOTOR	€8.00	V388, V4210, V4230, V4260, V4400. V5500, V6000, V8540 TOSHIBA	£24.00		0
	FV21, FV22, FV26, FV30, FV32, FV33 FIDELITY	£1.05	VX616, VX626, VX627 VB520, V8610, VB616, VB617, VB619,	£0.85	VR3916, VR3926, VR3846, VR3948, VR3976, VR3997, VR6948 VR3912 CAPSTON MOTOR	£21.00	V55, V57 V65, V66	£24.00 £24.00	VLO8)	\dashv
-	HQS200, VCR600, VCR6100 VCR100 VTR1000	£1.60	V8620, V8626, V8627, V8629, V1510, V1520, V1611, VX510, VX520, VX617, VX619, VX629	£1.00	VR3912 DRUM MOTOR VR3605, VR3905 CAPSTON MOTOR	£19.50 £19.50	PANASONIC		NATIONAL LINE OUTPUT TRANSFORMER	
-	FISHER VBS7000	£2.45	VB900, VB910, V1900, V1910 SANYO	£1.10	VR3935, VR3954, VR3985 VR3913, VR3914 REEL MOTOR VR3993, VR3994	£19.00	MODE SWITCHES NV2000, 2010, 7000, 7200, 7800 (VSS0048)	£4.00	TLF 146-118 £19.0 TLF 15542F £25.0 TLF 14568F £26.0	90
N	VBS9000 FVHP520, FVHP530, FVHP420 FVHP615, FVHP618, FVHP620, FVHP62	£1.20	VTC5000, VTC5150, VTC6000, VTC6500 VTCM10, VTCM11, VTCM20, VTCM21, VTCM30, VTCM31, VTCM50	£0.75	MITSUBISHI 288P02801 MOTOR REEL SPOOLING	£33.50	NV230, 260, 430, 810, 670. 2300, 4300 (VSS0110)		TLF 14567F £26.0 TLF 14715F £27.0	00
(8)	FVHP710, FVHP711, FVHP715, FVHP716 FVHP720, FVHP721, FVHP722, FVHP729	6, 6,	VTC5300, VTC5350, VTC5400, VPR5800 VTC5500	£1.00 £0.95	H\$300, 301, 302, 310	£31.50	778 (VSS0060)	£3.00	TLF 6609B £23.0	ю
3	FVHP730, FVHP830, FVHP840 FVHP905, FVHP906, FVHP907, FVHP901 FVHP910, FVHP911, FVHP915, FVHP910	£1.00 B, 6,	VTC1100, VTC1300, VTC1500, VHR1100, VHR1150, VHR1200.	£2.20	288P03401 MOTOR REEL TAKE UP GEN	£21.00	NVG21, 25, NVH65, NVD80 (VSS0175A)	£2.50		00
-	FVHP918, FVHP5000, FVHP5005, FVHP5050, FVHP5075, FVHP5100 VBR330, VBS7500, VBS7600, VBS9900	£1.00	VHR1300, VHR1500	£0.90	NEC	0:	ON/OFF MAIN SWITCHES		9V MOTOR £2.0 12V CW MOTOR £2.0 12V CCW MOTOR £2.0	00
2	VBR330, VBS7500, VBS7600, VBS9900 VBS3500 FUJITSU	£0.75	VC200, VC381, VC363, VC364,		N830EG, N831EG CAPSTON MOTOR N832_N833EG N895 LOADING MOTOR	£19.50	GRUNDIG		13.2V CCW MOTOR £2.9	
-	H\$760, VX715, VX720D	£1.60	VC9500, VC9700	£1.25	NATIONAL	-	USED ON C7500, C7500TT, C8500, C8 C8712, C8714, C8894, M66-	190,	CASSETTE TAPE HEADS MONO HEAD STEREO HEAD £0.9 £1.1	∌0 10
	V1, V25, VCR4600, VCR4800, VCR5200, VCR5400, VCR5600, VCR6600	£2.10		£1.50 £1.50 £1.50	VEM0212 MOTOR REEL GEN	£30.00	ST66-1602 T55-340 V7722	une(),	MINI HEAD £2.3 AUTO REVERSE HEAD £2.6	30
13	VCR4530, VCR5840, VCR5843, VCR6800, VCR680 VIP3000, VIP5000	£1.80	VC300, VC387, VC471, VC473, VC477, VC481, VC483, VC486, VC488, VC496, VC8481	£1.00	NV730/NV770 VEM0217 REEL MOTOR NV7000	£19.00				
	GEC 4005	£1.50	VC496, VC8481 VC402, VC500, VC571, VC573, VC581, VC582, VC583, VC584, VC585,		MAX13V9LP CAPSTON MOTOR NV300, NV332, NV333, NV340.	£30.00	CRAA	В	ATALTD	
4	GOLDSTAR	£1.00		£0.90	ORION	£13.50	GIT/AIN K P. H		ATA LTD E, UNIT 15, IRCIAL CENTRE,	
1	GHV1221, GHV1232, GHV1241, GHV1242, GHV1243, GHV1244, GHV1245, GHV1246, GHV1248, GHV51	ı.	VC772, VC781, VC782, VC783, VC785, VC786, VC793, VC800, VC7810,		NEVHL, VC150, VC180 REEL MOTOR VH201, VH205, VH212, VH250, VH254, VH288, VH3, VH300, VH303, VH312, VI	H700.	POP IN CO	ММЕ	RCIAL CENTRE,	
3	GHV8000, GHV8210, GHV8215, VCP4100, VCP4130	£0.80	VC7822, VC6F3, VC6V3, VCA100, VCA102, VCA103, VCA104, VCA202 VC7750, VC8000	£0.70 £1.50	VH704, VH708, VH712, VH770, VH774,		SOUTH	WAY ESE	, WEMBLEY, K. ENGLAND	
	GHV1290, GHV1291, GHV1295, GHV1296, VCP4200, VCP4300, VCP430 VCP4305, VCP4306, VCP4310, VCP431	1,	SONY SLC6, SL36ES, SLJ10, SLT6ME	£1.40	VH2204, VH3030, VH3050, VH3060, VH4008, VHF2A, VP200, VH2004,		Tel: 081-900	2329	Fax: 081-903 6126	П
	VCP4315, VCP4320, VCP4321, VCP4321 VCP4326, VCP4000 GHV1247, GHV8200	5, £1.20 £1.50	SLC5, SLC7, SL37E, SLT7ME D SLC9	£1.40 £1.6! £2.00	VH4008, VHF2A, VP200, VR2948,					
11	G. 1247, G. 10200	21.3								
			E		I .		¥.			

SC	NY FLYBACK TRAN	ISFORMERS		FISHER						T	
David Mar. 11.	4-1	_	Price	FVHP420, 520, 530 FVHP615, 618, 620	FF-REW PULLEY COMP IDLER ASSY	HI638531 FI1430420400	£1.00 300 £3.30	MITSUBISHI Cont. HS337 338, 411, 421 HS200	IDLER TAKE UP IDLER (LARGE	552801801	£3.:
1-439-256-11 KV 1-439-286-21 KV	IOBES -2002E. 2010E. 2200E. 2015, 182 -2012ME. 2016ME. 2015ME. 201 -2704EC. 2704UB. 2704ET. 2704I -2215UB. 2217UB. 2215EI. 2215E	OME E(A), 2704E FF 2212EX 2215ET	£14.00 £40.00 £30.50	FVHP622 710, 711, FVHP FVHP840, 905, 906, FVHP FVHP615, 618, 620	720, 721, 722, FVHP725, 7 908, 910, 911, FVHP915, 9 GEAR IDLER ASSY	3n 83n		HS200 HS200	UNLOADING IDLER REWIND IDLER		£3. £4. £4. £6. £3.
1-439-289-21 KV 1-439-303-00 KV	-2704EC. 27040B. 2704ET 2704 -2215UB. 2217UB. 2215ET 2215F -2705F. 2705FE 2705UB. 2705E -2064EC. 20PS1. 2082ME7. 2056	2706UB. 2720EC SEC. 206 0SA.	£40.00	FVHP622, 710, 711, FVHF FVHP725, 730, 830, FVHP	720. 721. 722 840			HS306, 307, 318, 319 HS400, 410, 710 HS306, 307, 318, 319	SUPPLY REEL DISK TAKE UP REEL	522A00101 522A00102	£3.;
1-439-311-00 KV	-20025(ESF) -1440AEC -1440AS MK2, CPS-14(K-1350NF, KTK-1430UB	CD3. CPV-14CD2.	£22.75	FVHP615. 618. 620 FVHP622. 710. 711. FVHP FVHP725. 730. 830. FVHP	REEL 7-UP ASSY 720, 721, 722 840	FI1430410400	900 £5.50	HS400, 410, 710 HS320 HS337, 338, 411, 421	DISK REEL DISK REEL DISK	522006301	
1-439-332-21 KV 1-439-333-00 KV	-2064C. 20PS1. 2082ME7. 2056 -2062E(ESP) -1440AEC. 1440AS.MK2. CPS-14(K-1350NF. KTK-1430UB -2756. 2730E. 2730FE. 2764EC. -1882EC. 1882UB. 1882E. 1882C. 1882ME3. 1882HK. 1882AS. 1602M -19FT1A. 19FY1MT. 1862. 1602M	2752UB, 2752F H. 1882AEB, 1882AM,	£30.00	FVHP905, 906, 908, FVHP910, 911, 915, FVHP	GEAR IDLER ASSY 916, 918	F114 30490 402		HS300, 301, 302, 310 HS306, 307, 318, 319	PULLEY GEAR WHEEL	522P00601 522C05201 641D71101	£3.1 £5.1 £2.1 £1.5
1-439-363-21 KV	19HT1A 19FX1MT, 18G2, 1602N 2092UB, 2096UB	W7. 1602GE. ADM-16B.	£21.50 £22.00	FVHP975 980, 990 FVHP999, 5000, 5005 FVHP5050 5075 5100	IDLER	FI1430420400	700 £4.50	HS400 410, 710 HS306, 307, 318, 319 HS400, 410, 710	GEAR WHEEL	641071001	٤1.
	FLYBACK TRANSF	ORMERS		FVHD40, 55, 140 FVHP1, 10, 20 FVHP975, 980, 990	REEL DRIVE ROLLER GEAR		26.00	NEC N830. N831. N832. N833	TAKE UP CLUTCH		
FERGUSON 000-4208-001 000-4-208-002	TX9 TX9		£14.00 £14.00	FVHP975 980 990 FVHP420 520 530	CLUTCH	FI1430510404	£2.80	N830 N831 N832 N833 N830 N831 N832 N833	TAKE UP IDLER REEL IDLER		11. 11.
00D-4-235-002-01G 00D-4-247-001 00D-4-247-001 HT1	TX90 TX90 TX90		£14.00 £14.00 £14.00	FVHP420, 520, 530 FVHP990 VBS3500	TAKE UP IDLER LOADING GEAR REEL DRIVE PULLEY		£3.60 £2.00 £5.20	N895 N911, N915, N916, N917 N9012, 9013, 9014, 9016.	TAKE UP IDLER SMALL REEL DRIVE PULLEY 9033, 9034, 9054, 9055, 9	066 9110	£6.0 £5.5
06D-3-093-001 (110) 06D-3-087-001	TX100 TX100		£14.00 £14.00	VB\$3500 VB\$7000	IDLER REW IDLER		£3.00 £1.20	N9510. 9520. 9530. 9610 NATIONAL			
(110) 06D-3-084-001 06D-3-088-001	TX100 TX100		£14.00 £14.00	GOLDSTAR GHV1221, 1232, 1240	CLUTCH GEAR	435038A	£2.50	NV322 NV600. NV688 NV777. NV788. NV332. AC NV300. NV333. NV340	DLER UNIT 6100, 6200, 6800 6810	VXP0463	€2.7
GRUNDIG 29201-019-05			£8.00	GHV8200. 8210 8215 GH GHV1221 1232 1240	IDLER		£1.70	NV366 NV300 NV330, NV333	IDLER UNIT	VXL0997 VXP0401	£3.6
29201-024-11 29201- 02 4-04			£14.00 £14.00	GHV1241, 1242, 1243, GH GHV8200, 8210, 8215, GH	V1244, 1245, 1246, GHV12	47 1248, 8000.	21.70	NV340. NV366 NV300 NV330. NV333 NV340 NV366. NV8620	PLAY IDLER	VXP0433	£2.7
PHILIPS PS 140-17112	G11		£14.00	HINARI VXL3, VXL20	REEL IDLER	40000009	£1.50	NV300 NV332 NV333 NV340 NV366 NV600 NV	ACTION GEAR 7777 . NV788 . NV2000 . NV2	VDG0016 010. 3000. 7000	£0.6
PS 140-10306 PS 140-10353	G90AE G90B		£11.50 £15.50	VXL2 VXL4. VXL35 VXL4. VXL35	IDLER IDLER CLUTCH		£1.50 £2.75 £6.50	AG6010, AG6015 NV333, NV688, NV2000 NV3000, NV7800	LOADING GEAR	VXP0325	£2.0
PS 140-10151 PS 140-10283 PS 140-10246	K12 K30. K30111 K40		£15.00 £15.00 £13.00	VXL4. VXL12. VXL25 VXL30 VXL35 VTV300	LIMITER POST		£1.30	NV300. NV332. NV333.	INTERMEDIATE GEAR 7777. NV788. NV2000. NV2	VXG0017 010. 3000. 7000.	£0.6
PS 140-10247 PS 140-10149 PS 140-10161	KT4 KT2 KT3		£14.00 £9.00 £9.00	VXL5 VXL6 VXL5 VXL6 VXL7, VXL8, VXL9	CLUTCH GEAR HOLDER CLUTCH		£3.75 £3.50 £3.80	NV330, NV333, NV340	CAM GEAR	VXG0158	£1.0
PS 140-17033 PS 140-17089	G8 G9		£9.00 £10.00 £10.00	HITACHI		6879515		NV366. NV2777. NV788 NV230. NV250. NV260 NV280. NV370. NV380. NV NV630. NV650. NV730. NV NVG7. NVG9. NVG10. NVG NVG30. NVG400. AG1000.	IDLER ARM (430. NV450. NV460. NV46	VXP0521 5. NV470. NV480	£1.7
PS 140-10328	NC3		£14.00	VT11-33 VT63-64 VT14 17 19 38 57 86 8 62 65 85 330 640 VT16	S		€7.50	NVG7, NVG9, NVG10, NVG NVG30, NVG400, AG1000,	i11. NV G12. NVG14. NV G15 AG1 200 . 1500. 1810. 2100	. NVG16 VG18	
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HITACHI 2432981 2434274	CPT 1444 CPT 2174 CPT 2176		€15.00	VT8500-8700 VT8000-8300, 7000 VT8500-8700	PLAY IDLER	6414221	£3.60	NV2000. 2010. 3000 NV2000. NV3000 NV7000. 7200. 7800	IDLER UNIT CAM GEAR IDLER UNIT	VXP0329 VDG0069 VXP0344	£1.0 £1.0 £1.0
DUTPUT TV MODULE	CPT 2178 HM6251 (REF 2370551))	£18.00 £5.50	VT8000-8300, 7000 VT8500-8700 VT9300-9500, 6500	FF-REW PULLEY FF-REW IDLER	6383531	08.02	NV7000, 7200, 7800 NV8150, 8200, 8300 NV8400, 8600, 8610, 8620	CLUTCH IDLER UNIT	VXP0343 VXP0245	£1.0 £1.0 £1.0 £1.0 £4.0 £0.9
INIE	RS & PULLEYS REP	ACEMENTS	€5.50	VT680, 6800, 9700, 9900 VT9300-9500, 6500	PLAY IDLER	8681471 6861482	£3.30 £3.20	NV8200, 8400, 8600 NV8610, 8620	PLAY IDLER	VXP0243	9,03
AKAI VS1-2, VS4-5, VS15	FF-REW IDLER	M1327773	04.50	VT680, 6800, 9700 VT9900 VT9300-9500, 9700	IDLER	6861481 681505	£3.00	NV8620 NV332, NV600, NV688 NVG20 NVG21, NVG25	CLUTCH IDLER PULLEY UNIT	VXP0343 VXP0488 VXP0767	£4.0 £3.5 £5.0
VS3 6. 12. 56. 58. 59 VS1-2. VS4-5. VS15	T-UP IDLER	BV327815	£4.58 £6.00	VT9900 6500. 680 6800	IDLER	687043	£3 80	NVG40. NVG45 NV230. NV250. NV280	WORM WHEEL	VXP0604	£2.0
VS3, 6, 12, 58, 59 V9700 VS125, 126, 155	IDLER IDLER ASSY	BV321979 MZ366960J2	£6.00 £11.00	VT11-33 VT63-64 VT14 16S, 17 19 34, VT3 VT65 85, 86 88, 330 640		6886971	€1.50	NV430. NV450 NV460 NV NV870. NV890 AG1000 NV370. NV380. NV630	465. NV650. NV730. NV770 IDLER	VXP0523	£3.5
VS165, 240, 244, 245, VS22, 38, 105, 112, 11 VP7100, VS9300	247, 248, 250, 512, 515, 516 5, 116, 205, 220			VT100 110. 111 113 VT115 118 118 120 125. VT175 220 225 250. 255.	FF-REW ARM 128, 130, 135, 138, 145, 1 258, 260, VTI 30	6886792 50	£2.75	NV780 NV830 NV370 NVG7. NVG11 NVG12	CLUTCH GEAR WORM WHEEL	VXP0595 VXP0691	£1.00 £1.50
VS9500 VS9800 VP7100 VS9300	T-UP IDLER UNLOAOING	PU47752 PU46381	£4.50 £4.00			6897 09 4	£1.30	NVG14 NVG15 NVG18 NV NV2000 2010 3000 NV7000 7200 7800 8050	VG30. NVG120. NVG130. N LOADING GEAR	/G400, NVH70 VDG0035	20.60
VS9500 VS9800 VP7100 VS9300 VS9500 VS9800	IDLER REW IDLER	PU46380	00.83	VT414 415 418. 420 425 VT438 450 498 510, 518. VT536, 540 545 546, 548 VT588 VTM625, 626, 630	570 575 576 580, 585 635 636 640, 64 5 646, V	TS80. 8 5		NV230 NV250 NV370 NV430 NV450 NV460 NV NV830 NV890 NVG7 NVG	LOADING GEAR 630, NV730, NV770, NV780	VXP0520 . NV810.	€1.50
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AMSTRAD		7702.702	14.25	VT9700, 9900 HITACHI TV				NV465. NV630 NV650 NV NV870. NV890 NV2000 N NVG14. NVG15 NVG18. NV	/2010 - /200, /800, NVG7, I	VVG10. NVG12	
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- 2 Channels

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3 Channels
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SPECIFICATION

- SPECIFICATION

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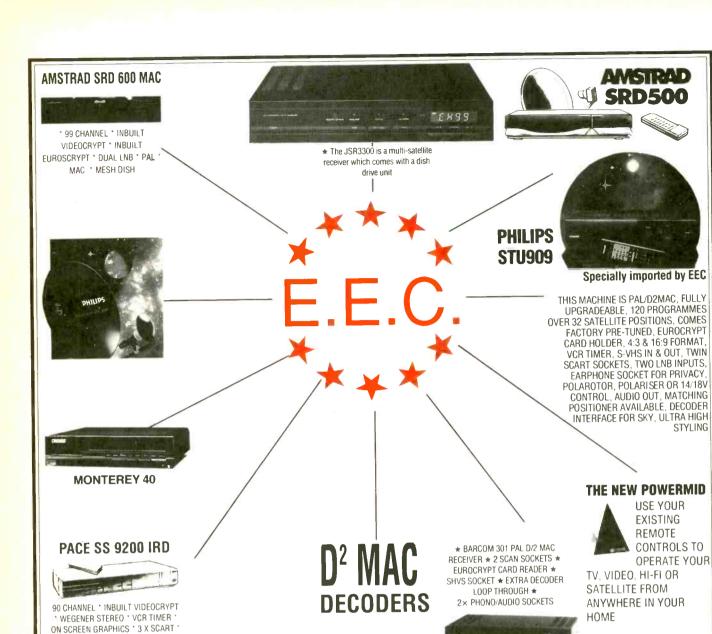
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315MA 500MA 630MA 800MA TDA2653A0 1A 16A, 2A 2.5A 3 15A 4 TDA3330 5A 6.3A, BA 1.20 TDA3560 20mm 0.B (pkts of 10) 500MA TDA3561A 530MA 800MA, 1A, 16A, 2A TDA3562A (TFK) 2.5A, 3.15A 60 TDA3565 TYPE VCR40000 FILE TYPE VCR40000 FILE TYPE VCR40000 FUNCATION 1.95 Belt Kir 1.95 Capacitor Back-up 1.85 Reel idler Pinch Roller 3.95) Video Head	5.50 Saisho C 3.50 Sharp C 4.50 WE 4.95 LO.P. 5.35 PANA 3.95 F	T141R	G11 Remote KT3 Remote KT4 CTX Remote Sony KV1612 Rei Sony KV2022 Rei Thorn Universal NIC LRES PRICE 11.50 1.95	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	Sony RM615-632 Sony RM670 Tatung RC40-45 Tatung RC60 Tatung RC70 Toshiba CT995-6 IDEO SPARES PRICE 12.95 16.95 4.95	12.95 TIP-11C 14.95 TIP-12C 14.95 TIP-12H (T0167V) 14.95 ZSC3156 12.50 2SD1398 16.95 7812 VIDEO BELT KIT TYPE Akai VST35 Amstrad 6000 Hinan VXL3-2C	S PRICE 1.95 1.95	Saryo VHR2300/3200 Saryo VHR2300/3210 Saryo VC9300/381/481 14 75 Sharp VC581 681 14 1.95 Sharp VC581 681 17 2.95 Sharp VC787 14 50 Toshiba V73/838 18 SERVICE AIDS TYPE Annex 17W Iron Annex 25W Iron Circlip Kit 5	7.50 9.50 1.50 1.50 1.50 1.95 1.95 1.95 1.95 1.75 1.95
315MA 500MA 630MA 800MA TDA2653A0 1A 1 6A, 2A 2.5A 3 15A 4 TDA3330 5A 6.3A 8A 1.20 TDA3561A 50MA 800MA, 1A, 1 6A, 2A TDA3561A 50MA 800MA, 1A, 1 6A, 2A TDA3562 (TFK) 2 5A, 3 15A 60 TDA3565 TYPE PRICE TYPE VCR4000 PRICE TYPE FVH5000 Beit Kir 1, 95 Eet Kir Capacitor Back-up 1.85 Reet lotler Princt Roller 3.95 Reel older 3.95 Reel older 3.95 Reel Filley 1.95 Beit Kir 1.95 Reel Filley 1.95 Reel Fil	b.50 Saisho C 3.50 Sharp C 4.50 Sharp C 4.95 Wit 4.95 L.0.P. PANA 3.95 PANA 3.95 PANA 2.56 SPARES 2.56 SpARES 19.93 SPARES	77141R/RA 18.50 14:00 24.95 E CAN ALSO SUPPLY - T'S FØR NEC'. NIKKAL SONIC & SONY PLEASE RING FOR DETAILS PANASOI TYPE 10 NV333-366 0 Repair Kit Genuine Belt Kit Pinch Roller - Play kilder Genuine	G11 Remote KT3 Remote KT4 CTX Remote Sony KV1612 Rei Sony KV2022 Rei Thorn Universal NIC IRES PRICE 11.50 1.95 3.95 4.95	1.75 1.75 1.75 1.75 note 3.95 note 3.95 note 3.95 PHILIPS VI TYPE VR6462/6560 Repair Kit Cassette Housing Reel Idler Genuine Video Head Genuin	Sony RM615-632 Sony RM670 Tatung RC40-45 Tatung RC50 Tatung RC70 Toshba CT995-6 IDEO SPARES PRICE 12.95 16.95 4.95	12.95 TIP-11C 14.50 TIP-12C 14.95 TIP-12H (T0167V) 14.95 TIP-179LA 14.95 25C3156 12.50 25C3156 12.50 7812 VIDEO BELT KIT TYPE Amistrad 6000	S PRICE 1.95 1.95 1.95 3.50	Saryo VHR2300/3200 Sahary VG390/381/481 175	7.50 3.50 4.50 4.50 2.50 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95 4.95
315MA 500MA 630MA 800MA TDA2653A0 1A. 16A, 2A 2.5A 3 15A 4 TDA3330 5A 6.3A 8A 1.20 TDA3560 20mm 0/B (pkts of 10) 500MA TDA2561A 630MA 800MA, 1A, 1.6A, 2A TDA3562 (TFK) 2 5A, 3 15A 60 TDA3565 **TPE VCR4000 Belt Kit 1, 95 Belt Kir Capactor Back-up 1.85 Reel Idler Pinch Roller 3, 95 Video rlead Reel Idler 3, 95 Video rlead Video Head 16, 95 Belt Kir Video Head 16, 96 Clutch Aspent VCR5000 VCR5000 Pinch Roller 1, 95 Belt Kir VCR5000 Pinch Roller Pinch Roller Reel Idler Pinch Roller Reel Idler Roller Reel Idler Roller Reel Roller Roller Reel Roller Roller Reel Roller	b.50 Saisho C 3.50 Sharp C 4.50 Sharp C 4.95 Wit 4.95 L.0.P. PANA 3.95 PANA 3.95 PANA 2.56 SPARES 2.56 SpARES 19.93 SPARES	7T141R/RA 18.50 14:00 24.95 E CAN ALSO SUPPLY - T'S FØR NEC'. NIKKAL SONIC & SONY PLEASE RING FOR DETAILS PANASOI TYPE 0 NV33/366 0 Repair Kit Genuine Belt Kit Pinch Roller - Play Idler Genuine 5 Reel Idler Genuine 6 Reel Idler Genuine 7 Video Head NV333	G11 Remote KT3 Remote KT4 CTX Remote Sony KV1612 Re Sony KV2022 Re Thorn Universal NIC RES PRICE 11.50 1.95 3.95 4.95 1.25 8.95	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	Sony RM615-632 Sony RM670 Tatung RC40-45 Tatung RC50 Tatung RC70 Toshiba CT995-6 IDEO SPARES PRICE 12,95 16,95 4,95 ne 44,50	12.95 TIP-11C 14.95 TIP-12C 14.95 TIP-12H (T0167V) 14.95 2SC3156 12.50 2SD1398 16.95 7812 TYPE Akai VST-35 Amstrad 6000 Hinari VXL-3-20 Hinari VXL-3-20 Mitsubishi HS302 Mitsubishi HS306	S PRICE 1.95 1.95 1.95 3.50 1.95 1.95	Saryo VHR2300/G200 Saryo VHR2300/G200 Sharp VG380/G811481 75 Sharp VG380/G81481 141.95 Sharp VG787 12.95 Sorry C58167 142.95 Sorry C5867 143.95 Sorry C5867 144.95 SERVICE AIDS TYPE Antex 17W fron 8 Antex 25W fron 8 Antex 25W fron 8 Clear Test Tape 7 Onyx Solder Pump 9 Dnyx Tips 9 Ent Torch 1	7.50 9.50 1.50 1.50 1.50 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95
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NIKKAL SONIC & SONY PLEASE RING FOR DETAILS PANASOI TYPE 0 W333:366 0 Repair Kit Genuine Belt Kit - Pinch Roller -	G11 Remote KT4 CTX Remote Sony KV2022 Re Thorn Universal NIC IRES PRICE 11.50 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95	1.75 1.75 1.75 1.75 1.75 mote 3.95 mote 3.95 1.00 PHILIPS VI TYPE VR5462-6560 Repair kir Cassette Housing Reel dider Genuire Video Head Genuir VR6467 Repair kir Genuine Belt Kir Cassette Housing Pinch Roller Arm Video Head Genuir VR6760 Sepair kir Genuine Belt Kir Cassette Housing Pinch Roller Arm Video Head Genuir VR6760 SANYO VII VIC5000 SANYO VII VIC5000	Sony RA615-632 Sony RA615-632 Sony RA670 Tatung RC40-45 Tatung RC70 Toshiba CT995-6 IDEO SPARES PRICE 12,95 16,95 16,95 14,95 ne 44,50 2,50 17,95 18,95 17,95 18,95 17,95 18,95 17,95 18,95 17,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 18,95 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8300 VIDEO LAMPS Amstrad 7000 Ferguson 3V00 22 Ferguson 3V29	S PRICE 1.95 1.95 1.95 3.50 1.95 2.95 2.95 2.50 2.50	Saryo VHR2300/G200 Saryo VHR2300/G200 Sharp VG390/G814481 1475 Sharp VG581 681 141 1.95 Sharp VC581 681 141 1.95 Sharp VC787 2.95 Sharp VC787 2.95 Toshiba V73/838 18 SERVICE AIDS TYPE Annex 17W Iron Annex 25W Iron Cricip Kit 5 Clear Test Tape 7 Omyx Solder Pump Dmyx Tips 1 Pent Torch 1 Portasol Trip Cortasol Professional Portasol Trip Solda Mop Solder 0.5KG 8 Solda Mop Solder 0.5KG 8 Spring Kit Video Fault Finding Guide 8	7.50 9.50 1.50 1.50 1.50 1.50 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 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NIKKAL SONIC & SONY PLEASE RING FOR DETAILS PANASOI TYPE - W333/366 - Repair Kit Genuine Belt Kit - Pinch Roller - Piay Idler Genuine - Reel Idler Genuine - Belt Kit - Mode Switch - Pinch Roller - Pinch Roll	G11 Remote KT4 CTX Remote Sony KV2022 Re Thorn Universal NIC RES PRICE 11.50 1.95 3.95 4.95 1.25 8.95 1.95 3.95 5.995 10.95 3.95 3.95 3.95 3.95 3.95 3.95 3.95 3	1.75 1.75 1.75 1.75 1.75 mote 3.95 mote 3.95 1.00 PHILIPS VI TYPE VIR5462/6560 Repair kin Genuine Belt Kir Cassette Housing Reel dier Genuine Video Head Genuin SANYO VII VICS000 Belt Kir Reel Motor Genuin Reel Pultey Genuin Video Head	Sony RA615-632 Sony RA615-632 Sony RA670 Tatung RC40-45 Tatung RC70 Toshiba CT995-6 IDEO SPARES PRICE 12.95 16.95 14.95 16.95 14.95 16.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 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Sharp 8300 VIDEO LAMPS Amstrad 7000 Ferguson 3V00 22 Ferguson 3V29	S PRICE 1,95 1.95 1.95 3.50 1.95 2.95 2.95 2.50 2.50	Saryo VHR2300/G200 Saryo VHR2300/G200 Sharp VG390/G814481 1475 Sharp VG581 681 141 1.95 Sharp VC581 681 141 1.95 Sharp VC787 2.95 Sharp VC787 2.95 Toshiba V73/838 18 SERVICE AIDS TYPE Annex 17W Iron Annex 25W Iron Cricip Kit 5 Clear Test Tape 7 Omyx Solder Pump Dmyx Tips 1 Pent Torch 1 Portasol Trip Cortasol Professional Portasol Trip Solda Mop Solder 0.5KG 8 Solda Mop Solder 0.5KG 8 Spring Kit Video Fault Finding Guide 8	7.50 9.50 1.50 1.50 1.50 1.50 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 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NIKKAI, SONIC & SONY PLEASE RING FOR DETAILS E PANASOI TYPE - W333/366 0 Repair Kit Genuine Belt Kit - Pinch Roller - Play Idler Genuine - Widen Head NV336 - Widen Head NV366 - Widen Head	G11 Remote KT4 CTX Remote KT4 CTX Remote Sony KV2022 Re Thom Universal NIC RES PRICE 11.50 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95	1.75 1.75 1.75 1.75 1.75 1.75 mote 3.95 mote 3.95 1.00 PHILIPS VI TYPE VIR542/650 Repair kin Genuine Beit Kirl Cassette Housing Reel dier Genuine Video Head Genuir SANYO VII VICS000 Belt Kirl Reel Motor Genuin Video Head Video Head Video Head Video Head Video Genuir Video Head Video Genuir Video Head	Sony RA615-632 Sony RA615-632 Sony RA615-632 Sony RA670 Tatung RC40-15 Tatung RC70 Toshiba CT995-6 IDEO SPARES PRICE 12.95 16.95 16.95 16.95 17.95 18.95 17.95 19.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 17.95 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Tips 10 Pent Torch 11 Portasol Try Portasol Try Solder Osk Spring Kit Video Fault Finding Guide **SPECIALS** PHILIPS UNIVERSAL REMDTE CREDIT CARD Size PHULIPS UNIVERSAL REMDTE CREDIT CARD Size **SPECIALS** **SPECIALS** **SUNDRIES** CTX EHT Lead Genuine Total Try Matsu Lever Assy 11	7.50 9.50 1.50 1.50 1.50 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 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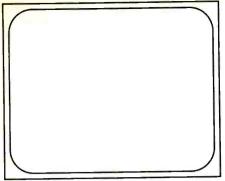
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COVER PHOTO

This month's cover photograph shows a set fitted with the Ferguson TX90 chassis: see servicing article on pages 786-791.



TELEVISION

Excessive Pessimism?

It seems that this column has a bit of a reputation for being pessimistic. Well, the situation over the past couple of years hardly justifies anything else: one prolonged, deep recession. There can be no point in pretending that things are other than they are. But your committed pessimist will be pointing to the dangers ahead when others are making the best of the good times. When might a bit of optimism be justified?

There's no little bell that rings to tell us that an upturn has started - likewise no little bell indicates that the peak of an expansionary period has been reached. It's often very difficult to tell when an economy has started to move from one state to the other. The experiences of different firms can vary widely. Some firms continue to do well even when conditions are extremely difficult. Alba for example managed to achieve a twenty per cent profit increase in the year ending on March 31st, with just a very small decrease in turnover. Profits would have been up 73 per cent had not Hinari Deutschland, which has now been closed down, contributed a substantial loss. In the UK the Alba, Bush and Hinari brands all recorded strong performances. But Alba is the exception and no one seems to be particularly optimistic just now. One problem in assessing the situation at any point in time is the fact that the statistics are always out of date. They tell us roughly what was happening say a couple of months ago, not what's happening right now let alone what might be happening in a couple or six months' time. Government and other forecasters take these lagging indicators and project them forwards. That's one reason why they make so many mistakes, some really bad. This is why greater emphasis is nowadays being placed on surveys carried out by organisations such as the CBI. At least businessmen should know what the current state of their order books is, what enquiries they are getting that are likely to lead to future business and how their stocks stand. But their guesses about what the situation will be like in say six months' time are unlikely to be much better than anyone else's. And like anyone else they can be pessimistic, especially when the hoped-for upturn continues to falter.

Company news of late has not been exactly encouraging. Dixons reported a profit fall of fourteen per cent for the year to May 2nd, but this was largely due to the extraordinarily difficult conditions experienced by its US offshoot Silo. In the UK Dixons recorded an increase of a third in operating profits to £71.9m on sales eleven per cent higher at £1.2bn. Sales of consumer electronic products in general remained weak, the improvement being seen in computer games, business computers and camcorders. Now for the pessimistic bit. In January Stanley Kalms reported that consumers in some parts of the country were showing considerable enthusiasm, with sales increases running in the "mid-teens". In early July he reported that sales over the previous nine weeks had weakened, though they were still "slightly ahead" of last year. He saw no real signs of any sustained economic upturn in either the UK or the USA.

Dixons may have done reasonably well out of computers but for Amstrad this has been something of a disaster area, largely responsible for losses that are likely to be around £65m in the year to June 30th against taxable profits of some £20m in the previous year. The company mentions plummeting personal computer prices and weak demand. It did well on the satellite TV front however, selling some 950,000 receivers during the year, but expects to remain in overall loss in the coming year to June 1993.

The High Street has seen little improvement in trading conditions so far. With interest rates remaining high and the chance of mortgage rate increases, also a continuing increase in unemployment, there is little reason to expect much of an improvement in the immediate future. One problem is that lack of consumer confidence tends to be a self-sustaining factor. Purchases put off represent poorer prospects for others' incomes. This feeds through to the banks who see poorer business prospects and in consequence become increasingly reluctant to lend as their worries about being paid back increase, and so on. It's all too easy to be pessimistic.

The main cause of all this worry is the excessive borrowing that occurred during the last boom, much of it based on expectations arising from asset inflation (rising house prices), a factor that's gone into reverse. This sort of thing corrects itself eventually. The problem is the damage that occurs in between the start of a recession and the start of an upturn. Things tend to get progressively worse the longer it takes for the upturn to start. Once it does, the mood can change rapidly and dramatically. It's then that us pessimists start to worry about when things will get worse again!

TV Fault Finding

Reports from Philip Blundell, AMIEIE, John C. Priest, Ed Rowland, John Edwards, Stephen Leatherbarrow, Michael Dranfield, Roger Burchett, Roy S. Porter, J.S. Ruwala, Adrian Farnborough and S.R. Dixon

Philips CP90 Chassis

This set was dead with no activity at all from the power supply. Initial checks showed that there were no short-circuits across the outputs, also that there was no start-up voltage (normally 2·1V) at the collector of transistor 7673 in the chopper control circuit. This transistor was being turned on because the optocoupler was leaky. A new CNX62 restored normal operation.

P.B.

Grundig CUC720

The job card said "on/off switch faulty". It wasn't, of course, though the power supply was dead. There was 300V at the collector of the chopper transistor and needle drive pulses were present, but there was no output to speak of – about 2V on the 150V line. Voltage checks around the TDA4600 chopper control chip showed that the 4.3V reference voltage at pin 1 was missing. C642 (100µF) was opencircuit.

Philips 2A Chassis

Here's a cautionary tale – don't always believe the circuit diagram! This set had been to another dealer because it was dead. He had solved that problem but then found that the picture was too wide and couldn't be adjusted. He'd tried everything! The line output transformer, coils 5601 and 5611 and all the capacitors in the relevant sections of circuit had been replaced. The resistors had all been removed and checked out of circuit. The transistors in the EW correction circuit had also been replaced.

To check that the correct parts had been fitted I compared the faulty set with a stock one. The stock set didn't have a capacitor in the 2608 position. When this capacitor was removed from the faulty set the picture size was brought back to normal. Just because a capacitor is shown in the circuit diagram doesn't mean that it was fitted in later production!

P.B.

Toshiba 285T8BZ

Here's a warning about jumping to conclusions. We had two of these sets in with very similar fault symptoms but different causes. The first one came in under warranty with acute field overscan - about 200 per cent. Even with the vertical amplitude control turned to minimum the field scan was excessive to the extent of about 50 per cent. The linearity wasn't much to write home about either, with cramping at the bottom of the screen. A look at the circuit diagram showed that the TA8659N chip IC501 on the main board is responsible for most of the signal processing. It produces field drive pulses at pin 29 for feeding to pin 1 of the TDA8170 field output chip IC303 on the power/deflection panel. Height and linearity are controlled by feedback to pins 31 and 32 respectively of IC501 from RC networks in the scan current path. There's a height control (R351) connected to pin 31 but no linearity control.

Our first suspects were the zener diodes D814 and D815 connected to pins 29 and 31 of IC501. I've had them cause scan problems in other Toshiba chassis but this time they

were o.k. The voltages at pins 31 and 32 were low, pin 32 being at 2.7V instead of 6.6V. As the components in the feedback network all seemed to be o.k. when checked I began to suspect IC501 itself. As this is a 64-pin device however I decided to check IC303 and its few peripheral components first. All were o.k. After a brief word with Toshiba to confirm my suspicions I ordered a replacement TA8659N chip. Fitting this restored correct field scan amplitude and linearity.

The second set came in a few days later. We were about to order another TA8659N chip when we noticed that this time the overscan wasn't quite so bad - only about 150 per cent. So we started to check the discrete components. Everything was all right until we came to transistor Q363 (BC547A) on the power panel. Its emitter voltage was high at 6.6V instead of 0.3V. When it was removed for test we found that there was emitter-collector leakage. A new transistor restored normal operation. One odd thing: the circuit shows that there's a direct connection between the collector of this transistor and pin 31 of IC501, but under the fault condition there was a difference of nearly 0.5V between the two points though a cold resistance check produced a reading of zero ohms.

Cathay CTV3000

The owner of this colour portable complained that the picture had been distorted since we repaired his VCR. On test we found that the sound was o.k. but there were two hum bars on the screen. It was nothing to do with the VCR of course. Replacing the main smoothing block C507 (100µF, 400V) cured the fault.

Ferguson TX9 Chassis

This old set produced a perfectly good picture but the sound was badly distorted. Experience suggested that this was quadrature trouble: slight adjustment of L62 restored normal sound.

E.R.

Akai CT2870

Results were perfectly all right when this set was switched on. After about half an hour however it developed crackling on sound. An assault on suspect components with a can of freezer suggested that the APU2470T chip IC3201 was the culprit. There was no further trouble after we'd fitted a replacement.

E.R.

Hitachi CPT2240

No sound was the result of R462 (22 Ω) having gone open-circuit. **E.R.**

Saisho CT149TXA

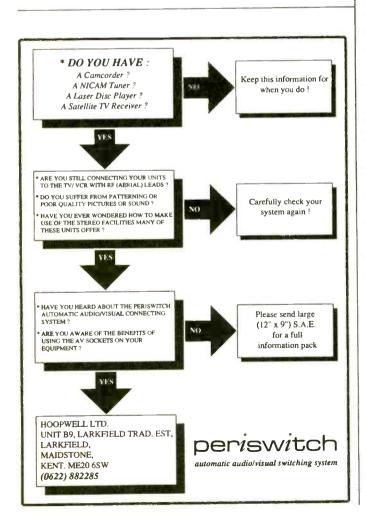
This fault caused some consternation with much meeting of eyebrows. The basic problem was intermittent failure to start from cold. Checks showed that at switch on the line drive waveform was of low amplitude and distorted. You

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could then see it slowly correct itself in both shape and amplitude. The cause of the trouble was R414. Heating and freezing it altered the value from the normal $15k\Omega$ by some $5k\Omega$.

Ferguson TX100 Chassis

This set was fitted with the PC1564-311 remote control/sweep tune panel. The fault was no signals, with the 30V rail measuring just that. Tuning is carried out by the M293B1 chip IC2001 which has a 455kHz crystal connected across pins 13 and 14. The crystal oscillator was working normally and the two 5V regulators on the panel were both o.k. The next check should be at pin 19, which was ramping correctly under the action of the tuning system. A check on transistor TR2018, which produces the tuning voltage from this ramp, proved that it was open-circuit. A BC639 turned out to be a suitable replacement.

While the channels could now be tuned in, pressing the store button made them disappear again! I eventually found that there was a splash of solder across pins 5 and 6 of PL175. This effectively shorted pins 22 and 24 of IC2001 when store was pressed, initiating the search down command. Some stupid engineer had probably done this when he changed TR2018. We get there in the end – sometimes.

Hinari CT5

The usual cause of a dead set is failure of the remote/standby supply transformer. This set was no exception but after fitting a replacement we found that it was stuck on ch. 8 and that no analogue or tuning functions worked. The relevant circuitry is mounted on the front panel, which is a real pain to remove and refit and just about impossible to work on. The cause of the trouble was several open-circuits between the front panel and the small analogue function panel to which it is, or should be, hard wired.

S.L.

Finlux 51590

The fault on this set, which uses the TDA4600 type power supply, would put in an appearance about ten minutes after it had been switched on. The set would then either trip and go dead or the picture size would reduce after which the set would go dead. We found that CU15 (100µF, 50V) was open-circuit. It's one of the yellow electrolytics that regularly cause problems in Grundig chassis. In view of this I decided to change the other 100µF capacitor of the same type in the power supply (CU13).

Toshiba 210R6B

Dry-joints on the scan coil plug (socket connections to the main PCB) seem to be common on these sets.

R.B.

Rediffusion Mk 3 Chassis

The fault was intermittent absence of the signals, curable by a good thump on the cabinet. Not an unusual fault, but we'd spent some time resoldering the power supply and line scan panels as the original report was that the set was dead. Plug and socket OPLA on the signals panel was next accused. We cleaned and resoldered it but the owner still had to resort to a good thump occasionally. What finally seems to have cleared the fault is to have cleaned the pins and the holder of the TCA270S demodulator chip 0IC1.

With another of these sets the cause of intermittent fuse blowing was traced to poor joints on the commutating coil in the thyristor line output stage.

R.B.

Sony 21XMU (AE1 Chassis)

There was sound but no picture. When the first anode voltage was varied a faint picture was noticed at one point but it then disappeared. We found that the RGB signals were missing at the c.r.t. base panel. Lots of tests were then carried out on board B. The sandcastle and blanking pulse waveforms were both present and correct. When we checked the beam limiter circuit we found that transistor Q801 wasn't conducting, its collector being at 12V while its base was at -2.4V. Bias resistor R812 (68k Ω) turned out to be open-circuit.

You get a similar fault with the Ferguson TX90 chassis when R231 (150k Ω) goes open-circuit. The symptom is very low contrast however. On Sony sets diagnosis is more difficult as the fault tends to cut off the picture completely. J.S.R.

JVC 7255UB

The symptom with this set was excessive brightness with flyback lines. The picture was very faint and dull. Turning the first anode voltage down made no difference. On checking the collector voltages of the RGB output transistors we found that they were all very low at 60V even with no signal. Feed resistor R831 (47Ω) in the supply had gone very high in value, a replacement curing the fault **J.S.R.**

Bush 2521T

This set displayed a faint blank raster with flyback lines, noticeable only when the first anode supply was at maximum. Changing the TDA3561A colour decoder chip IC500 made no difference so the service manual was ordered. It was of little help as it gave only the supply voltages and alignment waveforms. The technical description was also poor. After spending considerable time elsewhere in the circuitry and contacting Bush Technical we replaced IC500 again. The blank raster was now much brighter. A check on the voltages at the output plug K501 then revealed that there was no connection to chassis at pin 5 - the reading here was 11.5V. We found that there was a dry-joint on an earthing link connected to this pin. As a result IC500 had been destroyed. Repair and replacement solved our headache. S.R.D.

ITT Monoprint B Chassis

Having been left off overnight this set wouldn't power up without multiple pressings of the on/off switch. The TEA2165 chopper control chip IC701 (TEA2162 in some versions) was shutting down because of inadequate negative bias at pins 4 and 5. C704 (47 μ F) was the cause, being unsatisfactory at low temperatures. You could see the ripple across it change when freezer was applied.

Three months later the symptom reappeared. This time the mains bridge rectifier's reservoir capacitor C701 ($4.7\mu F$) was found to have 100V peak-to-peak across it when cold, a replacement curing the fault. R.S.P.

Mitsubishi CT2146TX (Euro 6 Chassis)

We've sold a substantial number of these sets and have found them to be reliable. One came back recently however with a peculiar fault. The symptoms were intermittent shutdown and a poor response or none at all to commands from the remote control handset. When we ran the set on the bench we found that it seemed to have two modes of operation. In one mode it would run normally, with everything functioning. It would then shut down and come on again, after which the remote control system didn't work. We noticed that the on-screen graphics were corrupted in this latter mode.

We made a start by carrying out checks around the microcontroller chip IC701. As the 5V supply at pin 52 had ripple on it we added a small decoupling electrolytic. This cleaned up the graphics and the remote control system now worked perfectly. So we went back to the 5V regulator chip IC951. After disconnecting our temporary electrolytic we heated and froze IC951. This enabled us to make the fault come and go at will. IC951 was therefore replaced and the set ran perfectly for a week. The symptoms then returned, exactly as before. Once again the regulated 5V supply was found to be low with ripple on it. On probing around the 5V standby supply we found that C960, the reservoir capacitor that provides the input for IC951, was dry-jointed. Fitting a replacement provided a complete cure.

Toshiba 285T8BZ

The symptoms with this set were reduced width and line foldover, accompanied by an arcing sound. The fault could be rectified by tapping the cabinet. A visual check on the power supply/deflection panel showed that there was noticeable discoloration beneath the line scan correction capacitor C363. So C363 was refitted in conveniently placed adjacent holes. This seemed to provide a complete cure – or did it? The set worked until text was selected, revealing severe raster distortion. We then found that the controls associated with the TEA2031A EW scan correction control chip IC361 had no effect. Scope checks showed that a field-rate sawtooth waveform entered this chip, but there was no EW drive output at pin 5. This output drives the EW modulator diodes via the loading coil L362.

Full of confidence we ordered and fitted a new TEA2031A chip. But the symptoms remained as before. There was one slight change however: a most peculiar linerate waveform, with no field-rate component, could be seen at pin 5 of the chip. Remembering problems with the EW modulator in the ITT CVC30 chassis we decided to remove L362 and recheck the waveform. It was now correct. So L362 could well be responsible for the problem. As we didn't have a replacement we hooked in an ITT loading coil (L24 from the CVC30 chassis) to prove the point. Everything now worked correctly. Close examination of L362's winding showed that there was slight darkening, but it was not very obvious. Fitting the correct replacement completed the job. One can only surmise that if the two faults were linked then the arcing associated with C363 had probably caused the failure of L362.

ITT CVC1200 Chassis

It's common to get a dead set with the on-board fuse blown because C701 (4.7μ F, 350V) is short-circuit. **J.E.**

Philips 2A Chassis

A dead set with no standby or channel indicators alight is becoming a common fault. You find that the mains fuse and the 1Ω surge limiter resistor 3654 are open-circuit while two of the bridge rectifier diodes, also the BUT11A chopper transistor 7687 and the CNX62 optocoupler 7668, are short-

circuit. After replacing these components check for a short-circuit reading across the 280V reservoir capacitor 2659. If all seems to be well the set can be switched on with confidence. On one occasion I found that the 1N4148 diode 6689 was also short-circuit.

J.E.

Philips K40 Chassis

This set appeared to be dead though the power supply, on a separate PCB beneath the tube, was working. In fact the line timebase wasn't working as there was no drive from pin 11 of the TDA3576B timebase generator chip IC7200. Fitting a new TDA3576B put matters right. We've had the identical symptoms due to the line driver transistor's collector feed resistor being open-circuit. It's on the previously mentioned power supply PCB. When it goes open-circuit there's no voltage on the BF819 line driver transistor's metal collector tab: I mention this because it's a quick, easy check to make before getting too involved.

J.E.

Alba CTV2

This set's power supply had destroyed itself. The BUV46A chopper transistor TR3 was short-circuit while resistors R97 (4.7 Ω), R92 (1.5 Ω), R93 (1.5 Ω), R86 (4.7 Ω) and R79 (4.7Ω) were charred and open-circuit. The circuit I was able to obtain from Alba was so poor that the above component values had to be obtained by phone - no charge was made for it however. We replaced the TEA2018A chopper control chip IC5, checked all the diodes in the power supply circuit and fitted new resistors as necessary. When we switched the set on it worked normally and we were able to adjust the h.t. for the correct reading of 102V at the cathode of D17. Alba told me that they supply a power supply modification kit for this model. It contains TR3, IC5, numerous resistors and details of how to modify the circuit board. We ordered the kit in case we should need it but don't know how successful we'll be in using it as the circuit is again unreadable.

Ferguson TX100 Chassis

When we switched this set on the relay clicked but the set remained dead, with no standby or channel indicators alight. A check was made on the voltage at the collector of the BU508A line output transistor TR10. It was low at only 80V. The cause of the trouble was the 119V supply reservoir capacitor C121 ($47\mu F$, 160V).

Hitachi CPT2050 (Salora J Chassis)

The fault symptom was intermittent green faces. This chassis uses a TDA3562A colour decoder chip, with the PAL switching controlled by the sandcastle pulses. As the pulses didn't change when the fault was present we suspected the TDA3562A, but a replacement made no difference. Neither did replacement of the components connected to pin 2. While we were studying the fault we noticed that the field height increased when the ident dropped out. This was the clue that led us to the cause of the fault.

The TDA2653A field timebase chip detects the frequency of the sync pulses, either 50Hz or 60Hz, putting out a voltage at pin 12 to adjust the height and switch the colour decoder chip to NTSC operation as appropriate. For PAL operation the voltage at this pin must be zero. When it rises above 12V the set changes to NTSC operation. In this particular set the voltage at pin 12 varied intermittently. Fitting a new chip restored correct operation. M.Dr.

Servicing the Ferguson TX90 Chassis

Nick Beer

This chassis was used in only a small number of models but. due to the massive popularity of some of them, the sets are frequent visitors to the workshop. A particularly common model is the 14in, portable 37140 and its remote control version, the 37141. A few badge engineered versions are encountered, for example the Logik Model 4090. One of the most common problems is dry-joints in the field output stage, something that's been referred to in these pages on several occasions. Quite a collection of faults will be listed in the present article, which is based on many years' experience with these sets - the first models were introduced about ten years ago. Apart from the two models mentioned above the others that are fitted with the chassis are the 37149, 14C1, 14C2, 14C9, 16A1, 16A2, 20E1 and 20E2. There were also a couple of receiver-monitors, Models MC01 and MC05, that offer RGB and/or composite video input facilities. There are one or two important circuit differences in the line and field scan circuits in the larger screen models. The chassis was superseded by the TX85 in 1987.

Basic Features

Mains isolation is provided by a transformer which is not mounted on the main PCB. Apart from the RGB output stages, which are on the c.r.t. base panel, all the circuitry in the basic models is on a single PCB of compact dimensions. A contributory factor to this compact design is the use of a TDA4500 chip (IC102) which incorporates the sound and vision i.f. circuits, the a.g.c. and a.f.c. circuits, the audio circuit up to the driver stage, video amplifier and sync circuits and the field and line generator circuits. Due to its high level of integration this chip tends to be maligned by engineers but is in fact rarely the cause of faults. The colour decoder chip is a UPC1365C. Most of the circuitry is straightforward.

The Audio Circuit

The audio circuit looks a bit strange at first glance, see Fig. 1. In fact it's straightforward once you get things sorted out in your mind. TR120 is the driver transistor whose load resistor is R185. This is connected, in the basic bootstrap

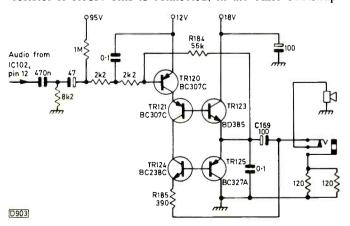


Fig. 1: The audio driver and output stages. The TR121/3/4/5 configuration stabilises the quiescent current.

arrangement, to the output side of the audio output coupling capacitor C169. Transistors TR121 and TR124 replace the usual bias stabilising diode, providing improved performance. Feedback resistor R184 sets the d.c. conditions in the output stage. Failures in this part of the circuit are not every-day occurrences.

The Field Output Stage

The field output stage circuit, see Fig. 2, is a variation on the basic class B theme. Unfortunately it's probably the most unreliable part of the chassis. It is fair to say that there is not one component here that I've not had fail at some time or other. The lower transistor TR105 is actually two transistors which are connected in the Darlington configuration, the first transistor acting as a driver both for its integrated partner and for the upper transistor TR104. In the 16 and 20in. models D106 is a BZX85C150 zener diode and an additional 68V zener diode, D137, is connected across TR105 (anode to collector, cathode to chassis);TR104 is uprated to type T9065V and R200 may be replaced by two 1N4448 diodes. 20in. models also have a shift network.

Power Supply

Fig. 3 shows the power supply and line output stage circuitry. This is far from standard! Power supply regulation is carried out in the line output stage. We'll return to this in a minute.

T101 is the very large mains transformer that provides full mains isolation and sits on the bottom of the cabinet. It often hums more than it should, even when the set is switched off (the on-off switch arrangement differs between models, but in

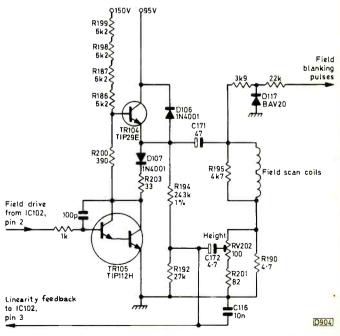


Fig. 2: The field driver and output stages. There are a number of differences in the larger-screen models, see details in text.

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the initial models the mains transformer is energised even when the set is switched off – beware of this if the guards are not in place). In most models FS101 and FS102 are situated on the body of the transformer, FS102 being on the top side and FS101 underneath. In the 20in. models FS102 is on panel PC1183 with the extra scan circuit components.

T101's secondary winding feeds two full-wave rectifier circuits. D120 and D123 develop about 90V across their reservoir capacitor C183. This unregulated supply is fed via L120 to the line output stage which develops a regulated 95V boost voltage and also a 150V supply for the RGB output transistors and the field driver transistor. The fact that regulation is carried out within the line output stage means that the 150V rail is also stabilised. The over-voltage circuit senses the 150V line. Should the voltage on the 150V line be excessive trip transistors TR109/110 conduct, shorting out the line drive. The trip resets automatically when the excess voltage condition has cleared.

The other two rectifier diodes D121/122 develop 18V across C181. This supply is used by the audio output stage. It's also fed to the 12V regulator whose output powers the small-signal parts of the receiver.

The Line Output Stage

The line output stage incorporates a regulated boost voltage generator circuit to stabilise the width and the e.h.t. This 95V supply is also used by the field output stage, thus stabilising the height. As the main circuit is a bit complicated, for the purposes of explanation Fig. 4 shows a simplified circuit of the line output stage.

TR112 is the line output transistor, D113 the shunt efficiency diode, D114 the series boost diode and C189 the boost reservoir capacitor. At the end of the forward scan TR112 is switched off by the line drive waveform. Following the line flyback pulse D113 and D114 conduct to produce the initial part of the forward scan. During this period C189 is charged by D114 in the conventional boost supply manner.

The circuit is designed to hold the 95V boost voltage stable over an input voltage range of 70-95V and compensate for load variations. With an input above 95V D109 will be forward biased, charging C189 and C191 directly. The switching transistor TR107 will be cut off. At the other extreme, with an input voltage of 70V, TR107 will conduct continuously and D109 will remain cut off. With 70V fed to the boost circuit C189 will be charged to 25V, i.e. a boosted supply of 95V will be produced across C191.

Between these two conditions TR107 is switched on for a longer/shorter time at line frequency to provide the regulating action. When it is switched on it provides a feed to C189/D114. When it's switched off, the action of L120 produces a positive pulse at TR107's collector. As a result D109 conducts, charging C189/191. The energy stored in L120 while TR107 is on is proportional to the "excess" voltage above the 70V level and TR107's conduction time. Thus by controlling the mark-space ratio of the drive at TR107's base the boost voltage is stabilised.

The control circuit uses TR111 as an error detector. It samples the boost voltage at its base, in turn setting TR108's base voltage. TR108 also receives at its base a line-frequency sawtooth waveform which is produced by the integrating action of R222/C186 on the flyback pulses. Thus TR108 acts as a pulse-width modulator, conducting at a point during the sawtooth set by TR111. When TR108 switches on TR107 switches off and vice versa.

A variac is useful when fault finding in this area. It may be essential. Note that the voltages quoted above apply to 14in. models. With 16in. sets the boost voltage is quoted as 97.5V

while for 20in, sets the figure given is 115V. The corresponding RGB etc. supply voltages are given as 160V and 175V respectively.

DC Powering

There's a facility for a battery converter/PSU, Model TA127A, to be fitted to portable versions of the chassis.

Fault Finding

Because of the compact, single-board chassis design, print breaks and dry-joints are frequent causes of faults. Check for these very carefully, especially with portable models that tend to live a rougher life. As the aerial socket is an integral part of the tuner a lot of plugging and unplugging will have stressed not only the socket and the tuner but much of the board. Time now for our extended faults list. It's based mainly on the 14in. version of these sets, so a bit of double checking may be required with the larger screen models, i.e. compare circuit diagrams!

Faults List

- (1) Field distortion or collapse, quite possibly intermittent: Check for dry-joints at the field output transistors TR104 and TR105. Also check for print breaks around them. Since the supplies come from the line output transformer, check for dry-joints here, specifically at pins 5, 3 and 10. I've had thermal as well as complete breakdown of the field output transistors TR104/5. TR105 is more likely to fail. Note that it's a Darlington device, type TIP112H. I've seen non-Darlington devices fitted in error: the result is field foldover. Other things to check are D106 and D107 (1N4001 D106 is a zener diode in the larger screen models) and the field scan coupling capacitor C171 (47 μ F).
- (2) Dead set, quite possibly intermittent: The mains switch is a weak point in these sets. It can go open-circuit or lose its latching action. Dry-joints often develop, particularly with 14in. sets in which the switch is soldered to the main board. With these sets you may find small charred areas of the PCB. The switch can overheat, melt and catch fire, especially when the owner has tried to jam it because it wouldn't latch matches often seem to be used!
- (3) Low contrast, with the d.c. levels at pins 4 (brightness) and 7 (contrast) of IC103 low: The cause is excessive beam-current limiter action, usually because R231 ($143k\Omega$ or $150k\Omega$, $100k\Omega$ or $110k\Omega$ in larger screen sets) is open-circuit or high-resistance. Also check R232 ($9\cdot1k\Omega$ or $8\cdot2k\Omega$), R233 ($470k\Omega$), Cl96 ($47\mu F$) and TR114 (BC307B).
- (4) Vision smeary, ringy or luminance shading: Check C138 (1μ F) and C132 (10μ F). They tend to dry up and go open-circuit/low in value.
- (5) No or distorted sound: The speaker is often faulty. Note that different types have been fitted, a circular one and an 5 x 3in. oval one, mounted on different baffles. Their impedance is 16Ω . Portable sets tend to be run hard, eventually ruining the speaker. 16/20in. sets have an 8Ω loudspeaker.
- (6) Dead set, excessive load: Check the T9064V line output transistor TR112. It often goes short-circuit. Dry-joints on its legs are sometimes the cause of no go. Depending on the nature of the transistor's failure the mains fuse(s) may or may not fail. In 16/20in. models the transistor is generally type

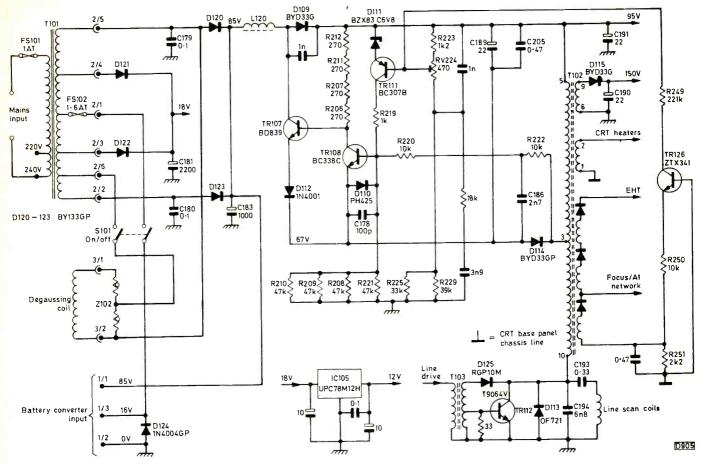


Fig. 3: The line output stage with its regulated boost voltage generator circuit, 14in. version. There are circuit and component changes in larger-screen sets and the on-off switch connections and fuse arrangements differ in some models. TR126 and its associated components provide width correction at high beam currents. TR126 conducts when its emitter is driven negatively because of high beam currents, lowering TR111's base voltage – the total beam current is sensed across R251. This circuit was added during early production.

T6076V – see item (46).

- (7) Noise on sound, no volume: Check the 12V regulator IC105.
- (8) Rolling picture followed by no picture: Check R111 (4.7Ω) in the feed to IC102. It goes high in value.
- (9) Colour fades after half an hour to an hour: Check C141 (10nF) which couples the chroma signal to pin 11 of IC103.

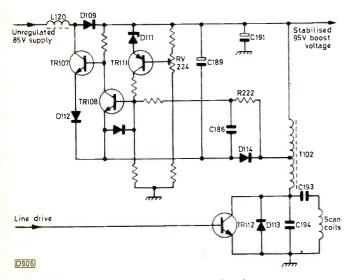


Fig. 4: Simplified line output stage circuit.

- (10) Sound cuts out intermittently: Check by replacement C113 (390pF) in the 6MHz quadrature tuned circuit.
- (11) No colour: Check whether D103 (BAV20) is open-circuit. It's the clipper diode in the pulse feed to pins 19 and 23 of 1C103.

If necessary check R171 (270k Ω) which produces the no colour with low brightness symptom when high in value.

- (12) Blank raster: R171 (270k Ω) open-circuit.
- (13) Field collapse: Check the voltage at the emitter of TR104 in the field output stage. The reading should be 48.5V in 14in. models, 40.3V in 16 and 20in. models. If the voltage is low check the $6.2k\Omega$ resistors R186/7 and R198/9 which tend to go high in value, upsetting the output stage biasing.
- (14) Repeated failure of the line output transistor TR112: Check the line output transformer by substitution. Sometimes the case heats up quickly, giving a clue. If the transistor fails quickly and you want to check its drive, run the set via a variac and fit a resistive load in place of the transistor.
- (15) No colour, blue cast: Check whether C157 (22nF) in the colour a.p.c. circuit, connected to pin 18 of IC103, is leaky.
- (16) Snowy picture: Tuner failure is not unknown. Voltage checks will usually confirm this. Replacements are readily available and MCES in Manchester can supply rebuilt tuners.

- (17) Field cramped in the centre and stretched at the top and bottom, 16/20in. sets: Zener diode D137 (68V) in the field output stage faulty. This is often a thermal fault.
- (18) Rolling with horizontal rippling: Check R236 and R241, both $33k\Omega$, which are connected in parallel in the feed to pin 5 of IC102. They tend to go open-circuit. Also check the core of the line driver transistor T103 it tends to drop out.
- (19) Random fuse blowing: Fit type BYD33G diodes in positions D120/1/2/3.
- (20) Line output transformer faults: A defective line output transformer can produce the following symptoms: intermittent loss of sound and vision; loss of the c.r.t. heater supply; loss of the e.h.t. or focus supply; low collector voltage supply to the RGB output transistors. An open-circuit between pins 6-9 will remove the supply to the RGB output and field driver transistors. Interwinding shorts are a common failing. 20in. models use a different transformer.
- (21) No regulation with high h.t., resulting in blown line output transistors: Check TR107 (BD839) and TR108 (BC338C) for shorts. If necessary check L120 for shorts.
- (22) Ripple on vision, h.t. low and RV224 (set-h.t. potentiometer) inoperative: Check whether TR107 (BD839) is open- or short-circuit. Also check TR108 and L120 for shorts.
- (23) Intermittent loss of line lock: Check for a break in the print to pin 5 of IC102.
- (24) Hum bar moves up the screen: Boost reservoir capacitor C189 (22μF) open-circuit.
- (25) Pumping: Check R225 (33k Ω) and R222 (10k Ω).
- (26) Field roll and buzz on sound: C131 (0-22 μ F) faulty. Check by replacement.
- (27) Regulation problems: Check the $47k\Omega$ resistors R208/209/210/221 by replacement (14in. sets).
- (28) Hum bar: Check the boost voltage smoothing capacitor C191 (22µF).
- (29) Mains fuse(s) blown: Check that the c.r.t. fixing bolts/washers haven't trapped and pierced the degaussing coils, thus shorting them to the earthed c.r.t. Rimband.
- (30) Intermittent clicking from back of set: Cause is c.r.t. flashovers.
- (31) Intermittent field roll: Can be caused by c.r.t. flashovers.
- (32) Weak, distorted sound which goes completely when the volume is turned up: $C114 (0.01 \mu F)$ faulty.
- (33) Intermittent no go: Fuseholder for FS102 weak/dirty. This fuse was uprated from 1A to 1.6AT.
- (34) Intermittent colour: C155 (47pF) faulty. In later production the value of this capacitor was changed to 100pF.
- (35) Line wobble: C125 (68nF) faulty.

- (36) No go with the h.t. and 12V supplies present and correct: Check the line driver transformer T103 for dry-joints, breaks or open-circuit windings.
- (37) Dark band down left-hand side of the picture, severe ringing: $C132~(10\mu F)$ which decouples pin 4 of IC103 opencircuit.
- (38) Pulsating h.t./picture: TR107 and D109 leaky.
- (39) Loss of field sync and no sound: R241 (33k Ω) open-circuit.
- (40) Low gain, grainy picture: SL1432 SAWF driver chip IC101 faulty.
- (41) Dead set with faint line whistle: Break in the print between the collector of TR112 and pin 10 of the line output transformer.
- (42) Set trips, h.t. o.k., no e.h.t.: R225 (33k Ω , 47k Ω in 20in. models) high in value or open-circuit.
- (43) 20in. set trips with low brightness setting: Ensure that R213 is $86k\Omega$, not $82k\Omega$.
- (44) Ripple on verticals: Boost reservoir capacitor C189 (22μF) open-circuit.
- (45) Intermittent line collapse: Check for breaks in the print around the line driver transformer T103.
- (46) Line output transistor failure: In the event of failure of TR112 ensure that the efficiency diode D113 is not type 1N4007GP. It should be replaced with an OGF72 (selected BYV95) which is available under part no. 00V4-631. Ensure that a 47k Ω resistor (R246) is connected between the base of TR110 and chassis. With 20in. sets ensure that C211 which is connected between the base of TR113 and the 12V rail is 22nF, not 220nF. With 16 and 20in. sets TR112 may be type T6076V instead of the R4050 fitted in earlier production models: because of mechanical differences between the heatsinks required these transistors are not interchangeable.
- (47) Line jitter at low signal levels (20in. models): Change the value of C194 from 5.6nF to 4.7nF with a 680pF capacitor (C209) in parallel.
- (48) Field collapse following field drift: C112 ($0.22\mu F$) is open-circuit. It's connected to pin 1 of IC102.
- (49) Field collapse with the vertical white line modulated at mains rate: Check for a dry-joint/print break at the chassis end of the field scan coils.
- (50) Bottom foldover: R203 (33 Ω , 10Ω in 16/20in. sets) open-circuit.
- (51) Overscan with no line sync: D137 (68V zener diode) faulty (16 and 20in. models).
- (52) Intermittent height variation and field bounce: D137 again (16/20in. models)!
- (53) Teletext lines with ITV and Ch 4 only: Zener diode D102 (4·7V) at pin 2 of IC103 short-circuit.
- (54) Intermittent field slip: Focus spark gap firing over.

- (55) Top inch of picture blanked: R237 or R240 (both $47k\Omega$) open-circuit.
- (56) No sync: R236, R241 (both $33k\Omega$) or C125 (68nF) open-circuit.
- (57) Intermittent loss of sync: C129 (68nF) intermittently open-circuit or C124 (2.7nF) leaky when warm.
- (58) Loss of field sync when brightness or contrast is adjusted: L103 open-circuit.
- (59) Ripple on picture: C125 (68nF) faulty.
- (60) Colour drops out when volume is increased/crackle on sound: C166 $(0.1 \mu F)$ open-circuit.
- (61) Intermittent colour: C157 or C159 dry-jointed. If these are o.k. try adding a wire link on the print side of the board from the screen of L111 to pin 14 of IC103 to prevent static discharge.
- (62) Cannot set up the colour a.p.c. circuit: C159 (22nF leaky).
- (63) Blank raster with slight patterning: C121 (10nF) connected to pin 18 of IC102 short-circuit.
- (64) White lines 3in. in from the left-hand side: Line driver transformer T103 faulty.
- (65) Sound-on-vision: Dry-joint on C166.
- (66) No sound, no voltage at pin 11 of IC102: C123 (10nF) short-circuit.
- (67) Weak sound: C113 (390pF) open-circuit or C123 (10nF) leaky.
- (68) Sound fades when volume is turned up: Quadrature coil L104 faulty.
- (69) Expanded teletext lines and flyback lines over the picture: R194 (270k Ω or 200k Ω in 16in. and 20in. sets) faulty.

Remote Control Sets

- (70) Dead set, no channel lights: TR902 faulty.
- (71) Cracks then trips then goes off: TR916 short-circuit. Also check C915, D908, TR901/917.
- (72) Set won't start from cold: Ensure that R947 is $56k\Omega$ not $22k\Omega$.
- (73) Intermittent problems with channel up/down and mute buttons: Check whether C908 (10nF) is leaky.
- (74) Loses memory approximately every week: Try replacing the line output transformer, D115 and C190 on the main PCB.
- (75) Tuning sweep up button doesn't work, down button and store o.k.: IC902 (M293B1) faulty.
- (76) Will not go to standby: Check C179 or C180 $(0.1 \mu F)$ for being open-circuit.

- (77) No sweep tuning plus hum bar: Check D908 for being short-circuit and R969 open-circuit, TR916/7 for short- and R966 for open-circuit.
- (78) Skips programme numbers when stepping: Ensure that C908 is $0.1\mu F$ not 10nF or 22nF. Fit part no. C6120-WW263-17CG.
- (79) Channels sequencing/no 12V rail: The 12V supply can disappear on its route across the remote control PCB. Check TR902/3/4.
- (80) Won't store channel information: Replace IC902 (M293B1).
- (81) Won't lock channels over about 30: Check the 33V zener diode D908 for correct operating point.
- (82) Intermittent loss of memory: Can be due to IC902 (M293B1) or c.r.t. flashovers.
- (83) Goes to standby intermittently: Check whether TR902 (ZTX750) is short-circuit.
- (84) Failure to search, 20in. model: Check R986 (1k Ω). If open-circuit, also check the supply to the tuning voltage regulator. If high, check R56 (2·4k Ω) on the linearity PCB it tends to go low in value.
- (85) Continuous channel stepping when used with TA127 battery converter: Replace link 925 with a PH425 diode connected with its anode to the junction of C906/R919.
- (86) Mains operation o.k. but won't go to standby when TA127 battery converter fitted: Ensure that D22 (1N4001) is fitted in series with R6 on TA127 panel. If not, add it as follows: remove R6 and connect the cathode of D22 to the junction of C2 and pin 10 of IC1; fit a replacement R6 (part no. R4220-GF02-01RG) with one end to the junction of LK2/R1 and the other end to the anode of D22 in a mid-air joint.

Monitors

- (87) Dot pattern with TA127 fitted (MC01): Add a 10nF capacitor on the print side of panel PC1129 from the 85V output to chassis.
- (88) 50Hz buzz on sound in RGB mode (MC01): Ensure that C823 is fitted. Fit a $10\mu F$ capacitor in place of R865, its positive side to the base of TR834. Then add R865 back on the print side of the panel there's not room to fit the capacitor on the print side.
- (89) Poor sync in the computer mode (MC05): Add a 150Ω resistor between pins 1 and 3 of the composite video input plug.
- (90) Display starts two columns to the left when used with a Sinclair QL: Fit width reducer kit (SP5611).

Spares

Spares are readily available from many sources. Virtually all spares wholesalers should be able to help, but for total support contact an approved distributor (CHS/CPC/HRS/Willow Vale). Sendz Components regularly list Ferguson spares and can supply certain PCBs at very good prices.

Teletopics

THE CHANNEL 5 BID

The ITC received just one bid for the Channel 5 licence. It came from the Thames Television led consortium Channel 5 Holdings and is reputed to have been for a nominal £1,000. Whether the ITC will accept the bid and award the licence should be known by November. It could withold the licence on the grounds that Channel 5 Holdings has yet to arrange full funding.

Channel 5 Holdings plans to recruit a workforce of 2,000 retuners who will each be responsible for some 2,000 homes in their allocated area. Thorn UK Rentals will be responsible for recruitment and training (Thorn EMI owns Thames Television). The tuners will wear a uniform, carry a photoidentity card and in view of concern about security will be screened. Basic pay will be £1.50 a visit, with a bonus of 40p if 90 per cent of the work is done before transmissions begin. During a field trial in Harrow retuning took on average ten minutes from arriving at the doorstep. In ten working days 61 per cent of the 725 households involved had had their equipment retuned despite there being no publicity or prearranged appointments. Total cost of the operation is expected to be around £50m.

The consortium plans to issue vouchers for free aerials, though viewers will be expected to pay for the installation – estimated at around £25 a time. It's thought that the total cost of setting up the service will be around £150m. Channel 5 Holdings plans to phase in the service in stages, starting with the London area in July 1993. A Manchester-based service would start in 1994, followed by Birmingham in 2000 and Scotland in 2001.

SATELLITE TV

BSkyB has sold its back-up Marco Polo satellite to Norwegian Telecom (see note on page 000). Because of the legal position it cannot sell the other Marco Polo satellite until the end of 1994 – and then only if the ITC has not found another use for the satellite. It's understood that Norwegian Telecom paid around £30m.

The Financial Times satellite monitor suggests that there was a further fall in dish installations in June. It estimates that the figure was around 57,000. This is a decline compared with both previous months and the same month last year.

Northern Telecom, which produced the 38cm BSB Squarials, is supplying a modified 47cm version to the German market for Astra reception. In addition a 19cm version is being supplied for reception of the German TVSAT services.

CD-I LATEST

Philips plans to launch a portable, professional CD-I player in November, Model CDI360. Features will include a 6in. 756 x 556 pixel colour LCD screen, a built-in twin-button controller, remote control, Y/C, RGB and composite video outputs and built-in speakers. There's mains or battery powering, the latter providing a playing time of around one-two hours. The player sits on the full motion video (FMV) cartridge when this is in use, though Philips plans to launch a unit with an integrated FMV chipset by the end of 1993. The player is expected to sell for around £800. The FMC

cartridge will cost £100-£150 (our apologies for saying £10 last month – page 722). Philips gave the first public demonstration of a production-line CD-I player fitted with an FMV cartridge at the recent European CD-I launch in Paris.

MORE ON DISC SYSTEMS

Pioneer has launched a re-recordable PAL video disc system using magneto-optical technology. The player has a novel dual-head arrangement that allows playback from different parts of the disc and simultaneous erasure/recording. The 30cm discs have a playing time of 32 minutes and can be re-recorded over a million times. Access time is around 0.3 sec. More on the system next month.

Philips plans to launch a record/playback CD system next year, with the players selling for around £800. They will use the same write-once technology employed by professional CD-R machines that cost upwards of £3,000: the disc has a special dye layer that turns dark when struck by a laser beam with sufficient energy.

Kodak has revealed the price of its Photo CD hardware and photo transfer service. The first player, the mid-range PCD865, will become available on September 1st at a suggested price of £369. It will be followed by the basic PCD265 at £299 and the five-disc carousel PCD5865 at £429 a month later. The price for transferring a 24-exposure film to disc will be £8.75, a 36-exposure film costing £12.11. There will also be a variety of special transfer, disc duplication and Photo CD print services at prices from £3.95 to £24.99. Kodak reports that the first 5,000 Photo CD units are rolling off a production line at Hassault, Belgium.

THORN RENTALS PUSH WIDESCREEN TV

Radio Rentals has added a widescreen 16:9 TV set to its range, the first such model to be offered by rental outlets. It expects that this and other developments will increase the percentage of the market taken by the rental chains. Initially a 28in. Philips model will be available.

BBC ENGINEERING NEWS

Nicam stereo sound will be available from the following transmitters and their dependent relays by the end of 1993, bringing the BBC's coverage up to 87 per cent: Blaenplwyf (West Wales), Caradon Hill (Cornwall), Craigkelly (Edinburgh), Hannington (Central/Southern England), Llanddona (North Wales), Oxford (Central/Southern England), Rowridge (Southampton/Southern England), Sudbury (East Anglia) and Waltham (East Midlands). Tacolneston (East Anglia) will come into operation by the end of 1994 and Bilsdale (N.E. England) by the end of 1995.

BBC Engineering is also working with the British National Space Centre and other European organisations on speeding up the development and introduction of digital audio broadcasting (DAB).

EXHIBITIONS

European Cable Communications '92, the only exhibition and conference for the European cable TV and telecoms industry, is to be held at the Olympia Centre, London on October 19th-21st. It's being hosted by the Cable Television Association (Fifth Floor, Artillery House, Artillery Row, London SW1P 1RT – 071 222 2900.

A UK consumer electronics show, called LIVE '93, is planned for September 16-20th next year at the Grand Hall, Olympia. It's being organised by News International Exhi-

bitions and has received the backing of many major brown goods manufacturers.

FERGUSON NEWS

Ferguson products are to bear a new logo - "Ferguson, Thomson Technology". The company has been restructured, with a French management team now in place. Three new VCRs with built-in Video Plus timer systems are being launched, the FV61LV at £329, the four-head/LP FV62LV at £359 and the FV67HV which includes Nicam and hi-fi stereo sound at £449. They all have a one-year, eight-event timer, a mid-mount tape slot, a simplified remote control handset, a rapid-start tape mechanism, child lock and auto head cleaning. Ferguson says that it has developed a VCR that combines Startext and Video Plus but won't launch the machine until more broadcasters adopt Startext.

A 32in. 16:9 set, Model C76W, is to be launched this autumn. Features will include a Nicam decoder, digital signal processing to provide improved definition, digital picture effects and a five-speaker sound system. Price is expected to be around £1,600. Other sets in the pipeline include the 14in. B14C which, at about £230, will include a built-in clock radio alarm.

HARWOOD SPARES

Spares for Harwood brand products are no longer available from the source quoted in our Spares Guide (June issue). Some spares can be supplied by Lamda Electronics Ltd., Unit 59, Millmead Industrial Estate, Millmead Road, London N17 9QQ (081 885 2268, fax 081 801 3118).

NEW REMOTE CONTROL SYSTEM

Celtel Ltd., P.O. Box 135, Basingstoke, Hants RG25 2HZ (0256 64324) has introduced a remote control extender system called Powermid. It enables IR remote controlled equipment to be operated from more than one room in the home. Powermid is a simple to operate, DTI approved lowpower radio transmission system. The range between the transmitter and receiver units is approximately 30m, which is more than adequate for most homes. Suggested price of the system is around £70.

IN BRIEF

Swedish Telecom has successfully transmitted digital HDTV (1,250-line) pictures using a standard 8MHz European terrestrial u.h.f. TV channel. The system employs a sophisticated hybrid coding technique that compresses a 900Mbit/s signal into a 24Mbit/s channel with very little loss of picture quality. It was demonstrated at the recent International Broadcasting Convention at Amsterdam. A report on the Convention will appear next month. . . Oki Electric has developed a 100in. flat-panel plasma display that can be used with the Japanese HDTV system. The panel is unlikely to be available commercially until later in the decade however. To date the largest plasma display shown has been a 60in. one produced by Fujitsu. Along with other Japanese companies Oki will be demonstrating a 25in. colour plasma panel at Electronica, Munich in November. . . Philips is selling to consumer electronics manufacturers a complete DCC package that includes a chip set, a thin-film head and all the other non-standard components required. There are nine i.c.s in the chip set. Philips has also designed a new fixed record/playback head for use in automobile DCC players.

next month in

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FREE CATALOGUE

Next month's issue comes with a free 32-page catalogue from East Cornwall Components.

SERVICING B & O 31XX SERIES RECEIVERS

Though there were only two models, the M20 and MX2000, a lot of these 20in. monitor-style sets were sold. Some relatively uncommon circuitry is employed, such as the step-up chopper circuit and thyristor field output stage. Nick Beer describes the sets and provides

PALMCORDER SHAKE COMPENSATION

■ PALMCORDER SHAKE COMPENSATION
The main user problem with mini camcorders is that
they are too light to hold still, particularly noticeable
with a zoom to telephoto. Shake compensation was
originally developed by Panasonic for the NVS1. It uses
a fuzzy logic controlled electronic giro system. Now
Sony and Canon have come up with a new system that
relies on a novel device called a variangle lens or prism.
Steve Beeching explains the operation of these systems. Steve Beeching explains the operation of these systems.

PROBLEMS WITH NICAM

Nicam has introduced a great improvement in TV sound. Most of the circuitry used is in chip form, so there's little to go wrong. Some problems have been experienced however. Steve Cannon summarises his experiences to date.

● IBC '92

The International Broadcasting Convention presents an opportunity to get acquainted with the latest developments in the broadcasting field. George Cole reports on the year's event at Amsterdam. Digital TV systems were much in evidence much in evidence.

EXPERIMENTS WITH VIDEO

David Woodnott describes his early efforts at producing video pictures in the pre-vidicon days.

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Satellite TV Polarisation Systems

Derek J. Stephenson, B.A., I.Eng.

The demand for increased satellite channel capacity has led to the adoption of frequency re-use. One of the more common techniques used is dual polarisation, which enables the channel capacity of a given bandwidth to be effectively doubled. There are two main polarisation systems, linear and circular. We'll discuss them both, describe common methods of resolving them at the receiver and conclude with quick, simple field service checks on the polariser circuit.

Geo-synchronous Satellite Basics

Geo-synchronous satellites, which are sometimes misleadingly referred to as geo-stationary, are parked in a narrow belt directly above the equator at a height of 35,734km (22,235 miles). At this altitude the orbital speed of the satellite coincides with the natural rotation of the earth. Thus to a ground-based observer the satellite appears to be stationary. It should be pointed out however that corrective action is required to maintain "station keeping accuracy" over the satellite's life-time. Each satellite is allocated a particular orbital position which is referred to as the longitude at the equator. This point is called the "sub-satellite point".

It's traditional to refer to the longitudes of orbital positions as either east or west of the Greenwich meridian (0°) – the system used by conventional atlases. There are exceptions however: Intelsat for one often uses the degrees E terminology, with all longitudes specified in degrees east of the Greenwich meridian. Using this terminology 3°W becomes 357°E. The main reason for doing this is the unambiguousness of azimuthal computations.

Signals from any geo-synchronous satellite above the horizon at the receiving site can be received by aligning the aerial to specific azimuth and elevation angles. The signals from satellites lower than 10° elevation are likely to be swamped by diffracted ground noise however when a small aerial is used.

The geometric elevation angle El calculated by the usual equation (below) is not the strictly true elevation but is accurate enough for satellite reception purposes. At elevations lower than about 30° refraction of microwave signals in the atmosphere produces a very slight error.

El° =
$$\arctan [6.61 \times \cos A \times \cos B - 1/6.61 \sqrt{1 - \cos^2 A \times \cos^2 B}]$$

where A is the receiving site latitude (+ve northern hemisphere, – ve southern hemisphere) and B is the receiving site longitude minus the satellite's longitude (expressed in °E).

The azimuth angle Az of a geo-synchronous satellite is not

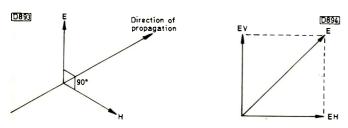


Fig. 1 (left): Electromagnetic wave propagation. Fig. 2 (right): Resolving the signal vectors.

simply the longitudinal position as given by the satellite's operator. It also depends on the longitude of the receiving site. In other words it's the longitudinal difference between the satellite and the receiving site that needs to be taken into account in the calculation of azimuth angles.

$$Az^{\circ} = 180 + \arctan (\tan B/\tan A)$$
.

The term 180 is valid only for receiving sites in the northern hemisphere – neglect it in the southern hemisphere.

Polarisation Overview

An electromagnetic wave from a distant source is normally pictured as a plane wave whose electric and magnetic fields are at right angles. The direction of signal propagation is at right angles to both. See Fig. 1. The electric field is represented by vector E and the magnetic field by vector H. To increase the use of the available bandwidth satellite telecommunication systems generally employ specific polarisation senses to effectively double the channel capacity. Two types of dual polarisation are in common use: (1) linear polarisation, which includes fixed vertical and horizontal polarisation senses, used by satellites such as Astra; (2) circular polarisation, which includes left-hand circular and right-hand circular senses where the E field rotates around the axis of propagation - the majority of high-power DBS satellites employ a single instance of this derived type. They are special cases of what's known as elliptical polarisation.

With linear polarisation the two senses are produced by transmitting the signal with the E field fixed, either vertically or horizontally. Obtaining the spin of circular polarisation is a little more complicated. It's produced by splitting a linearly polarised vector into two vectors at ±45° to the original then delaying or advancing the phase of one of the 45° vectors with respect to the other to set up the polarisation senses. In this discussion you can forget about the H field as it's always at 90° to the E field vector.

A perfectly polarised signal will have zero energy in the opposite polarisation sense. Unfortunately it's not possible in practice to obtain exactly pure polarisation: there will always be a residual component of the opposite polarisation sense. Fig. 2 shows how the resultant signal is resolved into vectors. The horizontal component EH is expressed as EH = E $\cos \Theta$ while the vertical component EV is EV = E $\sin \Theta$.

The ratio between the E field voltage amplitude of the wanted (co-polar) polarisation to that of the unwanted (cross-polar) polarisation, expressed in dB, is known as the cross-polar discrimination or XPD. It's given by

$$XPD = 20 \log (E1/E2) dB$$

where E1 is the wanted polarisation (the co-polar component) and E2 is the unwanted polarisation (cross-polar component).

The XPD is thus a measure of the purity of the polarisation and the higher the figure the better. As an example, if the voltage amplitude of the unwanted polarisation sense is 20 times lower than that of the wanted polarisation the XPD is about 26dB. A decrease in the XPD reduces the carrier to interference (C/I) rather than the carrier to noise (C/N) ratio.

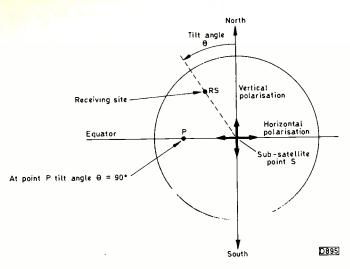


Fig. 3: Tilt angle and receiving site.

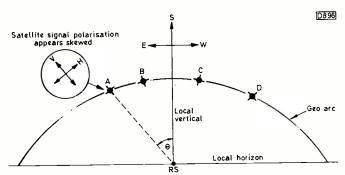


Fig. 4: Tilt angle/polarisation offset as seen from the receiving site.

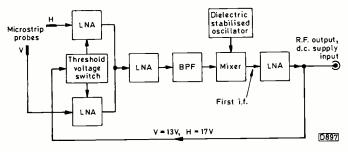


Fig. 5: Typical solid-state probe selection system.

Factors that reduce the XPD are (1) poor aerial design, (2) pointing errors between the transmitter and receiver aerials and (3) precipitation in the intervening atmosphere (rain etc.).

Linear Polarisation

The reference vector for linear polarisation is the E field which, as far as a satellite transmission is concerned, is parallel to the equator for horizontal polarisation and at right-angles to the equator for vertical polarisation. As Fig. 3 shows, if the receiving site is not at exactly the same longitudinal meridian as the satellite, the orientation of the polarisation plane will appear to be twisted from the local vertical or horizontal. The amount of twist (rotation) is called the tilt angle, the polarisation offset or sometimes the skew. For any receiving site it's given by the formula:

tilt
$$(\Theta^{\circ})$$
 = arctan (sin B/tan A).

Fig. 4 shows the same effect viewed from a position directly behind the aerial at the receiving site. With reference

to Fig. 3, the sub-satellite point S is the position on the earth's surface directly below the satellite and is always on the equator (0° latitude).

If the receiving site RS is on the same longitudinal meridian as the satellite, the tilt angle will be 0° and the vertical polarisation vector of the transmission will be in alignment with the local vertical. As RS moves away from this meridian the tilt angle increases until, when on the equator, at say point P, the tilt angle increases to 90°. In this case the local vertical is in alignment with the satellite transmission's horizontally polarised vector.

Further Complications

Depending on the amount of solar sunspot activity and the operating frequency, a Faraday rotation effect may become significant as the signal passes through the ionosphere. The degree of rotation is inversely proportional to the square of the frequency. Thus the effect is greater at lower frequencies. At 12GHz the rotation is so small that it has negligible effect, but at 4GHz and below a small correction, of the order of 1 or 2°, may be required. The result of neglecting this effect is that the cross-polar discrimination between the two polarisation senses is reduced, thus decreasing the carrier to interference ratio.

Precipitation can cause significant depolarisation of signals, lowering the XPD. Circular polarisation is most affected by this but, since aerial pointing errors are less critical, the disadvantage is not always significant. Signal depolarisation due to precipitation is a complex subject that's well outside the scope of the present article.

Resolving Linear Polarised Signals

Resolving a linearly polarised transmission is generally cheaper and easier than resolving a circularly polarised one. In addition the XPD is less influenced by atmospheric effects. Not surprisingly a device that resolves the two linear polarisation senses is called a linear polariser. In order to compensate for the previously mentioned tilt angle some form of fine adjustment is required so that the polariser can be aligned with the polarisation at the receiving site. There are three basic linear polariser designs, the solid-state probe selection type, the electromagnetic or ferrite type and the mechanical type. We'll deal with each in turn.

Solid-state Probe Selection Polarisers

The V/H switched polariser, often called a solid-state probe selection polariser, consists of a pair of probes at right-angles to each other (orthogonal). The probes project directly into the waveguide. One detects vertical polarisation and the other horizontal polarisation. A solid-state switching system is used, see Fig. 5, to select the required output. An LNB supply of 13V might for example select vertical polarisation and 17V horizontal.

These lower cost units tend to be relatively inefficient due to losses and noise and can be used only for single satellite or satellite cluster (e.g. the Astra system) reception. The reason for the inefficiency is that the probes are fixed and no provision for fine tuning of the tilt angle is provided. To align the probes with the polarisation sense of the received signal the LNB/polariser must be physically rotated in its holder by the required amount calculated from the previously given equation for EH. From a viewpoint behind the dish, rotate the LNB/polariser by the required amount anti-clockwise if the satellite is to the east of you or clockwise if the satellite is to the west. This will obviously be reversed if you're in the

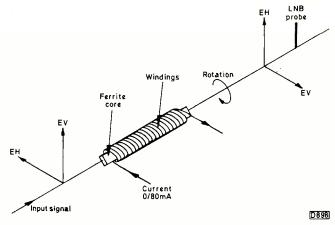


Fig. 6: Electromagnetic polariser action.

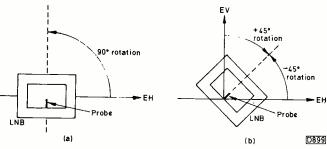


Fig. 7: Electromagnetic polariser orientation. (a) Square setting: 80mA rotates EH by 90°. (b) Diamond configuration: ± 40 mA rotates EV and EH by ± 45 °.

southern hemisphere.

Many low-cost Astra systems are installed with total neglect of the tilt angle since the setting may not appear to improve the picture quality significantly in "clear-sky" conditions.

Electromagnetic/ferrite Polarisers

This type is now the industry standard for multi-satellite reception and is also used with some of the more up-market single-satellite systems. Operation is based on the Faraday rotation principle, see Fig. 6, the idea being to rotate the electric vector of the signal to match the physical orientation of the LNB probe. Control is achieved by varying the magnitude or direction of the current flowing through the windings of the ferrite polariser. The loss with such a device is of the order of 0·3dB.

Satellite receivers designed for use with this type of polariser usually provide fine control of rotation over more than 90° to compensate for the tilt angle. A typical rotation range is 120° or more. Optimal polarisation settings for each channel are set up during installation and are stored in memory.

Current Control

The electromagnetic polariser is a current-operated device, commonly driven at 0/80mA or +45/-40mA to rotate the electric field of the required polarisation sense to suit the orientation of the LNB probe. For Ku band reception the 0/80mA type is mounted so that the major dimension of the rectangular WR75 waveguide is horizontal. Thus for vertical polarisation the incoming signal is not rotated at all while to select horizontal polarisation the signal is rotated through 90°. This is often called "square" orientation, see Fig. 7(a). Receivers that provide a single polarity drive current use this arrangement. There's often a single wire connection to the

polariser, the braid of the coaxial cable at 0V being used to complete the current path. The rather elderly Grundig STR20 Astra package is a typical example of this system.

With the "diamond" configuration shown in Fig. 7(b) the WR75 waveguide is set diagonally with respect to the ground. A +40/-40mA supply from the receiver is used. The incoming E field vector is rotated by either +45° or -45° depending on the required polarisation sense.

Receivers that supply a single polarity current can control this type of polariser when it's mounted in the square mode provided the maximum operating current rating is not exceeded. The diamond configuration seems to be more common with current models. If the correct orientation isn't known or the head unit is fully assembled on purchase of a packaged system a clue is provided by the fact that the polariser lead connections usually exit downwards. With kits and component-part assemblies rectangular waveguides must be matched dimension to dimension. Use appropriate adaptors for any transition from a circular waveguide (C120) to a rectangular one (WR75).

Mechanical Polarisers

With a mechanical polariser, which is often called a polarotor though this is a brand name, the probe is physically rotated to suit the required polarisation sense. This type of polariser, which operates under remote servo or pulse control, is becoming increasingly rare. Good cross-polar isolation is provided but there's the major disadvantage that the moving parts tend to wear out and may seize in cold weather. Fig. 8 gives a simplified idea of the internal workings. For tilt angle compensation it's easy to increase or decrease the angular orientation of the probe by electronic control, as with a ferrite polariser.

Circular Polarisation

With circular polarisation the E field is spun so that the radiation is propagated through space is a corkscrew or spiral fashion. The spinning may be clockwise (as viewed from the source) giving right-hand circular polarisation (RHCP) or anti-clockwise giving left-hand circular polarisation (LHCP), see Fig. 9.

There's a simple rule to picture the direction of spin, following the lines of the left- and right-hand rules that we all learnt at college for motors and generators. Fortunately the contortions are not quite so painful. For RHCP the thumb of the right hand points in the direction of propagation and the natural bend of the fingers shows the direction of spin. Use the left hand instead for LHCP.

The tilt angle for circular polarisation is always taken as 45° irrespective of the receiving site's location.

Resolving Circular Polarisation

The vast majority of direct broadcast services (DBS) operate in the 11·7-12·5GHz band. If only one circular polarisa-

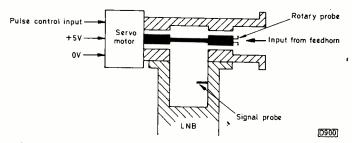


Fig. 8: Simplified mechanical polariser cross-section.

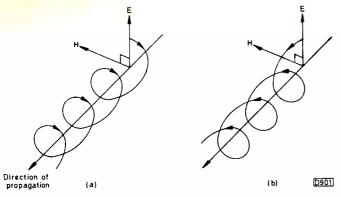


Fig. 9: Circular polarisation: (a) LHCP, (b) RHCP.

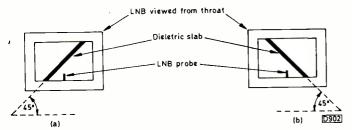


Fig. 10: Resolving RHCP (a) and LHCP (b).

tion sense is being received a linear polariser will, without modification, resolve the signals, introducing an attenuation of about 3dB. A more efficient method is to fit a dielectric slab at 45° in the throat of the feedhorn, see Fig. 10.

More elaborate methods of resolving RHCP and LHCP involve the use of a pair of orthogonal probes with the output from one being delayed by a quarter of a wavelength with respect to the other. Reversing the delay gives selection of either RHCP or LHCP.

Integrated Polariser Designs

The feedhorn, polariser and LNB are often integrated as a one-piece sealed unit called an LNP (low-noise polariser). Recently designed units of this type are a great improvement on the earlier efforts, which were prone to water seepage into the waveguides and electronics. The use of solid-state probe selection or a ferrite polariser is common.

Diagnosing Polariser Faults

Satellite system servicing seems to involve split responsibility nowadays. An initial call is made by a field TV/video technician to determine whether the head unit or the receiver is at fault. If the diagnosis is that the head unit is at fault an aerial rigger is called in, as with terrestrial aerial faults. If not the satellite receiver is repaired or collected.

The first problem is to determine which type of polariser is being used. As a general rule the following is true: (1) a solid-state probe selection polariser will have no extra wiring to the head end since the threshold switching voltage is sent up the coaxial cable; (2) an electromagnetic polariser will have one or more commonly two extra wires to supply the polarisation current; (3) a mechanical polariser will have three extra wires for a +5V supply, earth and pulses.

Quick Checks

A few simple checks are sufficient for diagnosing polariser faults. If signals are either weak or missing, or if signals of only one polarisation sense can be resolved, it's possible that there's a fault in the polarisation system. With

solid-state probe selection polarisers check that the LNB supply voltage switches between threshold levels. With the common Marconi units the levels are typically 13V for vertical polarisation and 17V for horizontal polarisation. It's very common for one polarisation to go down, resulting in loss of half the receivable channels. The cure is normally to replace the LNB.

Magnetic polariser currents can be checked by connecting a multimeter switched to the 100mA range in series with one of the polariser leads. The currents should be roughly +40mA or -40mA (or 0/80mA with a few designs) depending on the polarisation sense to be selected. Presence of these currents normally indicates that all is well. If no current is detected, check the d.c. resistance across the polariser's windings. For a good unit the reading should be about 70Ω . If this is the reading obtained, suspect the receiver's polarisation control circuitry. If a high resistance reading is obtained it's likely that the cause of the trouble is corroded or poor connections to the polariser at the head end. This is also the main cause of intermittent operation. Occasionally the polariser wires fracture a few centimetres from the connecting points, either at the receiver or the head end.

With the rarely encountered mechanical type of polariser check the 5V supply and that servo motor drive pulses are present during operation of the skew control. If these are present the polariser has probably seized up. If they aren't, suspect the control circuitry, particularly the output devices, or the power supply.

Simple Electrostatic Detector

S. Yousaf

The simple but very useful circuit shown in Fig. 1 can be used to "scan" for electrostatic fields – around a TV receiver for example. It's a highly-sensitive version of the gold-leaf electroscope used in school science laboratories. The probe itself is an M2.5 x 30cm bolt. When an electrostatic field is present charge accumulates at the gate of the 2N3819 field-effect transistor. Current amplification produces a reading on the microammeter. Note that to obtain a reading you don't actually have to touch a point in a circuit with the probe, you merely have to bring the probe close to it. The reset switch enables the charge to be shorted to the negative side of the supply while the $10k\Omega$ variable resistor adjusts the device's sensitivity.

The circuit can be used to check for the presence of mains electricty – simply bring the probe near to a mains-carrying cable. Note that it's not necessary for the cable to have a load connected to it for the meter to register the presence of the mains supply – it detects static electricity.

The detector consumes around 0.5mA, so with average use a single 1.5V AA cell will last for years. It can be built into a tiny "pocket-sized" probe. A suitable meter is available from Bull Electrical, 250 Portland Road, Hove, Sussex BN3 5QT.

The electrostatic detector is also a fascinating device for kids: rubbing feet on the floor, combing hair etc. all have an effect on the meter, even at considerable distances.

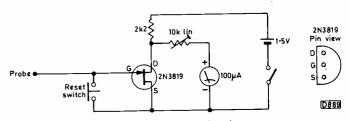


Fig. 1: The electrostatic detector circuit.

CD Player Casebook

Reports from Mike Leach, Ronald Aranha, P.J. Roberts and Jim littler

Akai ACMM370L

The complaint with this midi system was that some discs would skip and jump while others wouldn't play at all. We stripped the left-hand side cabinet section from the machine to gain access to the CD section. Close inspection of the laser lens then told us what we wanted to know – the lens was filthy. Cleaning it gave us an excellent r.f. waveform, so we put the machine back together.

Unfortunately it came back several days later with the same complaint. This time the condition was worse and the laser had to be changed. When it arrived (part no. BO728643K) a great deal of hassle was required to fit it. Why is it that these days so many manufacturers put the bits that go wrong in such inaccessible positions inside the cabinet?

Kenwood DP710

I've had a couple of these machines in recently, both suffering from intermittent TOC reading. The cause of the trouble was a faulty laser unit of course, but the unit is not easy to replace. When a new one is ordered Kenwood send a complete mechanism assembly including the laser, tray, motors etc. A modification has to be carried out: this involves removal of the main PCB assembly followed by many component changes depending on which model you are servicing. Good luck if you get one of them in!

M.L.

Sony CFD770S

This portable was dead when it came in. After replacing the fuse we found that the tape and radio sections worked normally but the CD section didn't. We noticed that the laser unit wasn't in the home position. Checks showed that the sled motor drive chip wasn't getting the relevant command from the CXP5078063Q system control chip, which is a surface-mounted device. When a new system control chip had been fitted the laser unit would return to its home position but the display said "no disc". We then found that there was no laser glow, so a new KSS210B laser unit had to be fitted. This finally put the machine to rights: fortunately for the customer it was still under guarantee.

Sony D99 Discman

The complaint was that this machine didn't work properly. We hooked it to a 9V adaptor, inserted a disc and pressed play. The disc played normally but we noticed that the LCD illuminating lights flickered in a periodic manner. We didn't pay much attention to this and kept the unit on test. Occasionally if it was stopped and play was then selected the display would show "no disc". So we put the machine in the service mode and pressed the play button. Focus search was activated but there was no spindle rotation. A slight tap on the spindle table started the motor. The fault cleared when a new spindle motor (part no. A3133372A) was fitted – and the display panel lamps no longer flickered!

Sony CDPH3600

This unit is supplied with Sony's FHE737 portable music system. The problem was that ejection didn't occur when the eject button was pressed. If the tray was ejected manually how-

ever and the tray close button was then pressed the tray would go inside and the machine would read the TOC. A check on the voltage at pin 24 of the UPD75116GF system control chip showed that it stayed at 5V regardless of the open/close situation. A new system control chip put matters right.

R.A.

Sony D350 Discman

There was no TOC reading. A scope connected to the FE point showed that after pressing the play button the search curve was not symmetrical around the "zero" axis. As a result the FOK signal wasn't produced. The SF89 laser unit had to be replaced. Normal operation was restored after carrying out the relevant adjustments.

Yamaha CDX510

The cause of failure of the drawer to open was traced to a worn drawer belt. After fitting a new one we gave the unit a short test and as everything seemed to be all right the machine was returned to the customer. Two months later it came back with the same fault. When I examined the new belt I'd fitted I found that it had worn out. A call was made to Yahama to see what they had to say. We were told that the plastic type of motor pulley fitted does tend to wear the belt. They recommend fitting a new metal type, part no. VJ668800. We fitted one of these, plus a new belt (VE801800), and gave the machine another test. The change seems to have done the trick.

P.J.R.

Dual CD1030

This player would load a disc and read the TOC but wouldn't read any of the recordings – or if it did there would be bad skipping. The cause of this was traced to the worm gear on the sled motor spindle. What happens is that the gear slides along the spindle and jams the sled drive mechanism. Once the worm gear had been correctly positioned and fixed in place normal operation was restored.

Another fault I've had is a worn drawer belt. When I loaded a disc and pressed close or play the drawer closed but the disc didn't spin and the TOC wasn't read. On investigation I noticed that the drawer belt was slipping because it was slack. Drawer in/out sensing is done by monitoring the current drawn by the drawer motor. Thus when the belt slips the system control doesn't know whether the drawer is closed—the motor is still running but not drawing as much current as it would when stalled. With a new belt (part no. 282684) fitted the machine worked normally.

P.J.R.

Aiwa LX50

We had a linear tracking turntable fault on one of these machines. Failure of the 2SD150 Darlington regulator Q101 seems to have been the start of the trouble. A high voltage had been put on the 5V line with the result that the TLCS43 processor chip IC1 had died. No work could be done until IC1 and most of the power supply had been replaced. At this stage the arm moved right and the motor wouldn't stop. The position sensors and LED were found to be o.k. but the TC4069UBP inverter/amplifier chip IC2 had been damaged—its outputs at pins 10 and 6 sat at 3V no matter what you did

to the sensors. Replacing IC2 got the machine working, but the record size sensor had also been damaged. CP101 and a 2SC2001 transistor used as an amplifier had to be replaced – these items were not shown on our circuit diagram (issue 3, 1984).

Replacing all these parts plus a few belts restored the deck to full health. But all this mayhem had been caused by lack of over-voltage protection. Its omission may have kept the price competitive, but it made the repair long and costly.

J.L.

Test Report: Beckman DM71 and DM78 DMMs

David Botto

Two light-weight digital multimeters from Beckman Industrial make an interesting comparison. I've recently had them for test.

Model DM71

The DM71 is an autoranging, autopolarity probe-type instrument that uses dual-slope integration with a sampling rate of twice a second. According to the manufacturer it has been designed for easy carrying, simple use and convenient access to tight spots. It's certainly light to carry in your pocket. The body is grey, with an orange insulated section to secure the "hot" test probe. The other probe fits into a special slot at the top of the instrument when not it use. I found that the instrument fits comfortably in the hand. It comes in a sturdy, transparent carrying case that protects it from damage. Size is 165 x 28 x 19mm, weight 75g (105g with case and batteries).

A probe type instrument naturally doesn't provide the range of measurements that larger hand-held or bench-type meters do. This one does however provide all the voltage and resistance ranges the field service engineer is ever likely to need and most of the ranges required for day-to-day test bench servicing. The autoranging resistance ranges measure from 0.1Ω to $20M\Omega$ for example. There's also an effective, fast-response diode check facility that gives both a visual and an audible tone indication.

The readout is a 3.5-digit LCD with 5/8in. high figures that are easy to see. Surprisingly for a meter at this price there's a full set of annunciators to indicate the type of measurement and range, the polarity in the case of a d.c. voltage check plus over-range and low-battery information. Power is provided by two LR44 1.5V alkaline-magnesium button-type batteries.

Range selection is by means of a five-position rotary switch. When a range is selected the DM71 emits a faint musical peep. Three little peeps are heard when a voltage is measured, indicating that the measurement has been made and registered in the readout. The input impedance is $11 M\Omega$ on all ranges except the 2V range where it's $12 M\Omega$ and the 200 mV range where it's $1,000 M\Omega$. Overload protection is provided on all ranges except for the diode check.

Precision standard	DM71	DM78
5V d.c.	5-01V	5-02V
12V d.c.	11.96V	11.97V
24V d.c.	23.8V	23.9V
240V a.c.	240V	240V
15Ω	15-33Ω	14-9Ω
39Ω	40Ω	38-9Ω
10kΩ	10-02kΩ	10.03kΩ
360kΩ	354kΩ	355kΩ
10ΜΩ	10-03ΜΩ	9.99ΜΩ

The autoranging has a fast response time, making the DM71 definitely user-friendly. A yellow hold button is placed on the top front edge of the meter so that it can be conveniently pressed without effort using your index finger. When you do this the words "data hold" appear in the display.

The following is a brief specification for the DM71: d.c. voltage ranges 200mV, 2V, 20V, 200V and 250V, accuracy 2 per cent in the 200mV range, 0.7 per cent in the 2V range, 1.3 per cent in the other ranges; a.c. voltage ranges 2V, 20V and 250V, accuracy 2.3 per cent; resistance ranges 200 Ω , $2k\Omega$, $20k\Omega$, $2M\Omega$ and $20M\Omega$, accuracy 2 per cent except for the $20M\Omega$ range where it's 5-10 per cent.

Model DM78

The DM78 is a "credit card" DMM the size of a pocket calculator. It's easy to carry in a shirt or top pocket, making it immediately available for use at any moment. A neat vinyl carrying case is provided and the test leads/probes are permanently attached. This makes it very convenient for use by the field service engineer who doesn't want to be burdened down with heavy equipment. The DM78 measures 108 x 54 x 11mm and weighs 99g.

The 3/8in, high numbers are jet black and easy to see, the readout including a full set of annunciators. Power is provided by two LR44 batteries. The electrical specification is identical to the DM71 except that the input impedance on the a.c. ranges is $11M\Omega$ instead of $12M\Omega$ and there's no rangelock facility.

Accuracy

I checked the two meters against precision standards: Table 1 shows the results obtained.

Conclusions

The only criticism I have is that the test prod cables are wired into circuit directly. Should they break or go open-circuit after a long period of use it doesn't seem that it would be easy to replace them. It might have been worthwhile, even at extra cost, to have fitted the test leads with tiny jacks and the body of the meters with sub-miniature sockets.

The DM71 costs £42 plus VAT, the DM78 £25 plus VAT. Both meters are good value for money. The service engineer engaged mainly on outside work would find either of them a valuable addition to his kit. If I had to choose between them my own choice for outside work would be the DM71, because of its range-lock facility. If I needed a DMM to carry arround permanently in my pocket however I'd choose the DM78.

The meters are available from Beckman Industrial Ltd., Astec Building, High Street, Wollaston, Stourbridge, West Midlands DY8 4PG (0384 442 394) My thanks to Sue Round for her help in supplying samples.

What a Life!

Donald Bullock

The workshop door flew open and a scruffy fellow entered. "Noggs" he said. I spun round, fearing the worst.

"Er grunts but don't go" he wheezed, producing a VCR and tapping its top. "How quickly can you get 'er done? Proper mind, but I can't spend much as I've a bill to pay for the old car. Three hundred quid."

"Perfection and cheapness, that's what we want isn't it? I'll start on it right now. Will that be soon enough?"

The Sharp VCA105HM

It turned out to be a Sharp VCA105HM, the first of its kind I'd seen. A clicking noise came from its main loading block, which is on the top of the deck to the right of the drum. Time to get a manual. A call to Dave Allen at Willow Vale to order one paid extra dividends. He knew the model and the fault well and told me that in addition to the main cam disc I'd almost certainly need a new loading block worm gear. A new mode switch would also probably be a good idea.

The package from Willow Vale arrived next morning. When I'd dismantled the mechanism I found that the cause of the trouble was as Dave had thought. The worm gear sits upright against the cam: its teeth were damaged. Thanks Dave for the manual, the spares and the instant advice. The job was completed in no time. Just like that!

Cars and a Panasonic TC2263

Later, whilst contemplating on the service I'd been able to provide for Noggs and the amount of my charge, I got to wondering where this trade is taking us. I wished I'd gone into car repairs instead. Then a huge Mercedes glided into the drive. Its driver was a brisk and mature gentleman I'd never seen before. He set about removing a 22in. Panasonic colour set from the back seat and soon got red-faced and breathless, as they do. I ran to his aid and as soon as he could speak he told me that the fault was no colour.

"The name's Fryer" he said. "Ring me at my fish and chip shop when it's done."

The set was a Panasonic TC2263. When I got around to looking into it I found that the TDA3562A colour decoder chip had been out recently and that the soldering was terrible. Some of the pins hadn't been resoldered at all. After tidying it up I tried the set again. As the fault was still there I replaced the chip. This time the colour came up.

When Mr. Fryer came back he expressed astonishment at the fact that the set was ready so soon and the charge. "I really thought it would cost much more" he said, pulling a little package of fish-and-chip wrapping paper from his pocket and unfolding it. Inside this he had a wad of greasy old banknotes. Those he gave me were spotted with oil. "Don't bother with the change" he said, "I didn't expect to have the set back so quickly."

He left me with two thoughts. First, there seemed to be a story with his set. Secondly, how could I get hold of a little chip shop?

Bertram's JVC 2151

While I was pondering over this Bertram Blowfly staggered in with a JVC Model 2151 in his arms. "My neighbour

told me that the tube's gone" he said. "Told me he'd change it for me only his meter thing doesn't work and he's under the doctor for his nerves."

"I'd have a mental breakdown myself if I had the time" I replied. Inside the set I found a Ferguson TX100 chassis. When I switched the set on the purity was awful. So I applied my degaussing wand, expecting at least a temporary improvement if the tube's shadowmask was in place. There was no improvement at all and I began to feel that Bertram's neighbour might be right. Then, casting aside my prejudices and adopting my usual rational approach, I replaced the posistor in the degaussing circuit. When I switched on again the picture was perfect. I shook the old posistor close to my ear: it sounded like a maraca.

Vibey's Panasonic Video

Just then Greeneyes called in at the workshop. She brought with her a strange-looking chap – he looked like a human toby jug. This is "Vibey" she announced. The toby jug grinned. "He's come to prune the vine. We'll pay him in grapes from the autumn crop. He's also brought you this video that needs adjusting."

It was a Panasonic NVL28HQ. On test it worked mechanically and split the aerial signal, but that was all. It wouldn't tune, record or produce a picture from a prerecorded tape. It seemed likely that the r.f. converter was in trouble. A meter check showed that the 12V supply was present at pin 4 while scope checks showed that there was a lush video input waveform at pin 2 and audio at pin 4. But there was no composite output at pin 1. So I took it out and gently opened it. The little i.c. was much the worse for wear, having baked. So I parcelled up the converter and sent it off to MCES of Manchester. It came back so quickly that I stopped and did some sums on my fingers to see whether it had been possible in the time. On fitting the repaired converter and switching the machine on I had excellent pictures. A saving factor in this difficult trade is that we are served by some excellent firms. MCES for one has proved to be consistently reasonable and quick.

Having reassembled the machine I called Greeneyes on the internal phone and asked her to return it to her friend Vibey. "You deal with him" I said. "Forty quid. Call him out of the vine and tell him I want cash, not kind."

The Doctor's Sharp Video

My next caller was old Dr. Hokum, who's as Irish as they come. I'd first met him forty years ago when we were both patients in a TB sanatorium. We'd both recovered rapidly, he because his patients wouldn't let him go, me because I'd a lot of living to do (I didn't know then that I was going to waste my life in this trade). He brought along his Sharp VCD801 VCR.

"I think it's got heart trouble Donald" he said, "give me your opinion."

I plugged it in, inserted a cassette and looked at my monitor. Nothing appeared. "Seems to need spare-part surgery" I said. When I removed the top I saw that the idler was slipping. So I took off the bottom cover, disengaged the idler drive belt, turned the machine the right way up, removed the two red Phillips screws – one at each side of the cassette carriage – and swung the carriage out. Then I undid the two screws that secure the idler, dropped in another, replaced the carriage, hooked up the belt, tried the machine out and finally boxed it up.

"The price of the idler will do, doctor, for old time's sake."

Dealing with Surface-mounted Chips

P.J. Roberts, G1VUV

The need to remove and replace surface-mounted components, especially i.c.s, is becoming more common. Those little flat, square chips with millions of legs are a particular problem. Getting them off the board is hard enough let alone putting them on. Unless, that is, you adopt the correct approach using the right tools – rework spray solder flux, 29 s.w.g. ECW, solder cream, a hot-air soldering iron such as the Jetmatic Station, and lots of patience.

Common Suggestions

Various ways of going about it have been suggested. I've tried them and found them wanting, eventually adopting my own approach. I'll start by reviewing a couple of methods I've rejected and give the reasons for doing so.

First there's the cut and bake method, as follows. Use a very sharp knife to cut off all the chip's legs. Then remove the legs and excess solder from the board. Place the new chip on the PCB and solder it by hand.

I don't recommend this because if you slip with the knife you may damage the print or cut yourself. In addition you cannot of course re-use an i.c. that's been removed in this way

Secondly there's the cheese wire method. Take a length of 26 s.w.g. TCW and thread it through the gap between the body of the chip and its legs. Solder one end of the wire to a firm point then heat the chip's legs while pulling the free end of the wire upwards. If all goes well – though it won't – the legs should lift up one by one until they've all been lifted from the PCB.

Again, not recommended. I've tried this method and found it to be a good print lifter.

Recommended Method

The method I do recommend is as follows:

Take two lengths of copper wire, each about six inches long. Feed each one through the gap between the chip's body and its legs (on the sides of the chip with the most pins). Lift the wire ends at one end of the chip and twist them together. Repeat at the other end of the chip, then twist all the ends together.

Spray the area around the i.c. to be removed with rework flux. Apply light tension to the copper wire while using the hot-air iron, set to 360°C, air flow 5 with the small nozzle, to heat the chip's legs and the solder in an even manner. You will feel it when the chip starts to come away from the PCB. At this point reduce the tension on the wire. If you apply too much tension via the wire as the chip comes away you might lift the PCB print.

Having removed the chip, use desoldering braid to clean any excess solder from the print lands. When the PCB has cooled down, clean off any flux with a brass pencil (pencil RS 514-868, brass refill RS 514-880).

Spray the print lands with flux. Allow it to become tacky then place the new chip on to the lands. With the chip cor-

rectly positioned over the print, solder the two pins at opposite corners of one side of the i.c.

Apply the solder cream so that it fills the spaces between the pins, with the surface of the cream flush with the top of the i.c.'s legs.

Set the hot-air soldering iron to approximately 340°C with the air flow at about 3.5 on the scale. Hold the iron about 2.5in. away from the i.c.'s legs: move along progressively as the solder cream melts and flows into the joints. When you've done this turn the air flow to maximum and quickly run over the legs once more.

Repeat this operation on the remaining sides of the chip.

It's vital that you don't overheat the i.c. The chips can be very expensive, so the less you cook them the better. Now check for any dry-joints or solder bridges.

Remember: practice on scrap panels, not on customers' units!

Hot-air Soldering Problems

Here are some of the problems you might experience while learning how to use a hot-air soldering iron.

Symptom: PCB charred.

Cause: Iron held in one place for too long.

Remedy: Keep the hot-air iron moving – don't hold it in one place for more than two seconds.

Symptom: Dry-jointed legs.

Cause: Not enough solder cream.

Remedy: Use more solder cream.

Symptom: Solder bridges between i.c. legs.

Cause: Too much solder cream.

Remedy: Use less solder cream on the i.c.'s legs. If you are careful you can remove a solder bridge using braid. Then go over the legs with the hot-air iron.

Symptom: Lifted print.

Cause: Too much tension applied to the wire whilst removing the chip.

Remedy: Apply less tension to the wire.

The comments above should enable you to adopt this successful method of dealing with SM chips. Practise on scrap panels, progressing to customers' units when you find that you can replace these i.c.s with consistent results.

Letters

STEREO SOUND FROM ASTRA?

Having purchased a Luxor Mk. II satellite TV receiver on the surplus market I set it up for Astra reception – no doubt a trivial task since the unit was designed for use with low-power satellites such as Gorizont. It came with a different LNB from the original one, but adapting the receiver to work with a magnetic polariser instead of a mechanical one was a relatively easy matter.

Most of the Astra channels offer stereo sound and the Luxor receiver has two f.m. channels. They work by using a local oscillator to change the i.f. to 10-7MHz, which is then fed to a conventional f.m. radio type i.f. strip. Provision is made for expanding the audio, but this is not required for Astra and Dolby sound decoding. There's a wide/narrow switch, and I found that the results were best in the narrow position. Some potentiometers are provided to adjust what the manual refers to as "volume", but they appear to be more than simple gain controls. They are in front of the long vertical panel on the main board, to the left of the mains transformer. The rear two affect the narrow-band volume.

Feeding the two signals to an audio vectorscope (an oscilloscope with the signals fed to the two axes) provided a surprise. My vectorscope's tube is arranged so that a mono signal produces a horizontal line while a stereo signal produces a "ball" of squiggles depending on the channel separation. But the Luxor receiver's outputs produced a vertical line, indicating a mono signal with the two channels out of phase. On some broadcasts there was a degree of separation between the channels, but this is very seldom seen. I tried adding a matrix, partially combining the two signals, to see if a stereo signal appeared. Doing this reduced the overall sound level and produced a pseudostereo effect that's similar to the once popular "electronireprocessed stereo". This simply placed a capacitively-induced phase shift in one channel. Another thing I've noticed is that there seems to be excessive bass, i.e. the time-constant in the f.m. demodulator circuit is not correct for Astra's pre-emphasis.

I can see nothing in the Luxor receiver's circuit that would produce anti-phasing of the two signals and can only conclude that this, rather than proper stereo, is what Astra is transmitting.

John de Rivaz, B.Sc. (Eng.), AMIEE, Truro. Cornwall.

LUXOR 9570/AMSTRAD FAULT

With reference to K.D. Bunting's letter (August) I too obtained a Luxor 9570 satellite TV receiver from Sendz Components. The intention was to use it with a Connexions polariser that's attached to the LNB. On the face of it this should have worked all right, as the three-terminal output (5V, pulse and earth) is identical to that on the back of the original Connexions receiver. In practice the system worked for twenty minutes or so after which it started to hunt back and forth with the polariser emitting a constant snarling noise. If left like this a fuse would eventually blow.

Obviously the Connexions polariser needs more current than the Luxor receiver can supply. My solution was twofold. First to install a second 7805 regulator to supply the polariser only (to avoid possibly overloading the existing regulator). And secondly to feed the pulse output to

the polariser via an emitter-follower. As shown in Fig. 1, my emitter-follower is mounted outside the case. This was done so that I could see if it overheated or blew up! Obviously it would be better to mount it inside the receiver. The extra 7805 is within the receiver, bolted upside-down on the heatsink using the same bolt that secures the other 5V regulator.

The arrangement described has now been in use for some days, with the receiver switched on permanently, and has worked without mishap. Fine polarisation adjustment is also satisfactory. I'm indebted to K.D. Bunting for giving me the original idea. Not having a circuit diagram I'd previously suspected that there was a faulty component rather than excessive current drain.

I recently read an article by Donald Bullock in another publication describing a battle with an Amstrad combined video/TV set. Two of these came in for repair not long ago, in quick succession. In each unit the STK7348 switch-mode chip was inoperative and ran hot, but replacement of the chip didn't cure the fault. In both cases a disc ceramic capacitor, different each time, was short-circuit. The cause of the failure was unduly close proximity of the capacitor to an adjacent heavy-duty cement resistor. Both capacitors had surface cracking. Unfortunately I didn't make a note of the circuit reference numbers, but if you do come across the problem visual inspection of the power supply area should lead you to the faulty component. Mount the replacement on longer wires and dress it away from the resistor.

Philip Lane, Aberaeron, Dyfed.

CHANNEL 5 PROBLEMS

I must congratulate Harold Peters for his lucid article (July) on Channel 5 reception problems. It's not a subject to which I'd given much thought. Harold's article came as a bit of a shock, so I decided to look back at previous comments in the magazine on this subject.

Gareth Foster pointed out that the use of traditional highand low-pass filters in the combining units seems to be out of the question. The gap between Bands IV and V, where nearly all the Channel 5 transmissions will lie, is only 32MHz wide however, i.e. it occupies just 8-5 per cent of the total u.h.f. TV spectrum. Thus a combination of bandpass and bandstop filters as shown in Fig. 2 would probably suffice to isolate the inputs from the two aerials and prevent

Disconnect existing red supply lead to this terminal

From input to existing 7805

7805

To input 180

BC142
etc.

Polariser

Fig. 1: Connexions polariser drive circuit for use with the Luxor 9570 satellite TV receiver.

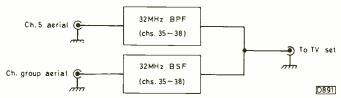


Fig. 2: Possible aerial filter arrangement for Channel 5 reception.

spurious interaction, especially in combination with cross-polarised transmissions.

One thing that concerns me is that cross-polarisation will provide adequate protection only when sufficient care is taken over an aerial installation. If the angle between an aerial and an unwanted signal departs from the ideal 90° by an amount A° the attenuation in dBs will be 20 log x sin A. The following table presents the attenuation against increasing values of A up to 45°, where the attenuation provided falls to 3dB. A polarisation error change from 1° to 10° results in a 20dB degradation of the rejection, from 35dB to 15dB: the degradation occurs quite quickly with small initial values of A.

A°	Attenuation in dB
1	35
2.5	27
5	21
10	15
15	11.75
20	9.3
25	7.5
30	6
35	4.8
40	3.8
45	3

One point that works in our favour is the difference between the centre frequencies and bandwidths of the two aerials. The fact that the Channel 5 aerial will be relatively narrow band will provide some protection, but careful installation, with particular attention to both direction and plane of polarisation, will still be essential.

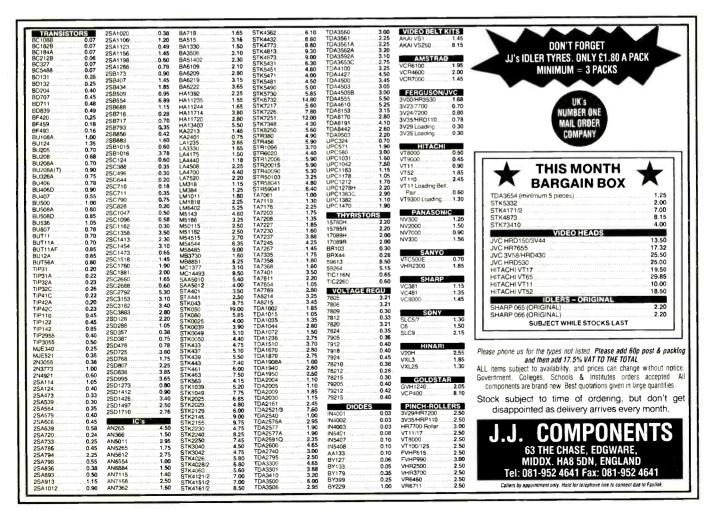
Difficulties will arise with ghost signals, which often undergo some polarisation rotation in the reflection process. It was consideration of the potential situation in my own locality that prompted this letter. I live in the area to be served by the Fawley Channel 5 transmitter. Fawley lies on Southampton Water and is noted for its oil refinery and large power station. I don't know exactly where the transmitter will be sited, but my aerial will have to be pointed towards the refinery and power station which produce multiple reflections of the local group A transmissions from Rowridge (Isle of Wight). As the ghost signals, which are of indeterminate polarity, will come from the same direction as the Channel 5 transmission it's important that they don't get through via the Channel 5 aerial and combining unit, thus upsetting the other four channels currently being well received because of the carefully aligned aerial. Maybe the Channel 5 transmitter mast will produce yet another Rowridge ghost for us.

No doubt this situation will be echoed (no pun intended!) at other sites around the country. So we must look to the designers of the aerials and combining units to do a good job.

Keith Cummins, Holbury, Hants.

PHILIPS BSB RECEIVER

I was going to write to you about the Marco Polo transmissions but have been rather overtaken by events in view of the sale of one satellite to Norwegian Telecom. Another point however concerns BSB receivers. It seems that there's a design flaw in the Philips Model STU902. The crystal



oscillator associated with the MC1377 RGB to composite video converter can beat with another oscillator within the unit. This can cause colour intensity flashing on the News Channel from the composite video and modulator outputs, though it doesn't affect the RGB outputs. Trimmer 2004 can be *very* slightly adjusted to speed up the beating to a point where it's less objectionable. This can be done via the ventilation slots, so you don't have to remove the case.

Colin McCormick,

Plymouth, Devon.

SERVICING COMMENTS

A few years ago I took redundancy after working for a national TV rental company for fifteen years but found it difficult making a living as a self-employed TV engineer.

PHOTOSTATS SERVICE

Newer readers may have missed important servicing features that have appeared in *Television* over the past few years. We have therefore in operation a photostat service to make this information readily available. Photostats of the following servicing features, listed in alphabetical order, can be supplied at the prices shown. Please send requests to: Television Editorial Department, Room L323, Quadrant House, The Quadrant, Sutton, Surrey SM2 5AS. Cheques/POs should be made payable to Reed Business Publishing Ltd. There are two standard prices, see below.

Feature	Price
B and O L/LX2500/2800 chassis	A
Decca 80/100 chassis	Α
Decca 120/130 chassis	A
Ferguson FV31R VCR	Α
Ferguson TX10 chassis	A
Ferguson TX100 chassis	Α
Finlux 1000 series chassis	A
Fisher FVH-P520 VCR	Α
Mitsubishi CT2227	Α
Mitsubishi Euro-4 chassis	A
Mitsubishi HS304 VCR	Α
Panasonic D1 VCR deck	A
Panasonic G VCR deck	В
Panasonic NV333/366 VCRs	Α
Panasonic NV370/830/850 VCRs	A
Panasonic NV730 VCR	A
Panasonic NV777/780 VCRs	A
Panasonic NV2000/2010/3000 VCRs	A
Panasonic U3 chassis	A
Panasonic U4 chassis	A
Panasonic U5 chassis	Α
Salora F chassis	Α
Salora G and H chassis	В
Salora J chassis	Α
Salora K and L chassis	В
Sanyo CTP7130/1/2	A
Sony KV2252/2256/2752/2762	В
Prices, A = £2.50, B = £3.50	

Please allow 14 days for delivery.

So I took a technician's job at a local school and am selfemployed on only a part-time basis now. This way I get the best of both worlds – a hassle-free day job plus a satisfying part-time job to supplement my wages.

I note with interest mention in the July issue of problems with different versions of the TDA3562 colour decoder chip. I've just had similar problems with the TDA3654 field output chip when I tried fitting one as a replacement for a TDA3652 in a Ferguson TX10 chassis (PC1560/61 version) that suffered from field collapse. The fault persisted when the replacement had been fitted. After spending a considerable time changing most of the components in the output stage and trying another TDA3654 chip I resorted to fitting a replacement panel which had a TDA3652 chip. This restored the picture. As a matter of interest I tried fitting the TDA3654 chips from the other panel, also two others, but the field collapse remained. Have I got a duff batch of TDA3654 chips or is some change necessary in addition to reducing the value of R771 in the drive feed from $6.8k\Omega$ to 3.3kΩ?

After some consideration I decided to buy a line output transformer tester advertised in *Television* and have since found it to be invaluable. Admittedly it can't show up every fault, in particular high-voltage breakdowns (though these are often obvious), but it does give me greater confidence in ordering a new transformer when necessary. So to anyone thinking of buying such a tester I'd say go ahead.

I read about someone who snipped off the last coil of spring on the take-up clutch modification for the Amstrad 4600 series VCR. I've been doing this for some time as I regularly found that the modification was not fully effective, the machine still tending to crease tapes. This "bodge" certainly seems to work.

E.S. Branch,

Northallerton, N. Yorks.

SATELLITE NOTEBOOK

With reference to the VideoCrypt decoder problem mentioned by Nick Beer in the August Satellite Notebook, he could have saved himself some time if he had used the de-emphasis switch at the rear of the SVA1 decoder.

T. Giddings,

Harlow, Essex.

In the July Satellite Notebook there was reference to the fact that the Cambridge Computer made remote control unit used with the Finlux SR5100 IRD can interact with the Ferguson Model 51P7 CTV receiver (TX98 chassis), causing the TV set to enter the AV or tuning mode when certain functions are selected. I would like to assure readers that the problem is not caused by the Cambridge remote control unit but is related to the TX98 chassis. According to our sources, Ferguson has now cured the problem.

Ian Radley, Managing Director, Cambridge Computer Ltd.,

Irvine, Ayrshire.

FAIR CHARGES

I read with interest and sympathy Donald Bullock's story (June) about the customer – for want of a better word – who doesn't pay call out charges. That's up to him, but people of his sort are the last to do anything for anyone for free themselves!

Look through any local paper and you will see numerous ads offering free call outs, free estimates, no VAT etc. How

do such operators survive? The truth is that they don't. If only they realised that there's no need to give free service. No other trade compares with ours in this respect. Our trade must really get a grip on itself and stop providing free this and that. The public don't appreciate it and are very quick to complain about the slightest thing that's wrong with their equipment after a repair. Whether you've charged £5 or £100 makes no difference to them when it comes to calling you back, even months later.

Every business should and is entitled to charge for estimates and call outs, whether you're a free-lance working from home (I know many excellent ones) or a company with higher overheads. You can always knock the fee off the final bill if you get the job, but make sure before you visit a customer or before the item is left with your staff that the customer is aware of the charge. If we really want our efforts and, just as important, our true status to be recognised then we must get up to date with reality. I know that times are hard and that people haven't much money. But

that's not our fault and we won't do them any favours by going bust ourselves.

Manufacturers and retailers who sell ever increasing quantities of budget, low-price equipment will also loose out since every repair estimate refused "because it isn't worth it" will lead to the customer buying a different brand the next time round, something he believes will last longer and be worth repairing. This doesn't affect the repair trade of course provided we're paid for estimates.

So come on chaps, realise your worth. Call a plumber or white goods engineer out and see what free service he offers – not a lot! We must all without exception charge for estimates and call outs. Only then will the public be educated into expecting to have to pay. Do a good job, be pleasant and they'll come back regardless. Our policy must be that money in the till for doing estimates/call outs is better than money out of the till for doing free ones.

John Edwards, Bromley, Kent.

HELP WANTED

Can anyone supply a circuit diagram or service manual for the Goldstar VR700 monochrome portable? L.E. Swain, 53 Park Road, Buckden, Huntingdon PE18 9SL (0480 811 058).

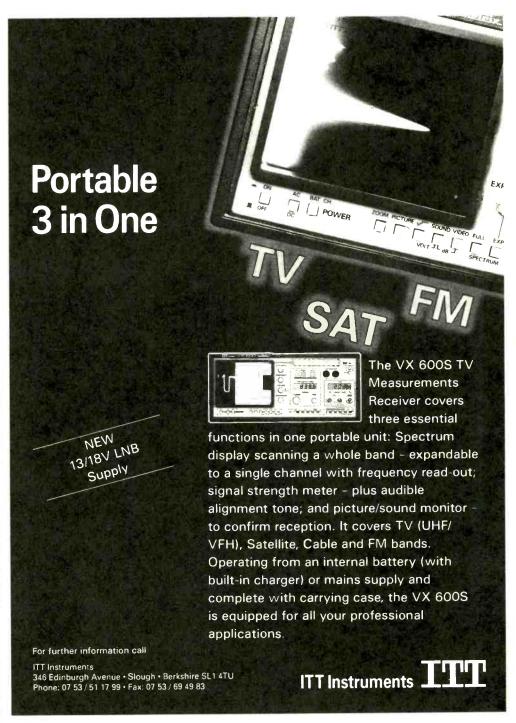
Wanted: circuit diagram or in particular the mains transformer secondary voltages for the Unaohm EP684R colour bar generator. A.R. Cooper, 8 Greenhead Lane, Chapeltown, Sheffield S30 4TP (0742 463 640).

Wanted: Sinclair Microvision Model MTV1B, one tube or a scrap set. Leon Electronics, 11 Woodend Close, Three Bridges, Crawley, West Sussex RH10 1RS (0293 520 536).

Can anyone supply a field timebase panel for the Ferguson 3787/NordMende 8180? Keith Docura, DTV Service, 38 Kent Road, Margate, Kent CT9 3SN (0843 226 773).

Can anyone supply any information on a Radiotelephone Type 25 made by Ajax Electronics - also *Television* issues for May 1985, June 1986, November 1987 and March 1990? V.E. Buffin, 2 Southern Terrace, Mutley, Plymouth PL4 7LS.

Could anyone out there supply an r.f. modulator for the Sanyo VTCNX100 Betamax VCR? One from a faulty machine would do fine. R. Baker, 17 Chapel Lane, Upwey, Weymouth, Dorset DT3 5NA (0305 208 815)



Electricity at Work Act

Nick Beer

Despite the fact that the Electricity at Work Act was introduced back in 1989 many people seem to be unaware of it and its requirements. The name might suggest that it applies to only the electrical industry, in particular to the electrical installation side of the industry. In fact the act is aimed at every company and employer, whatever the nature of his business. Its aim is simple: to ensure that every workplace and employee is protected from electrical danger.

Every employer must have his entire electrical installation(s) checked "regularly" by a "competent person" (electrician or electrical engineer) who has been given a contract to carry out the task, and have every electrical appliance, both fixed and portable, tested for electrical safety. Records must be kept of all these inspections and tests. Every appliance, from a multi-million piece of machinery to the kettle in the tea room, must be tested – it applies to any appliance that any employee might use or be in contact with.

This means that every item on display in your shop, if it's at any time connected to the power supply and working, must be tested. This may seem to be ridiculous, especially as appliances are tested by their manufacturers. But one should appreciate that defects can occur, especially during transit, and that you are protected by being able to say that you've tested a unit instead of simply relying on the manufacturer. I asked a Health and Safety Executive a direct question on testing equipment that's on display. He gave a less than direct reply but what it amounted to was that yes you must test everything.

The act has further implications when it comes to service technicians and engineers. Anyone who carries out repair or maintenance of an electrical appliance must test it for electrical safety and record the results.

Appliance Testing

The testing requirements are as follows. A physical examination must be carried out – are plugs, connectors and leads intact, undamaged, correct and safe? Is the unit's case undamaged and safe? Is the correct plug and fuse fitted? Engineers should of course check such things anyway regardless of the requirements of an act. Where applicable (not class II appliances) the insulation resistance between live and neutral and earth/any exposed metal part must be checked.

There is no requirement that appliances should be flash tested. I have spoken to a number of brown goods manufactures about this. They are against flash testing because of the damage that can be caused by incorrect test methods or too frequent testing.

Portable Appliance Testers

To facilitate safe, correct and efficient portable appliance testing a number of manufacturers in the electrical test equipment business have developed units that carry out all the required tests. The appliance's mains plug is plugged into the portable appliance tester (PAT). Where required an external earth return connection is made.

Some very basic units simply have pass and fail indicators, but this doesn't allow you to record actual values for earth and insulation resistance. This is relevant because gradual insulation breakdown, due maybe to a humid atmosphere,

and increasing earth resistance, due possibly to corrosion of case parts in a microwave oven for example, can be detected and monitored. The more sophisticated PATs have a meter that shows values in addition to the relevant pass bands. An example is the Megger PAT 3, which sells for £381 plus VAT and is available from RS Components and electrical wholesalers such as Newey and Eyre. It doesn't have a flash test facility but is ideal for the average brown goods workshop.

More advanced models that include flash testing may enable test routines to be customised. This ensures thorough testing and helps to prevent mistakes, something that's a possibility when someone may be testing hundreds of appliances one after another, by prompting the user. Other features that one may find include result data logging in an on-board memory and connections to a PC for data storage and manipulation. Various software packages are available for this operation. A PAT that incorporates these features is the Seeward PAT1000S, which is available from RS Components at £590 plus VAT under order code 203-704 (240V version). A 110V version of this PAT is available, also at extra cost the option of calibration.

The Megger PAT 3

The Megger PAT 3 offers the required tests in a convenient and easy to use package at a reasonable cost. It's housed in a very tough yellow plastic case and operates as follows. The initial appliance test is for fuse check/continuity. Full or no meter deflection indicates continuity/open-circuit. With some equipment however the results may not be as straightforward as this. You get less than full-scale deflection and decaying readings when certain types of circuit are present across the mains input. This is especially the case where a switch-mode power supply is used. An open-circuit 100V d.c. voltage is applied during this test: the short-circuit current is 0.5mA.

Earth Continuity

For the earth bond test a meter deflection reads 0-0.5 Ω . The pass limit is 0.1 Ω . An open-circuit 6V a.c. voltage is applied at a nominal 38A, which at 0.1 Ω equates to 26A and at 0.5 Ω equates to 10A. More sophisticated PATs offer a choice of two test currents, with typically a lower one of 6A for appliances with lighter leads such as earthed soldering irons or lamps.

Why carry out high-current earth tests? Suppose that the earth connection in a microwave oven's plug top, or where it bolts to the case, is damaged and that only a couple of wire strands beyond the PVC sheath are actually connected. In the event of a heavy earth-current fault these strands could fuse. The earthing would then be inoperative, with a potentially fatal live oven case. The earth continuity test shows up such deficiencies.

Insulation Resistance

The test that is most often associated with electrical safety testing is of the resistance between the live and neutral connections and the exposed metal parts of an appliance. With non-earthed (Class II) appliances an earth return lead is for test purposes connected to any exposed metal parts such as the case, aerial socket or scart socket chassis connection. A 600V nominal, 500V at $2M\Omega$ test supply is then applied between the live and neutral connections and the test earth return lead. This is one of the benefits of using a PAT. As the mains plug of the unit being tested is plugged into the PAT a good connection to both the live and neutral pins is ensured. Many pieces of equipment have in the past been damaged because a poor connection has resulted in the voltage being applied between live and neutral! With the PAT 3 the pass limit is $2M\Omega$. For new units there's a standard of $4M\Omega$.

Tests have to be made when the repair has been carried out and the unit has been reassembled. Any test failures must be corrected or the unit removed from use. The test results must be recorded and the appliance should be marked. Labels are available from RS Components. "Tested for electrical safety" is supplemented by the date and initials. Such labels and a great deal of other health and safety material is available from Seton Ltd. (see addresses at the end of this article).

Electrical Installation Inspections

There should be no difficulty in obtaining an inspection certificate for a dealer's showroom – it will differ little from any other such installation. When it comes to workshops however the situation is different. Many electricians are unfamiliar with isolated areas used for servicing live chassis equipment and don't know how the IEE regulations apply to them. I've spent much time investigating the requirements and how they they should be satisfied in order to obtain an inspection certificate.

Let's consider one or two practical points. Beside your bench there may be a metal filing cabinet that's used to store service manuals. Your workbench feed is naturally via an isolation transformer with no earth connection. Since the filing cabinet is a metal mass it should be earthed – but do so and your work area becomes very dangerous.

There's reference to isolated areas in the IEE regulations—under "protection by non-conducting location". The following is a summary of the requirements:

- Exposed conductive parts must be arranged so that under normal circumstances no one will come into simultaneous contact with two exposed conductive parts or with an exposed conductive part and any extraneous conductive part if these parts could be at different potentials through failure of the insulation of live parts.
- In a non-conducting location there must be no protective conductors and socket outlets must not have an earthing contact.
- \bullet At every point of measurement under the conditions specified elsewhere in the Regulations the resistance of insulating floors and walls must be not less than $50k\Omega$ where the supply voltage does not exceed 500V and not less than $100k\Omega$ where the supply voltage exceeds 500V but does not exceed low voltage. If the resistance is less than the specified value at any point the floors and walls are extraneous conductive parts for the purposes of protection against shock. Steps may need to be taken to ensure that humidity does not affect these requirements.
- The arrangements must be permanent and also afford protection where the use of mobile or portable equipment is envisaged. Attention is drawn to the risk that where electrical installations are not under effective supervision further conductive parts may be introduced at a later date, e.g. mobile or

portable Class I equipment or metallic water pipes, invalidating this requirement.

- Precautions must be taken to ensure that a potential on extraneous conductive parts in the location isn't transmitted outside the location.
- The first regulation mentioned above is fulfilled when the location has an insulating floor and walls and one or more of the following arrangements applies:
- (1) The relative spacing of exposed conductive parts and of extraneous conductive parts as well as the spacing of exposed conductive parts is sufficient if the distance between two parts is not less than 2m. This distance can be reduced to 1.25m out of the zone of arm's reach.
- (2) Effective obstacles interpositioned between exposed conductive parts and extraneous conductive parts are sufficiently effective when they extend the distances to be surmounted to the values stated in (1) above. They must not be connected to earth or to exposed conductive parts and as far as possible they should be of insulating material.
- (3) The insulation of extraneous conductive parts must be of adequate electrical and mechanical strength.

Apart from the obvious electrical requirements the main point is that the installation must be supervised by a competent person. My approach is to earth as much of the workshop area as possible to the standard regulations. Isolated areas as required should be as per the regulations outlined above to maintain suitable physical isolation between the two. With dedicated soak test and audio service areas the isolation requirement is nil. Soak testing in an isolated area followed by failure to test the appliance for insulation resistance could be nasty, as a short-circuit aerial isolator for example would not show up until the customer's earthed aerial was connected at home – then bang!

One needs to ensure that there are no dangerous earthed areas present in the isolated area – the most likely is a non-isolated aerial socket.

In Conclusion

If your arrangements don't comply with the requirements more detailed thought is needed. Failure to comply is serious – in fact a criminal offence – but above all compliance will ensure that you are working in a safe environment in a safe manner. We all have our opinions about such legislation and its seemingly excessive zealousness, but we have to comply. It's possible with thought and some expense.

My research into all this has been carried out over two years or so as the act is typically non-specific, using terms like "regular" and being generalised, overlooking our rather special requirements in the workshop. Thus I do hope that the points made in this article will save you time and effort.

I have to thank the Health and Safety Executive, the National Inspection Council for Electrical Installations and Contracting, the Electrical Contractors' Association and the IEEIE. You may find the following addresses useful.

RS Components, PO Box 99, Corby, Northants NN17 9RS

Seton Ltd., PO Box 77, Banbury, Oxon OX16 7LS.

Avo International (Megger), Archeliffe Road, Dover, Kent CT17 9EN.

Consult local directories for the addresses of Newey and Eyre branches and Health and Safety Executive offices.

E	CO	NON	ИIC) DE	EVI	CES	32	? TI	EMF	LE	ST	RE	ET,	WO	LV	ERH	IAI	MPT	OÎ	1, W	V2	4A	N
15/80H 15/85R 17052 17053	3.72 3.10	2SC1685	0.08	2SD718 2SD734	0.23	BC148 BC148A BC148B BC148B	0.05		0.24	BFR90A BFR91 BFR96 BFA/92A	0.58 0.47	CD4069 CD4070 CNX62A CD3CM	0.13 0.84	M5218L M5231L M53216P	0.53 1.28	SGSIF344 SKE2G202 SKE4F104	0.63	TA7146P TA7176P	5.44 1.25	TDA1170 TDA1170N	0.96 1.19	TDA4950 TDA7240A	1.17

ı	15/80H		2SC1573Q	0.25	2SD716	1.39	BC148	0.05	BD232	0.27	BFR90A	0.59	CD4069	0.17	M5218L	0.36	SGSIF344	5.04	TA7122BP	0.61	TDA1151	0.49	TDA4605	2.92
ı	15/85R		2SC1675	0.08	2SD718	1.14	BC148A	0.05	BD234	0.24	BFR91	0.58	CD4070	0.13	M5231L	0.53	SKE2G202	0.63	TA7146P	5.44	TDA1170	0.96	TDA4950	1.17
ı	17052		2SC1685	0.13	2SD734	0.23	BC1488	0.03	BD237	0.29	BFR96	0.47	CNX62A	0.84	M53216P	1.28	SKE4F104	0.23	TA7176P	1.25	TDA1170N	1.19	TDA7240A	1.48
ı	17053		2SC1740	0.11	2SD762	0.62	BC149	0.03	BD238	0.10	BFW92A	0.84	CR3CM	2.54	M54532	1.24	SKE4F210	0.89	TA7193AP	3.26	TDA1170S	0.85	TDA7270S	6.60
ı	17088		2SC1741	0.16	2SD774	0.23	BC149C	0.03	BD239	0.28	8FX85	0.31	CR02AM	1.69	M54543L	1.21	SKE5F310	1.63	TA7193P	3.26	TDA1180	1.24	TDA8140	2.31
ı	17089		2SC1815	0.13	2SD787E	0.25	BC157	0.12	8D241	0.39	BFY50	0.31	CV12E	2.44	M54544L	1.46	SL1430	1.36	TA7205	1.06	TDA1190Z	3.96	TDA8153	4.95
ı	17127		2SC1826	0.69	2SD837	0.90	BC159	0.05	8D243	0.37	BFY51	0.33	CX109	6.84	M54548L	2.45	SL1431	1.65	TA7205AP	0.91	TDA1200	0.88	TDA8170	2.55
ı	1N4001		2SC1827	0.74	2SD841	1.24	BC160	0.40	8D243A	0.41	BR100	0.13	DTA124EF	0.12	M546448L	1.96	SL1432	1.53	TA7205P	0.91	TDA1270	1.73	TDA8180	5.19
ı	1N4002		2SC1845	0.20	2SD856	0.64	BC161	0.26	BD243C	0.31	BR101	0.95	DTA144EF	0.41	M54648L	5.04	SL471	1.65	TA7207P	1.63	TDA1412	0.74	TDA8190	2.78
ı	1N4003	0.03	2SC1846	0.28	2SD869	2.47	BC167	0.40	BD244A	0.33	BR103	0.37	ER1400	2.08	M54898AP		SL490	2.31	TA7210P	1.45	TDA1470	0.00	TDA9503	1.56
ı	1N4004		2SC1923	0.13	2SD870	2.60	BC1718	0.13	BD244C	8.20	BR303	1.20	HA11235	1.73		14.69	SN29764AN		TA7214P	3.63	TDA1470P	0.00	TEA1002	5.14
ı	1N4005		2SC1942	2.31	2SD871	4.95	BC177	0.13	BD245C	0.68	BRX44	0.99	HA11244	3.71	M58485P	5.78	SN7474N	0.36	TA7217AP	1.40	TDA1506	4.45	TEA1009	1.20
ı	1N4006	0.05	2SC1959	0.10	2SD880	0.33	BC178	0.10	BD246C	0.75	BRY56	0.41	HA1124A	0.70	MB3730	1.89	SN76013ND		TA7222	1.24	TDA1510	1.38	TEA1014	1.81
ı	1N4007	0.05	2SC1969	1.80	2SD882	0.29	BC182	0.05	BD278A	0.54	BSS38	0.17	HA11423	1.96	MB3731	1.98	SN76227N	1.03	TA7222AP	1.23	TDA1512	2.29	TEA1039	1.88
ı	1N4148		2SC1983	0.99	2SD898B	2.39	BC182A	0.12	BD317	1.40	BT120	1.24	HA11440	2.83	MB3732	2.22	SN76666N	1.20	TA7227P	1.50	TDA1512 TDA1515A	2.47	TEA2018A	1.46
ı	1N4448		2SC2001	0.13	2SD904	6.07	BC182L	0.05	BD318	1.12	BT129	3.16	HA1166X	6.73	MC13002	3.71	SN76705AN	1.65	TA7230P	1.30	TDA1516Q	3.23	TEA2016A	
ı	1N5061		2SC2029	0.33	2SD973	0.36	BC182L8	0.05	BD380	0.39	BT139600	1.01	HA11713	1.31	MC13002P	4.65	SR2M	0.66	TA7233P	1.72	TDA1518Q			2.40
	1N5402		2SC2073	0.49	74LS00	0.20	BC183	0.05	BD433	0.26	BT151/500R	0.78	HA11741	6.86	MC13002F	0.82	STA341M	2.31	TA7240AP			3.05	TEA2165	4.66
ı	1N5404		2SC2078	0.58	7805	0.23	BC184	0.08	8D434	0.28	BT151800	1.11	HA11745	5.25	MC1327AP	1.57	STA401	2.23	TA7240AP	0.00 2.15	TDA1670A	2.02	TIC106D	0.53
	1N5406		2SC2141	1.43	7805T022	0.23	BC184L	0.03	BD435	0.36	BU205	1.03	HA13001	1.30	MC1327AF	1.22	STA441C				TDA1701	4.71	TIC106M	0.67
ı	1N5408		2SC2166	0.92	7808	0.24	BC184LC	0.03	8D436	0.31	BU208A	0.92	HA13108	2.67	MC1350P	1.76		2.39	TA7241	2.23	TDA1770	2.49	TIC45	0.57
	1N914		2SC2168	0.87	7812	0.35	BC204	0.35	BD437	0.31	BU208D	0.85	HA13118	1.85			STK0029	5.70	TA7243P	2.71	TDA1870	2.64	TIL100	0.50
U	1S1555		2SC2236	0.25	7815	0.24	BC2078	0.22	BD437	0.37	BU326A		HA13119		MC1352P	1.40	STK0039	5.52	TA7250	3.28	TDA1904	1.17	TIP110	0.33
	1S2076		2SC2271	0.21	7818	0.39	BC212	0.22	BD436	0.10	BU406	0.50	HA13403	1.63	MC1358P MC14493P	1.23	STK0040	7.18	TA7267P	1.96	TDA1905	0.91	TIP112	0.00
	2N2219A		2SC2274	0.21	7905	0.41	BC212B	0.04	BD442		BU406D	0.43	HA1374A	3.96		3.79	STK0059	9.46	TA7270	1.50	TDA1908A	1.10	TIP112H	0.33
ı	2N2213A		2SC2274K	8.13	7912	0.41	BC212L		BD510	0.40		0.33		2.89	MC14528BC		STK025	9.37	TA7270P	1.50	TDA1940	3.89	TIP120	0.55
	2N2905		2SC2314	0.13	AA119	0.34	BC213	9.05		1.30	BU407	0.51	HA1377	1.36	110 10000	2.15	STK043	0.00	TA7271P	1.90	TDA1950	2.01	TIP121	0.40
	2N2926G		2SC2335		AA143			0.10	BD529	0.93	BU407D	0 94	HA1388	1.87	MDA2062	2.14	STK3042	4.82	TA7273	3.43	TDA2002	0.82	TIP126	0.51
	2N3053		2SC2458	1.07	AC127	0.12	BC214	0.05	BD530	1.01	BU426A	0.64	HA1389	2.44	MJ2955	0.94	STK3062	8.62	TA7274P	2.15	TDA2003V	0.63	TIP132	0.44
	2N3054		2SC2482	0.08		0.10	BC214L	0.08	8D535	0.41	BU426E	2.06	HA1392	1.56	MJ802	2.60	STK4131	7.56	TA7280	2.11	TDA2004	1.23	T)P137	0.46
	2N3054 2N3055		2SC2547E	0.25	AC141K	0.44	BC237 BC237A	0.04	8D536	0.46	BU500	1.06	HA1397	2.56	MJE13005	0.79	STK4141	8.00	TA7281	2.09	TDA2005	1.24	TIP2955	0.79
	2N3442			0.23	AC176K	0.29		0.07	8D675	0.29	BU508A	0.90	HA1398	2.56	MJE2955	0.66	STK4142	7 97	TA7299	1.93	TDA2006	1.02	TIP29C	0.29
	2N3702		2SC2565	3.67	AC187 AC187K	0.15	BC237B	0.04	BD677	0.29	BU508AF	1,10	HA1452	0.95	MJE3055	0.49	STK4162M	9.22	TA7313AP	0.60	TDA2009	2.23	TIP29E	0.39
	2N3702	0.10	2SC2570A	0.28		0.31	BC238	0.10	BD707	0.49	BU508D	0.85	HM6232	5.77	MJE340	0.38	STK4171		TA7317P	0.77	TDA2020	2 29	T1P3055	0.69
	2N3704 2N3773	0.13	2SC2577	1.50	AC188	0.29	BC238B	0.05	BD839	0.49	BU508DF	1.36	HM6251	5.69	ML237B	1.23		10.56	TA7325P	1.63	TDA2030	0.00	TIP30C	0.16
			2SC2581	2.38	AC188K	0.65	BC239	0.03	BD901	0.45	BU508V	1.13	HM7103		ML923	3.82	STK418111		TA7343AP	0.69	TDA2030H	0.71	TIP31	0.00
	2N3819 2N3904		2SC2632	0.28	AD149	0.50	BC2528	0.16	BD902	0.58	BU526	1.36	1011001	13.66	MN1405VKF			12.47	TA7358P	0.75	TDA2030V	0.66	TIP31A	0.25
	2N4444		2SC2655	0.24	AD161	0.99	BC300	0.38	8D911	0.63	BU536	1.59	ICH281	1.20		11.41	STK4181A		TA75358P	0.66	TDA2040	1.63	TIP31B	0.29
		2.60	2SC2671	0.19	AD162	0.92	BC301	0.23	BD912	0.68	BU608	1.54	KA2101	0.58	MN1435VX			12.09	TA7607AP	1.89	TDA2170	2.47	TIP31C	0.28
	2N6292	0.60	2SC2688	0.29	AF124	0.74	BC302	0.35	BDV658	1.12	BU705	1.56	KBL08	0.45		12.75	STK4332	5.38	TA7609P	1.90	TDA2270	3.91	TIP32A	0.35
	2SA1015	0.08	2SC2785	0.16	AF127	0.58	BC303	0.26	BDW84C	0.94	BU806	0.79	KSR1004	0.08	MN1435VXB		STK4352	1.65	TA7630	0.00	TDA2525	3.54	TIP32C	0.36
	2SA1016		2SC2791	4.25	AF139	0.28	BC307	0.05	BDW93C	1.06	BU806A	0.78	L200CV	1.09	MN650	2.27	STK437	7_96	TA7630P	1.81	TDA2530	0.41	TIP33	0.57
	2SA1020		2SC3150	1 06	AF239	0.41	BC307A	0.05	BDW94C	0.45	BU807	0.49	LA1201	0.54	MPSA42	0.22	STK4392	5.31	TA7640AP	1.04	TDA2540	0.36	TIP33A	0.89
	2SA1020Y		2SC3153	2.21	AF279	0.33	BC307B	0.05	BDX32	1.65	BU826A	1.53	LA1230	1.86	MPSA56	0.11	STK441	9.73	TA7676P	4.13	TDA2541	1.46	TIP33C	0.95
	2SA1095		2SC3156	3.61	AL102	2.48	BC308	0.05	BDY20	2.06	BU908	1.13	LA1385	1.40	MPSA93	0.08	STK459	7.73	TA7680AP	4.39	TDA2560	2.47	TIP34	1.15
	2SA1102		2SC3182	3.13	AN245	5.78	BC308A	0.11	BF115	0.39	BUK444	2.04	LA3161	0.37	MPSU10	2.54	STK461	8.99	TA7698AP	5.77	TDA2576A	4.65	TIP34C	0.86
	2SA1143		2SC3225	0.33	AN3821K	7.01	BC308C	0.05	BF179	0.30	BUT11	0.87	LA4140	0.35	MR854	0.13	STK4843		TA7705P	1.38	TDA2577	4.71	TIP41A	0 29
	2SA1175		2SC3795	1.27	AN5265	1.30	BC327	0.09	BF184	0.40	BUT11A	0.69	LA4182	0.75	MSM5840H			11.19	TA7769P	1.39	TDA2577A	2.76	TIP41B	0.30
	2SA1186	3.42	2SC380	0.12	AN5435	1.24	BC327B	0.17	BF185	0.28	BUT11AF	0.82	LA4192	1.10		14.91	STK5211		TA8205	3.18	TDA2578A	2.47	TIP41C	0.35

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2SA1208	0.25	2SC388A	0.57	AN5512	1.82	BC328	0.06	BF194	0.14	BUT12A	0.82	LA4220	1.25	MVS240	0.51		12.63	TA8210H	3.96	TDA2579	2.85	TIP42A	0.29
2SA1265	1.89	2SC458	0.08	AN5515	2.06	BC337	0.09	BF196	0.14	BUT56A	0.55		1.60		3.10	STK5322	6.58	TA8215	3.46	TDA2579	2.14	TIP42A	0.29
2SA1286	0.33	2SC536	0.05	AN5521	1.60	BC337L	0.21	BF197	0.24	BUW11	1.00		2.04	NE555	0.21	STK5325	4.12	TA8691N	5.47	TDA2581Q	2.44	TIP4ZC	0.33
2SA473	0.49	2SC710	0.12	AN5612	2.26	BC338	0.05	BF198	0.08	BUW11A	0.84	LA4282	2.06	NE555N	0.23	STK5326	4.12	TAA550	0.25	TDA2582	1.61	TIPL791A	
2SA562	0.16	2SC867A	5.11	AN5900	1.23	BC368	0.11	BF199	0.03	BUW41B	0.81		1.07	NE592	1.85	01140020	10.31	TAG626	1.34	TDA2591	1.15	TIS43	1.35
2SA634	0.52	2SC945	0.08	AN6310	4.55	BC369	0.13	BF200	0.37	BUW81A	1.28	LA4440	1.52	NE646N	2.10	STK5331	3.51	TBA120	0.51	TDA2593	0.72		0.64
2SA639S	0.00	2SD1051	0.46	AN6326	3.50	BC372	0.31	BF240	0.10	BUW84	0.99	LA4445	1.30		2.10	STK5332	2.97	TBA120AS	0.85	TDA2594	2.14	TL011CP	1.32
2SA673	0.08	2SD1128	0.99	AN6341	2.23	BC546	0.00	BF244	0.29	BUX84	0.33		1.30	111 1100	11.51	STK5333	3.21	TBA120S	0.86	TDA2595	2.06	TL071CP	0.36
2SA684	0.20	2SD1138	0.71	AN6610	0.74	BC546A	0.05	BF245A	0.18	BUX85	0.74		1.25	0A47	0.24	STK5372	3.71	TBA120T	0.57	TDA2593	3.79	TL494	1.12
2SA733	0.16	2SD1207	0.21	AN6671K	5.19	BC547	0.10	BF245B	0.37	BUZ71	0.50		2.04	DA90	0.09	STK5421	2.52	TBA120U	0.46	TDA2611A	0.62	TMP47C432	
2SA769	0.99	2SD1265	0.74	AN7158	2.66	BC547A	0.03	BF255	0.10	BY127	0.09		2.57	DA91	0.14	STK5422	4.93	TBA2800	0.66	TDA2611AQ		71.10.100.10.1	11.24
2SA798	0.36	2SD1273	0.79	AN7161	2.48	BC5478	0.10	BF256	0.23	BY133	0.05	LA4500	1.68	R2540	1.00	STK5451	4.78	TBA395	0.66	TDA2640	3.71	TMP47C434	
2SA872	0.13	2SD1275	0.66	AN7171K	3.74	BC547C	0.06	BF256LC	0.45	BY164	0.52	LA4505	1.73	R2540X	1.86	STK5466	5.82	TBA520	0.82	TDA2652	0.71		11.89
2SA872A	0.19	2SD1276	0.82	BA145	0.10	BC548	0.10	8F257	0.34	BY179	0.69	LA4507	2.23	R2M	0.66	STK5471	4.64	TBA540	0.00	1076000	12.09	UC3844	1.78
2SA940	0.64	2SD1279	4.74	BA156	0.05	BC548A	0.28	BF258	0.03	BY184	0.29	LA4508	2.05	R3297	4.27	STK5476	5.28	TBA5400	0.74	TDA2653A	2.47	UPA81C	0.69
2SA952	0.13	2SD1292	0.33	BA157	0.10	BC548B	0.17	BF259	0.30	BY20320	0.20	LA4520	1.04	R4050	2.80	STK5481	5.36	TBA560C	0.66	TDA2680	4.95	UPC1181H	0.86
2SA958	0.42	2SD1308	0.69	BA158	0.07	BC548C	0.11	BF324	0.10	BY206	0.12	LA4700	3.42	R4051	2.22	STK5482	3.87	TBA570A	1.71	TDA3190	0.82	UPC1182H	5.77
2SA966Y	0.28	2SD1397	1.55	BA159	0.29	BC549	0.05	BF337	0.32	BY207	0.17	LA5112	3.30	RB156	1.65	STK6962	2.22	TBA651	0.98	TDA3190P	1.08	UPC1185H	4.13
2SA970	0.13	2SD1398	1.63	BA317	0.05	BC556	0.05	BF338	0.38	BY210400	0.18	LA5512	0.46	RGP10	0.27	STK7216	5.36	TBA750Q	4.95	TDA3300B	5.96	UPC1188	3.71
2SA984	0.20	2SD1426	2.31	BA318	0.03	BC556B	0.05	BF355	0.46	BY224600	4.95	LA7223	2.46	RGP15	0.41	STK7226	7.94	TBA800	0.49	TDA3330	4.09	UPC1212C	0.80
2581010	0.33	2SD1427	2.81	BA5102A	1.23	BC557	0.05	8F392	0.15	BY226	0.15	LA7520	2.00	RGP15J	0.34	STK7308	5.92	TBA810P	1.61	TDA35411	0.92	UPC1225H	2.47
2SB546	0.51	2SD1432	4.74	BA536	1.52	BC557B	0.05	BF393	0.17	BY227	0.12	LA7800	1.24	RGP30M	0.29	STK7348	4.49	TBA810S	0.41	TDA3560	4.50	UPC1228HA	
2SB633	0.91	2SD1439	2.18	BA5406	3.13	BC557C	0.10	BF419	0.63	BY228	0.36	LA7801	1.24	RM11C	0.29	STK7356	5.42	TBA820	0.53	TDA3561A	3.21	UPC1230	2.14
2SB643	0.20	2SD1453	1.49	BA6109	1.38	BC558	0.04	BF422	0.13	BY229	1.64	LA7820	1.52	S2000AF	1.15	STK7358	5.30	TBA820L	0.53	TDA3562A	3.21	UPC1230H	2.15
2SB643S	0.20	2SD1497-02		BA6209	1.27	BC558A	0.10	BF423	0.09	BY229600	1.23	LA7830	0.99	S2055AF	1.65	STR1096	3.94	TBA820M	0.33	TDA3565	2.14	UPC1278H	2.06
2SB644 2SB688	0.21 1.24	2SD1497-06 2SD1541	3.30	BA6219 BA6222	1.40	BC558B	0.05	BF435 BF450	2.61	BY229800	0.94	LM1303N	0.85	S2530A	2.20	STR40090	6.63	TBA920	0.49	TDA3566	3.30	UPC1318	2.48
2SB772	0.33	2SD1541 2SD1555	2.39	BA656N	1.16 0.81	BC559 BC560C	0.10 0.20	BF458	0.18	BY238 BY255	0.30	LM1877	1.40	SAA1004	1.10	STR4090	0.00	TBA950	1.63	TDA35718	2.99	UPC1335V	2.72
2SB772Q	0.33	2SD1577	3.25	BA718	0.74	BC635	0.20	BF459	0.30	BY298	0.13	LM317T LM324N	0.46	SAA1121	7.13	STR4211	4.20	TBA970	4.00	TDA3576		UPC1351C	1.65
2SB793	0.30	2SD1649	1.75	BAS11	0.28	BC637	0.14	BF469	0.28	BY299	0.12	LM339N	0.29	SAA1174 SAA1250	4.95 1.45	STR440 STR441	6.19	TCA270S	1.00	TD 400 40	11.55	UPC1353	1.30
2SB819	0.46	2SD1650	2.22	BAV18	0.27	BC639	0.12	BF470	0.28	BY476A	0.12	LM358	0.14	SAA1250 SAA1251	3.20	STR451	5.77	TCA440 TCA660B	1.89	TDA3640	4.77	UPC1363C	1.02
2SB861	0.79	2SD1876	4.47	BAV20	0.25	BC640	0.05	BF480	0.62	BYD14J	0.43	LM358N	0.21	SAA1293	6.50	STR50020	5.78 3.71	TCA8000	0.41	TDA3650	9.00	UPC1363CA	
2S8891	0.31	2SD1877	1.89	BAV21	0.11	BC879	0.37	BF493S	0.33	BYD33G	0.61	LM380N	0.79	SAA1351	7.99	STR50020	4.50	TCA910	1.60	TDA3651A TDA3653AD	1.81	UPC1365C	1.65
2SC1008	0.17	2SD1911	0.00	BAW62	0.06	BC880	0.36	BF597	0.15	BYD33J	0.15	LM386	0.45	SAA3027P	6.19	STR54041	6.58	TCA940	3.30	TDA3653B	2.97	UPC1378H	1.07
2SC1061	0.36	2SD234	0.91	BAX14	0.27	BCY70	0.07	BF757	1.03	BYV10-40	1.74	LM393N	0.25	SAA5010	3.02	STR5412	5.06	TD3F900H	6.37	TDA3654	1.48	UPC1391H UPC1394	0.50
2SC1096	0.48	2SD313	0.41	BB105B	0.23	BD131	0.26	BF758	0.31	BYV95C	1.13	M192B1	2.47	SAA5012	3.21	STR58041	5.67	TDA1004A	3.30	TDA3810	2.47	UPC1394 UPC1420CA	1.23
2SC1114	1.12	2SD350A	1.19	BC107	0.13	BD132	0.20	BF759	0.33	BYV96D	0.21	M21C	1.20	SAA5030	6.23	STR6020	5.07	TDA1010	1.04	TDA4420	1.23	UPC1420CA	
2SC1162	0.30	2SD401	0.94	BC107B	0.19	BD135	0.21	BF760	0.23	BYW56	0.16	M293		SAA5050	4.54	STR6020KIT	5.77	TDA1011	0.96	TDA4427	1.99		0.99
2SC1213	0.13	2SD438	0.25	BC108	0.14	BD136	0.19	BF762	0.33	BYX55600	0.20		14.63		5.28	T6064V	2.55	TDA1011A	1.28	TDA4442	3.19	UPC2002 UPC324C	1.09
2SC124	0.42	2SD468C	0.19	BC109	0.11	BD137	0.43	BF869	0.24	CA1310E	0.75	M490		SAB3021		T6076V	2.82	TDA1013A	1.40	TDA4500	3.67	UPC324C UPC4558C	0.42
2SC1306	1.12	2SD476	0.94	BC109A	0.12	BD139	0.28	BF870	0.22	CA3094	2.97		14.92		10.19	T9013V	4.87	TDA1015	0.96	TDA4501	2.67		0.41
2SC1318	0.09	2SD525	0.74	BC109B	0.14	BD140	0.23	BF959	0.18	CD4001	0.13	M491	7.70	SAB3035	6.23	T9034V	1.40	TDA1020	1.23	TDA4503	4.12	UPC574	0.54
2SC1364	0.28	2SD551	4.34	BC109C	0.19	BD168	0.73	BF960	0.26	CD4011	0.20	M494	8.57	SAF1032P	3.87	T9035V	1.38	TDA1035SB	4.02	TDA4505E	4.50	UPC580C	2.47
2SC1384	0.84	2SD613	0.61	BC117	0.13	BD175	0.28	BF966	0.56	CD4013	0.33	M50115AP	2.43	SAF1039	2.29	T9038V	5.91	TDA1035T	2.19	TDA4600	1.65	UPD1937C	2.42
2SC1398	0.77	2\$0636	0.13	BC119	0.36	BD179	0.33	BF970	0.68	CD4016	0.13	M51102L	1.72	SDA2112		T9053V	1.15	TDA1037	3.64	TDA4600/2	1.92	X0065CE	1.65
2SC1413A	1.96	2SD637	0.12	8C139	0.31	BD189	0.39	BFR39	0.35	CD4021	0.41	M51231P	1.40			T9054V	0.85	TDA1044	1.51	TDA46002D	2.88	X2402	4.93
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Most VID 2573 £17.29 VID 1813 £3.05 VID 7540 £0.66 VID 1083 £14.56 VID 2188 £14.62 VID 2187 £13.69 VID 1981 £1.48 VID 1388 £2.06 VID 1981 £2.06 VID 1981 £2.06 dwelling has it's own systems will be nch Roller oft Kit outch Mechanism receiver/decoder which can SENTRA VX-5000/8000 installed this way LYNK receive all channels as if it had it's 4 Way Multi Switch Video Head Pinch Roller Belt Kit so be ready to own independent dish. Lynk supply a range of demand. products to enable simple Cassette LED Tension Band on Band ir Kit ette Housing responding to the Catalogue available with order, or by request. SAE piesse (9 - 4 ¹). Prices quoted are subject to stock availability and may be changed without notice. Orders from Govt institutions, Schools Refronders dec., accepted with official order. Phone **0902 29022** WE GUARANTEE THAT ALL VIDEO SPARES SUPPLIED BY US ARE OF THE FINEST OUALITY AND THAT ALL STOCKED ITEMS WILL BE DISPATCHED THE SAME DAY. 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VCR Clinic

Philips VR703/713/813

For intermittently ejecting the tape while in play or record, especially in the LP mode, and E4 or E5 in the error memory, check the amplitude of the reel tacho pulses. If they are low change the value of the opto pull-up resistors R3318/9 from $100k\Omega$ to $47k\Omega$.

Philips VR6585/Granada VHSGP7

There is usually, but not always, a mechanical cause for mechanical misalignment of the Panasonic G deck. In this case the cause was electrical. After replacing the stripped gears and checking the operation of the mechanism by rotating the drive by hand I connected the power. The mechanism took the cassette in but didn't find the half-load position. After four or five attempts the cassette would be ejected. Sometimes the capstan would run at full speed when the power was connected: as the motor didn't stop at the fully threaded position you would have to repair the gears again if you weren't quick to disconnect the power! We fitted a new mode switch and a new tray position switch, but the fault was still present. Fortunately we had a new stock machine of the same type, so we were able to do some panel swapping to localise the cause of the fault. This proved that the cause of the trouble was in the power supply. The output voltages were correct, but they dropped when the deck was in operation. A new CNX83A optocoupler put matters right.

Sony SLV373

Sony machines are not given to tape chewing. This one would damage the tape at the end of high-speed rewind however, especially if you went straight to eject. The cause of the trouble was that the take-up reel was being inadequately braked. This was because the felt pad on the brake shoe was skew-whiff. As a result it failed to contact the turntable rim. We restuck it with Superglue.

E.T.

Logik VR955/Samsung VI710

If the problem is no erasure (the old sound left on the tape and floating colour blobs on playback of the machine's own recordings) look no farther than L0504, which is a little oscillator module in a screening can. It's prone to staging a mini bonfire inside. Willow Vale can supply replacements under part number 79710CB.

E.T.

Sharp VCA140HM

When this machine had been running for about twenty minutes the capstan motor would start to stop for about half a second every few seconds, giving a momentary freeze-frame effect twice a minute. We found that the i.c. incorporated in the capstan motor was too hot to touch, so a new motor was fitted. This cured the problem. Note that a different capstan motor (part no. RM0TN2020GEZZ) is used in machines whose serial number is above 628200, as this one was. E.T.

Hitachi VTM820E

Sometimes – not often! – this machine would record and play with severe mistracking. Playback of a good recording would

Reports from Philip Blundell, AMIEIE Eugene Trundle, Michael Dranfield, Alfred Damp, Nick Beer, Brian Storm and Joe Cieszynski.

give no sound and multiple narrow noise bars across the screen – rather like the effect of cue-mode operation, but at normal speed. If by chance the fault was present during both recording and playback of the same programme the picture and sound came through quite well. Close examination of the deck when the fault was present showed that the tongue of the exit guide pole assembly failed to locate properly in its V block. The cause of this was that the plate assembly's inner slide bar (no. 216 in the exploded diagram in the manual) was bent upwards slightly. We judiciously bent it back downwards slightly.

Ferguson FV11R

The complaint with this VCR was that it kept stopping after about an hour's use. On test we found that the tape counter stopped counting. The cause of this turned out to be the famous loose deck earthing screw that provides the earth return for the take-up optosensor and the mode switch. What puzzled us was that in every previous case we've dealt with this screw has caused a loading fault when loose. Presumably a high-resistance connection was enough to upset the optosensor but not the input to the microcomputer chip from the mode switch. Incidentally the official cure is to fit a small shake-proof washer beneath the screw, not just tighten it. M.Dr.

Saisho VR3400

The problem was that the take-up reel wasn't being braked when stop was pressed during rewind, causing tape to be spilled into the machine. We've had this fault often enough with the Sharp VC8300, but in this case we were unable to find the brake. On the underside of the deck the take-up reel is obscured by the master cam: it looked like a fair old job stripping the lot down. A check on the supply spool however suggested that the brake was on the inside of the spool. After removing the take-up and supply reel discs the cause of the problem was clear. A small spring was missing. We assumed that it had never been fitted. When we'd found and fitted a suitable spring the machine functioned normally. M.Dr.

Sharp VC9300

This machine came in from another dealer with the suggestion that the 12V supply was missing. Sound was o.k. but there was no E-E or playback vision. Scope checks showed that the video signal was o.k. up to the HA11703 chip IC402 but didn't emerge at pin 16 of this chip. An incorrect d.c. voltage reading (12V) at this pin led us to check Q406 (2SC945) which was short-circuit collector to base. Hence the 12V at pin 16 of IC402. A new transistor put matters right – fortunately the chip hadn't been damaged.

M.Dr.

Ferguson FV26D

This machine came from another dealer with the complaint of no playback video. On test we found that the E-E picture seemed to be slightly over-modulated. There was a good f.m. envelope at pin 39 of the PB20166C chip IC101. Further checks on this i.c. showed that the output at pin 10 wasn't passing via LPF102 to reach pin 21. As we didn't have this

filter in stock we had to order one from CPC. It arrived next day. When we'd fitted it the machine was back in good working order.

M.Dr.

Hitachi VT220

This machine was dead with no switched 5V or 12V supplies. The display lit up and the operate LED was on continuously. We found that IC901's reset pin 49 was high at 5V instead of being at 0V. The reset pulse is generated within IC802 on the VS tuning PCB. A check at pin 9 of this chip showed that everything was in order. The collector and base of transistor QR804 were both at 5V however – the collector should have been at 0V. Replacing QR804 restored normal operation. A.D.

Hitachi VT63

The problem with this machine was overloaded video. A quick scope check revealed that the cause of the fault was at the front end, on the tuner/i.f. board. C832 (470µF) was short-circuit.

A.D.

Panasonic NV333

The reported problem was faulty audio. We found that the VCR also refused to work mechanically. The audio fault was in the E-to-E mode: approximately one second of audio was heard about every five seconds. The audio mute line was high most of the time but dipped low to allow sound to be heard intermittently. The audio mute command comes from the syscon chip IC6001. A check at its reset pin 27 showed that a continuous line of pulses were present here. The reason for this was traced to D6038 which was leaky.

A.D.

Panasonic NVMC20

There was a problem with this camcorder's electronic viewfinder. I replaced the c.r.t. as it had been cracked when the unit had been dropped. On soak test the new c.r.t. fired over and I was left with an overbright raster with flyback lines – vision was discernible. The d.c. conditions around the video output from the chip were low while they were high at the collector of the 2SA1532 video output transistor Q803, a tiny surface-mounted device. There should have been –11.9V here but there was over 1V. As there was –23V at pin 9 of the line output transformer we checked Q803 which turned out to be short-circuit collector-to-base.

Samsung VI710

The carriage was out of sync with the rest of the mechanism – there's no separate front-loading motor in these machines, the drive coming from the main mechanism loading motor. Retiming got the machine working but it would snap intermittently as teeth slipped. There was too much lateral play in the front-loading mechanism because of a crack in the right-hand black plastic sidepiece where the cogs mount.

N.B.

Panasonic NVL20

This G mechanism machine refused to load a tape because it had damaged gears. So out came the main cam gears (VDG0343 and VDG0346) which both had damaged teeth. The subloading cam gear (VDG0448) and arm (VXL1857) were also broken. Replacements were fitted, along with a new deck mode switch (VSS0175A) in case this was the source of the problem. In the test mode with the carriage out everything worked correctly. After refitting the carriage how-

ever I managed to jam the cassette across it. Instead of the machine stalling and ejecting the tape there was a raucous clattering of disintegrating nylon teeth, after which the machine sullenly powered down. Once more to the gear drawer.

In these machines the mechanism is driven by the capstan motor via a simple gearing system that's engaged by a solenoid. To prevent the full capstan torque damaging the nylon gears there's a friction clutch on the bottom of the capstan rotor: it's designed to slip before the gears are damaged. In this case the clutch was the cause of the problem – it was too tight. A replacement rotor and another set of gears restored normal operation.

B.S.

Panasonic NVJ30

This machine suffered from very intermittent capstan servo problems. After about three hours' operation the sound would start to wow and tracking bars would flash and flicker across the picture. Unfortunately the symptoms were erratic and couldn't be relied upon, so fault-finding of any sort was fruitless. Convinced that the cause of the fault was in the main systems and servo circuit we changed many i.c.s and capacitors in this area, but the fault continued to recur. After the machine had spent many weeks on the soak test bench the cause proved to be C1122 (330µF, 10V) in the power supply module. It was apparently going open-circuit when hot. **B.S.**

Panasonic NVF55

The complaint was of monochrome recordings and an unstable picture. On test however all that this modern Nicam machine would do was to display E9 in the self-diagnosis list. According to the service manual this means no serial data. The MN67431VREH systems and servo flat-pack chip IC6001 was totally inactive. A replacement got the machine working and we were then able to attend to the original complaint. This was dealt with by switching off the NTSC 4·43 switch which is meant for copying NTSC tapes only. **B.S.**

Ferguson 3V35

When switched on this machine was mechanically dead - it wouldn't even accept a cassette, though E-E came up. After ruling out such things as the cassette lift and the power supply we turned our attention to the system control section. A cassette was manually loaded and left in the unlaced position. The relevant logic conditions around IC201 were then checked. This showed that when any function was selected the microcomputer control chip would attempt to energise the relevant motors though nothing happened. At this point we discovered that circuit protector CP1 was open-circuit. It's on the servo/mechacon panel and is in series with the 13V supply to all the motors apart from the drum motor. With CP1 replaced the machine would load a cassette and fast wind was restored, but it still wouldn't thread the tape when play was selected. Further tests showed that the mode/lacing motor was open-circuit. A replacement restored full operation.

Ferguson 3V36

Sound problems are rare with these machines. One that had no E-E or playback sound came along recently however. We soon found that there was no d.c. supply to any of the sound chips on the main sound panel, which is mounted at the back of the chassis. The cause of the trouble was that the regulator transistor Q4 on the sound panel was short-circuit base-to-collector.

J.C.

Long-distance Television

Roger Bunney

The 1992 Sporadic E season has well and truly arrived. A look at the June loggings shows that there were prolonged openings on several days while one day in particular, the 22nd, produced some quite remarkable DX-TV results. Before listing the cumulative SpE log we'll briefly run through the other events of the month.

Iain Menzies noted an intense aurora during the early evening on the 8th: the v.h.f. reflection included some heavily distorted Band I TV pictures. A high-pressure weather system centred over the UK for much of the month produced some remarkably hot weather, reaching into the mid-80s (°F), and enhanced tropospheric propagation. There were two main phases. The 11-14th produced signals from the Benelux countries, France and Scandinavia. The peak day was the 14th, with signals from Denmark, Sweden, Norway, the Benelux countries - even Ireland. These Band III/u.h.f. signals were at high levels. Towards the end of this period signals also started to arrive from Spain in the south west. The first Spanish u.h.f. channels seen are usually E34, E37 and E42: it's worth keeping an eye on these channels when propagation from a southerly direction occurs. There was more tropospheric propagation on the 17th, which produced an even more intense opening with good reception from Scandinavia - even Danish Band I signals were received. Well done David Oliver (Birmingham) who received numerous Swedish second chain transmitters. Towards the end of the month, on the 27th, a very slight tropospheric lift brought signals on the usual Spanish u.h.f. channels to the south-west UK.

Now for the SpE log:

4/6/92 TVE (Spain) chs. E2, 3, 4; TDF (Canal Plus, France)ch.L3; RAI (Italy) ch. IA; +PTT (Switzerland) E2; plus Arabic signals - see later.

5/6/92 TVE E2, 3, 4; RTP (Portugal) E2, 3; RAI IA, B;+PTT E2, 3; TDF L2; HTV (Yugoslavia) E4; RTM (Morocco) E4.

6/6/92 TVE E2, 3, 4; RAI IA, B; TVA (Italy) E3; TDF L2,4; ARD(Germany) E2; HTV E3; TVR (Rumania) R1, 3; CSI R1, 2,3; SVT (Sweden) E2, 3, 4.

7/6/92 ORF (Austria) E4; CST (Czechoslovakia) R1; +PTT E2, 4;TVP (Poland) R2; DR (Denmark) E3, 4; CSI R1-5; SVT E2,3, 4; NRK (Norway) E2, 3, 4; MTV(Hungary) R1; RUV(Iceland) E4; TDF L2, 3; RAI IA, B; TVA E3; ARD E4.

8/6/92 DR E3; TVE E3; +PTT E2.

9/6/92 TVE E2, 3, 4; RAI IA; DR E3; ARD E2; CSI R1.

10/6/92 CSI R1, 2.

11/6/92 DR E3.

12/6/92 DR E3; +PTT E4.

13/6/92 TVE E2, 3.

14/6/92 TVE E2, 4; DR E3.

15/6/92 TVE E2, 4; +PTT E2, 3; ARD E2, 3; DR E3.

16/6/92 +PTT E2, 3; DR E3.

17/6/92 TVE E2, 3, 4; RTP E2, 3; RAI IA; CSI R1.

18/6/92 ARD E2; +PTT E2, 3; TVE E3.

19/6/92 RALIA; TVE E2, 3, 4.

20/6/92 TVE E2, 3, 4; TVE-2 E2; RAI IA, B; RTP E3;+PTT E2, 3;ARD E3, 4; SVT E2, 3; NRK E2; DR E3; HTV E3, CST R1.2.

21/6/92 TVE E2, 3, 4; TVE-2 E2; RAI IB; RTP E3; TDF L2.

22/6/92 TVE E2, 3, 4; TVE-2 E2; RTP E2, 3; RAI IA, B; TDF L2;CSI R2; NRK E3, 4; SVT E4; CST R2. Plus various Canadian signals, see later.

23/6/92 SVT E2, 3, 4; NRK E2, 3; RUV E4; HTV E4; TVE E2; RAI IA; CSI R1-5. Very weak ch. A2 signal at 0545.

24/6/92 DR E3; SVT E3; +PTT E2, 3; TVE E3.

27/6/92 SVT E2, 3; DR E3; ARD E3; +PTT E2, 3; RAI IA, B; HTV E3.

28/6/92 RAIIA, B.

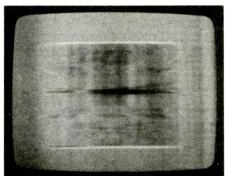
29/6/92 TVE E2, 3; HTV E3.

3/7/92 HTV E3, 4.

From 1930-2100 BST on the 4th there was notable reception of Arabic signals on ch. E3. Italian ch. IA signals were present at this time, which suggests that the Arabic reception was possibly via double-hop propagation. While a single Arabic station was predominant during this period at 2044 a second Arabic signal with captions was seen as a floater. The predominant signal consisted of an American movie with white Arabic subtitles: one of these signals was undoubtedly JTV Amman.

Monday the 22nd was another dramatic day, for Cyril Willis at any rate. At 1452 he noted a smeary, rolling ch. E2 picture: it was the Astra TCC channel but unlike the official transmission this one had subtitles. At 1500 he saw the same signal on ch. E2, without subtitles. Are Italian private stations maybe lifting the Astra downlink? At 2115 he found signals on ch. A3 (525 lines). Later, at 2235 onwards, he received 525-line signals on chs. A2, 3 and 4, with floaters. A check on the audio showed that these signals consisted of both English and French language programming. The signals were still present at 0100, but were very weak. A check on station lists led Cyril to the following possible source identifications: ch. A2 CBFT Montreal or CJBR Rimoushi (both in Quebec







Left: End of transmission logo from the Ekran satellite, received at 714MHz in Sri Lanka by Bandula Gunasekera. Centre: Egyptian second network clock received by Garry Smith (Derby) via F2 from Dumyaṭ ch. E2 (900W) in mid-February. Right: The 0286 CIS test card, designed in 1986.

with French language); ch. A3 CBHT Halifax, Nova Scotia (English – the ads mentioned St. Johns); ch. A3 CBWFT Winnipeg (rather far but no other French language station listed on this channel); ch. A4 CBOT Ottawa (English). A remarkable evening!

In all a fairly active month, especially so near to the cycle 22 sunspot maximum.

Our thanks to Cyril Willis (King's Lynn), David Oliver (Birmingham), Simon Hamer (Powys), Peter Schubert (Rainham), Roger Fussell (Torpoint), Garry Smith (Derby) and Iain Menzies (Aberdeen) for sending in reception reports..

News Items

Czechoslovakia: By the end of the year some sections of the Czech (CTV) and Slovak (STV) networks will have switched to full-time PAL transmissions using system D/K (6.5MHz sound-vision spacing). Regular test transmissions two days a week are being carried out during the summer. The main CST channel will continue to use SECAM to serve the half million or so SECAM only receivers in use. The new Bratislava transmitter will use PAL system B/G from the start. It's expected that the whole network will switch to PAL at some date in 1995.

Greece: It's expected that the new "Nea Tileorasis" channel will be providing a countrywide service by the end of the year.

France: The French/German ARTE channel is due to start transmissions shortly using the former La Cinq network.

Estonia: Estonian TV has formed a commercial offshoot called Reklaami TV (RTV).

Norway: The new TV2 network comes into operation on September 5th, covering 75 per cent of the population. Break-even for this commercial service is expected to be in late 1995. Headquarters for the service is at Bergen.

Finland: A new channel called MTV is to come into operation next January. This commercial channel has leased transmission time over the YLE-2 network.

The Netherlands: The American Forces u.h.f. transmitter at Soesterberg is to close at the end of the year. A new identification, "Nozema", is in use on the Dutch test pattern. The initials stand for Nederlandse Omroep Zender Maatschappij. Radio Microphones: Early radio microphones used in the broadcasting industry operated on specifically allocated spot frequencies around 170-180MHz and 200MHz. U.H.F. types operate in the low 470MHz band with a further allocation in ch. 35. Apparently many visiting pop groups from overseas find that their radio microphone kits are non-DTI approved and clash with local cellphone transmissions. The DTI has now approved a radio microphone band in ch. 69, with freedom to operate on any frequency within this spectrum. It seems that there are no standard international radio microphone frequency allocations.

Satellite TV

The BBC used HDTV equipment at the Centre Court, Wimbledon for internal demonstrations and HD-MAC transmissions via the Olympus satellite to Expo '92 in Seville. HDTV uplinks from Seville were transmitted via France Telecom to the IBC, Amsterdam, to the Eureka 95 HDTV conference in Rome and to Philips, Eindhoven for technical evaluation.

The Intelsat K satellite is now in orbit at 21.5°W. It has 16 Ku band transponders that can operate in the half-transponder mode to offer 32 links between North/South America and Western Europe. Brightstar and RAI have each leased two transponders, Brightstar for news feeds and RAI for direct-to-



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home transmissions to the Americas, probably scrambled.

The back-up Marco Polo satellite has been sold to Norwegian Telecom. It has been repositioned at 1°W where the other may join it once BSkyB services have ceased.

Intelsat has announced further orbital allocations: a parking slot for inclined orbit type V and VA craft at 40.5°W, resiting of the V F6 craft at 50°W and a slot at 91.5°E for the V F1 craft to provide improved Asian links. During the autumn of 1994 the Eutelsat II F6 craft will be co-located with the II F1 craft at 13°E, offering another 16 TV channels to bring the total to 39 channels from 32 transponders. The transponders run at 70W, providing an e.i.r.p. of 49dBW across Europe. Coverage in the widebeam mode will be from the Ukraine/Turkey to Morocco, Iceland and the far reaches of Scandinavia.

Star TV (Hutchvision) has started a multilingual channel via the Asiasat I craft, offering programmes in Hindi, Japanese, Bengali, Urdu and Arabic.

Strong rumours suggest that Filmnet will soon adopt D2-MAC with Eurocrypt via transponder 11 on Astra 1A. VisEurope is using Videocrypt via its Telecom Band news feed transponder.

The EBU's Euronews Editorial news service is to start on January 1st 1993.

Iran TV plans to start a two-channel service to Azerbaijan and Tajikistan. Turkey is already transmitting its Avrasya (Euro-Asia) service to Turkmenistan and neighbouring republics.

Broadcasting Technology

US firms Scientific-Atlanta and Mediatech are developing the first operational digital compression TV service. It will be used by Mediatech to distribute commercials direct to broadcasters via satellite and should prove the feasibility of using SA's VQ (vector quantisation) video compression technique. The VQ technique carries out compression on a frame-by-frame basis and is said to be more accurate than DCT (direct cosine transform) compression. It can carry additional information such as invoicing, timings etc. At its present stage of development the VQ technique enables up to four compressed TV channels to be carried in the space of a single standard analogue TV channel along with twenty high-quality audio signals. SA considers that VQ will eventually enable up to ten TV channels to be carried by a single transponder. Meanwhile the Comsat Corporation has filed with the FCC details of an offer to clients of satellite links using digital compression.

In the UK National Transcommunications is testing a digital compression system called SPECTRE. This is an ongoing programme that could lead to HDTV, possibly transmitted in parallel with the present PAL services.

Test Case 357

High summer is Victor-the-Vid's busiest time. He's in the business of recording weddings, parties, sports events and so on for posterity – at a price. With his little camcorder, his enhancer and title generator, his copyright-free music and his jog-and-shuttle home deck he'll turn the happy day into an epic. Extra copies £20 each.

Now Victor is given to tinkering with the miscellany of equipment he uses in his enterprises, and much of the gear is of uncertain age and origin. So when he pays a visit to the workshop, festooned with AV leads and with lenses, batteries and adaptors bulging from his pockets and soft carry-case, the technicians tend to become scarce.

As is usually the case with Victor and his wondrous works, there was on this occasion nothing simple about the fault symptom. Not for him a blocked head or blown fuse! The story went something like this. A recording had been made using his full-size VHS camcorder. Then, using a posh Panasonic edit deck, one of the very best available on the domestic/enthusiast market, parts of the sound track were over-dubbed. This process consisted of wiping out the 1mm wide longitudinal sound track on the original recording and replacing it with some locally-generated signal of Victor's own concoction.

The new sound track was fine when played back in the Panasonic wonder-machine. When it was played back in the camcorder that had been used to make the original recording however the sound track was marred by remnants of the original sound – the picture was fine. Weak and muffled the remnants may have been, and audible during only the quiet bits of the new sound track, but they were certainly there and that was no good to Victor. Why did he want to play the dubbed tape in the camcorder anyway? Because he'd found that there was less timing jitter (and thus less picture wobble) when a copy was taken from playback using the machine that made the original recording.

He played the tape once again in the Panasonic home

deck. There were no signs of audio crosstalk. He next selected a JVC HRD860 from his battery of VCRs. A test run showed that reproduction of the dubbed sound track was excellent, with no incursion of noise from the original track. When he fed the tape into a rather ancient GEC top-loader however our videographer's twitching ear once more detected a very slight double-track effect as he wound the TV set's volume control up and down. So he loaded the camcorder and the Panasonic edit/dub machine into his car and brought them to us, along with the offending tape, the inevitable hook-up leads and four closely-written pages of fault description on his Victor Video headed notepaper. Our man read through it, threw up his hands in horror and made his way down to the Nag's Head for lunch.

He thought about the problem over his pint and ploughman's in the pub's sunny garden. Could it be that the erase or record bias level in the Panasonic machine was incorrect? If the machine hadn't erased the original sound completely in the dub mode how was it that some VCRs were able to play back a pure sound signal? Maybe the bias/erase oscillator's frequency was wrong.

While our technician considered all the symptoms, aware of the fact that V-the-V may have been in the old GEC machine (and even maybe the camcorder!) at some time, an idea dawned upon him. It was something that would be easy to check in the workshop. When he returned he got busy and found that he was right. The fault was soon cleared, without the need for any replacement components. What had been the cause of the trouble? For the answer and another item in the test case series see next month's issue of *Television*.

ANSWER TO TEST CASE 356 —page 740 last month—

The symptom described last month used to be called ringing. And ringing it usually was: an inductive component associated with the line scan coils, or even the coils themselves, would produce a little oscillation initiated by the line flyback pulse. This damped oscillation would alternately accelerate and slow down the progress of the electron beam(s) at the start of their forward scan(s). As the brightness of the spot is proportional to its speed, the result would be alternate light and dark areas. A slow beam is bright, a fast one dim. Velocity modulation is the posh term for this effect, which is nowadays used in some sets to sharpen the vertical edges in the picture – but we digress.

If Roger had closely examined the line scan current in the set under investigation – maybe compared it with the current flowing in another set of the same type – he would have found that it was quite normal. The fault was in fact due to intensity modulation of the electron beams. Not at the cathodes or grid, which had already been checked, but at the tube's first anode where Television Ted's oscilloscope showed a line-rate waveform at about 50V peak-to-peak. Much of it took the form of a sinusoidal wiggle just after the line flyback pulse. It came from the line output transformer's overwinding and was modulating the first anode voltage because the 10nF, 2kV decoupling capacitor C901 had failed – it was virtually open-circuit in fact.

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Satellite Notebook

Nick Beer

A visit to Pace at Shipley has enabled me to get clarification on the spares position – you may recall the problems I mentioned last month. The visit itself will be the subject of a forthcoming article.

Pace Spares

Pace will deal on a pro-forma basis with dealers/service centres where this is required. As I discovered during my visit, the company's spares stocks are incredible. Pace has appointed CPC of Preston as its main spares supplier for the UK however. The arrangement with HRS dates from an earlier time, before this company was taken over by the Ring Group. HRS can still supply spares, but on more of an "as required" basis. CPC on the other hand hold Pace supplied stocks at a minimum agreed level as models reach certain ages or production points. In fact CPC is able to offer a "total spares support" service.

On my return to Devon I was greeted by a fax from CPC and subsequently received copies of the company's catalogue along with various newsletters and supplements. It looks as if the service provided is good. CPC can be contacted on 0772 555 034, fax 0772 201 905.

Satellite Servicing Book

For several years now U-View has been publishing servicing data books on TV chassis and VCRs. They provide circuit diagrams and, where available, layouts, board interconnection diagrams, alignment details and so on. Mick Dutton has reviewed them in the past in these pages. I'd say that they are essential if you service all brands and don't hold all the official manuals. The latest addition to U-View's servicing series is *Satellite Servicing 1987-90*. It provides circuit diagrams and other data and information from the majority of firms active in this field. An index doubles as a cross-reference guide to similar models.

Each section contains, in varying degree, a specification, block/interconnection diagrams, a parts list, an exploded diagram of the mechanics and details of the dish hardware supplied and plug-socket connections for special decoder plugs etc. – all this is addition to the circuit diagram. Remote control handsets are not overlooked where the information is available from the manufacturer.

I was surprised at the scope of the publication's coverage. IRDs such as the Ferguson SRV1/Pace SS9000 and the Ferguson SRD4 are included despite being of recent introduction. I couldn't help but smile when I turned the pages and found the Ferguson SRB1 BSB unit. Ironic that probably the most advanced and complex piece of electronics featured in the book is now virtually redundant. The "traditional" satellite receiver manufacturers such as Echostar, Connexions, Channel Master and Triax are well represented alongside the more familiar setmakers such as Ferguson, Grundig, Panasonic, Sony and Amstrad. The inclusion of Panasonic intrigued me. This company's policy on providing technical data seems to change with the wind. The firm has maintained that it will supply information only to its own dealers and doesn't encourage third-party servicing, yet we find details of the TUS100. Good going, U-View!

The book is reassuringly strongly made and the binding is

such that wherever you open it the book lays flat – you don't have to continually flick the page back and the need to have the meter on one corner to keep the book in place is nil! A new volume covering subsequent models will be published later this year. I'm told that even more manufacturers will be represented – almost one hundred per cent in fact.

At £55 plus £4 post and packing (there's no VAT on publications) this manual represents extremely good value for money. If you service only one brand however you won't save much, if anything – you could purchase all the Ferguson manuals for far less for example. But think about this. If you have the equipment to be able to work on almost any type of receiver why not take on other makes? Many satellite TV installers, especially of the aerial rigger type, have no means of repairing receivers other than to return them to the distributor or manufacturer. Thus in many areas there's a need for a local repair service. You might find that there's an opportunity to do good business.

My thanks to Roger Yaxley of U-View for sending me the book for review. It can be obtained, along with the various TV and VCR servicing volumes, from U-View, 29 Warmsworth Road, Doncaster, South Yorkshire DN4 0RP – telephone 0302 855 017, fax 0302 855 267.

Marco Polo

The news that BSkyB has sold its back-up Marco Polo satellite to Norwegian Telecom means that services from the satellite should continue. A subsidiary of Norwegian Telecom, Tele-TV, plans to start a five-channel service in the autumn. As to whether you'll be able to use those BSB receivers, this depends of course on the transmission standard, though apparently the receivers can be changed from D-MAC to D2-MAC operation if required. It also depends on how much English language programming will be featured or whether you can cope with Norwegian. In preparation for the Tele-TV service the Marco Polo satellite has been moved to a new orbital position at 1°W. Changing to D2-MAC and reorientating the aerial, whether dish or Squarial, enables French signals from the TDF-1 satellite at 19°W to be received. A dish would be required for the German signals from this satellite since these are transmitted with left-hand circular polarisation - the BSB Squarials will receive only right-hand circularly polarised signals (in fact the rejection of LHCP signals is typically -25dB).

The Squarial

Little has been published on the construction of the Squarial apart from a chapter in John Breeds' Satellite Book. Briefly, the BSB Squarial consists of an array of 256 circular aerial elements laid down on a PCB in the form of a 16 x 16 matrix. Each element acts as a tiny slot aerial, with two probes mounted 90° apart to pickup the signal energy. It follows that there has to be a 90° phase shift in the connections to the two probes. Each pair of probes is linked to all the others so that the signals add to provide an adequate output to feed to the LNB. The difficulty with this arrangement is that there must be no phase differences between the signals from the 256 elements otherwise signal cancellation will occur. Thus the Squarial was tricky to design and expensive to manufacture. The spacing between the circular element centres is 2.25cm, which is about 0.9 times the wavelength (this gives maximum gain). For LHCP the 90° shift networks between the probes have to be laid down differently. For linear polarisation the slots should be rectangular.

Mounting the Squarial "diamond" fashion minimises the sidelobes in the polar response.

THE SATELLITE BOOK

A Complete Guide to Satellite TV Theory and Practice

John Breeds

Second Edition



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58. £4.00	CNX62A	£4.50	LA4140	€0.70	M51516 £4		AA1124 £3.95	STK5315	£6.50	TA7243	£3.30	TDA1011	£1.20	TDA2560	£3.75	TMS1956	£2.30	2SC2577	
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18. £1.20	HA1124A	£1.75	LA4440	£1.30			AA1293-02 £8.00		£4.00	TA7274	£2.60	TDA1022P	. £4.50	TDA2579	£3.50	U416B	£1.60	2SC2655	
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2. £2.10	HA11701	£3.10	LA4460	£1.70	M54548L £4		AA5010 £5.80	STK5361	£6.25	TA7281	£2.75	TDA1037	£2.90	TDA2582	£2.55	UA78M15	£2.00	2SC3153	
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3. £2.00	HA11747A	£12.75	LA5522	£2.20	M708£5		AA5030 £9.00	STK5451	£5.30	TA7303	£1.10	TDA1082	£3.50	TDA2594	£3.00	UPC1225H	£2.75	2SC3715	
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DIODES AND THYRISTORS BA157	£1.50	TRANSFORMERS	VR6843 Reel Drive Pulley £9.00 PANASONIC (All Original)	Video Cassette Lamps from \$0.50 CRT Anode Caps \$0.60	
BR100 £0.20 IN4001 BR101 £1.40 IN4002	£0.06 £0.06	LOPT Hitachi CPT1476 £18.00 LOPT Hitachi CPT2276 etc £19.00	NV370 Idler Arm Unit VXP0521 Gen. £3.00	Video Tape Splicing Kit £6.95	
BR103 £0.75 IN4004 BR303 £1.50 IN4005	£0.10 £0.10	LOPT Matsui 1440 £18.00	NV8600.8610 Play Idler VXP0243 £0.95	Hitachi TV Frame Module HM6251	
BRY56 C0.75 IN4006 BT116 E2.50 IN4007	80.03 80.03	Trip Grundig CUC2401 etc	NV332,777,788 Idler Unit VXP0463 £3.00 NV600,688 Idler VXP0515 £3.00	Hitachi TV Frame Module HM6232 £5.50 Cassette Housing Assembly Ferguson	
BT128P £4.50 IN4148 BT129P £4.50 IN5408 BT151/800R £1.75 KBL08	£0.10 £0.25	Decca 100 9.50	NV333,366 idler Arm 2 Unit VXL0997 . £10.50	3V35.36,38,39,42,43,44 £25.25	
BT151/800R £1.75 KBL08 BY126 £0.20 OA91 BY127 £0.08 OT112	£1.95 £0.20 £2.20	ITT CVC20	NV8400,8600,8610 etc. VXP0245	Cassette Loading Roller Assembly 3V23, 3V31, 3V32	
BY133 £0.20 RGP15G BY164 £0.90 RGP15J	£0.45 £0.55	ITT CVC25/30/32 9.50 ITT Compact 80 Series 110 16.75	7800 ldler VXP0344 £0.90	5.5V Back Up Cap £1.85 Degaussing Positor Blue £3.00	
BY164/SKB2/02 £0.90 RGP15K BY179 £1.10 RGP30K	£0.35 £0.70	ITT Compact 80 Series 90 19.75	NV2000,3000 Play Idler VXP0331- NV2000.3000 Idler Unit VXP0329 £1.10	Degaussing Positor White £1.30	
BY179/SK2/08 £1.10 RHI BY184 £0.65 RM11C	£1.30 £0.45	ITT CVC45 18.00 ITT 1109F 14.00	G Mech. Play Gear VXL1490 £1.90	Cassette Housing Assembly Hitachi VT11£19.50	
BY189	£8.50 £12.00	ITT CVC1204	Back Tension Bands From £1.50 All Panasonic Maintenance Kits POA	End Sensor for Hitachi VT63,64,65	
BY223 £2.00 SKB/02 BY206 (BYB96R) £0.55 SKB/08 BY210/800/BYV96 SKB2/02	£0.60 £1.20 £0.90	ITT CVC800/1/3 21.50 ITT CVC1100 16.50	QUOTE PANASONIC PART No.	(Pair) £2.75 Cassette LED Sensor for Panasonic etc £1.60	
£0.55 SKB2/08 BY227 £0.20 SKE1/02	£1.10 £0.60	ITT CVC1150/1175 20.00	FOR PARTS NOT LISTED	I.C. Circuit Protectors £0.60	
BY228 £0.50 SKE1M15 BY229 £1.15 SKE2G2/02	£0.65	ITT 3546	SANYO	Clear Service Cassette £5.90 Matsui/Saisho Limiter Post £1.75	
BY299 £0.50 SKE2G3/04 BY96D £0.30 SKE4F1/04	£1.30 £0.45	Other ITT transformers available	Idler VHR1100,1300,1500	Cassette Housing Modification Kit for Sharp VCA113HM Series. Includes cassette switch	
BYV96D £0.55 SKE4F1/06. BYW56 £0.50 SKE5F3/10. BYW96E £0.50 SR2M	£0.45 £2.20 £0.75	Fidelity all models up to 20" ZX3000 15.50	Reel Drive Pulley Unit	and star sensor PCB. Fault symptom No eject &	الحكوا
BYX10 £0.50 T9053V BYX55/600 £0.55 T9064V	£1.40 £2.28	Fidelity Panel for ZX2000 1.00 Fidelity 22" ZX3000 18.50	VTC5000.5150,6500 £5.00 Idler Roller Assembly	intermittent load/unload. £6.50 Video Idlers Spring Kit £5.95	
ASK FOR SEMICONDUCTORS NO		Hinari CT4/5 & TVA1 14.75	VTC5000.5150,6500 £2.25	Video Washer & E Clip Kit £5.50	
VIDEO HEADS	SLA)	Philips KT3 12.95 Thorn TX100 Green Spot 110 16.75	SHARP	Universal Video head Puller From £7.90 Akai VS22 Series Power Supply Mod. Kit .£18.00	
AMSTRAD 3HSSR-VCR7000 (Saisho/Orion)	£16.00	Ferguson TX90 LOPT specify	Idler VC9300.9500 etc. £1.75 Idler VC481,581 etc. £1.95	MODE SELECT SWITCHES	
PSF1-VCR4500,5200,9000 PSF2-VCR4600,4700	£15.00 £14.00	size/screen 17.75 Ferguson 3V35/36 Mains Transformer 23.00	Idler (original) VC9300,481.581 etc. £3.50	MANY OTHER VIDEO AND	
PSF3-VCR6000	£17.00	Ferguson 3V44/44/45 Mains Transformer 18.85	Idler Assembly (original) VC651,681,685	TV SPARES IN STOCK	
FERGUSON 3HSSV-2 Head universal 3HSSVA-3V42,44,45,46 etc.	£7.50	Sony - Please state model for price	Idler Assembly (original) VC780,781,785,787,	Back Tension Bands in Stock for Akai, Fisher, Hitachi, Ferguson, JVC, Mitsubishi, Panasonic,	
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3HSS4VC-3V48/HRD565	£26.00	Decca 120/130 series tripler 8.50	AMSTRAO	Maintenance Kits available for Alba, Amstrad, Ferguson, Fisher, Goldstar, Goodmans, Gran-	
12,13,14,20,21,26 And most other Fergusons	PNA	Thorn TX10 Focus Unit Kit 10.00 Hitachi and Matsui LOPTs in stock	4500,4600 MOD KIT INCLUDES PINCH ROLLER AND IDLER CLUTCH	ada, Hinari, Hitachi, JVC. Matsui, Mitsubishi,	
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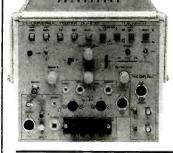
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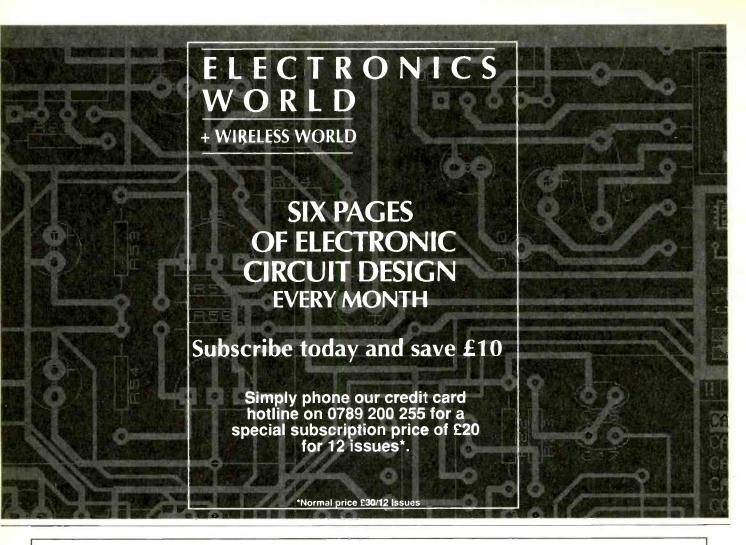
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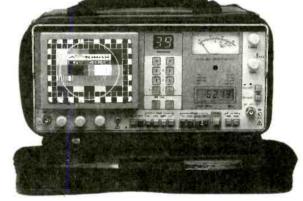
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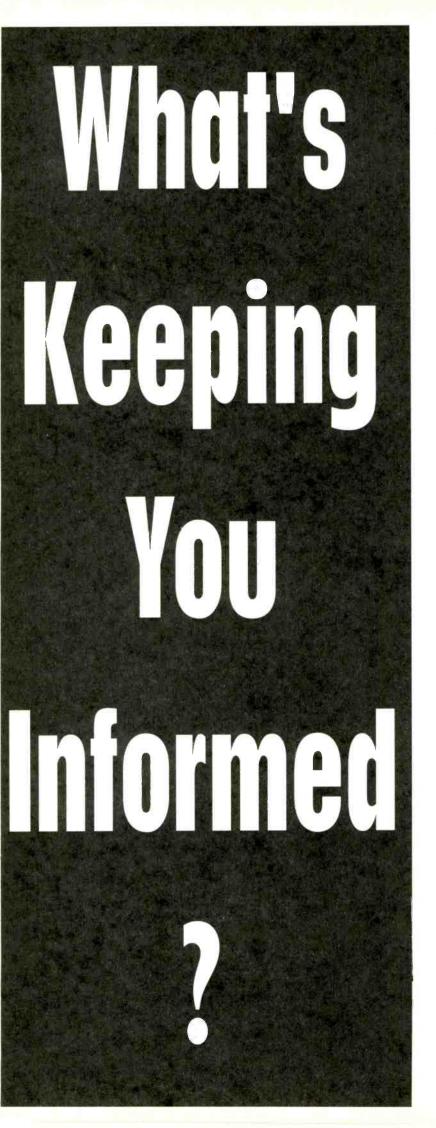


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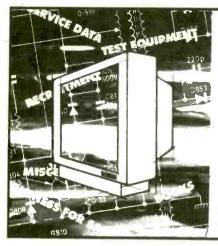
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VIDE DOT FIGHER I VITTIES	27.70
VIQ2502 AM\$1RAD VCR4500-9000	14.58
VID2503 HITACHI VT4000-5000	14.93
VID2504 HITACHI VT11 VT33	15.93
VID2505 HITACHI VT7	23.19
VID2506 HITACHI VT34	14.06
VID2507 HITACHI VT35	34.31
VID2509 HITACHI VT9300	14.93
VID2511 FERG 3V00-3V29	7.35
VID2512 FERG 3V32	23.56
VID2517 MITSUBISHI HS300-302	30.63
VID2518 AMSTRAD VCR7000	15,62
VIO2520 PANASONIC NV333	7.35
VID2527 PANASONIC NV180	34.19
VID2528 PANASONIC NV730	29.94
VID2529 PANASONIC NV430-NV460	20.00
VID2531 SANYO VTC9000	29.69
VID2530 SANYO VTC5000	23.75
VID2536 SHARP VC200-UC330	14.31
VID2537 SHARP VC381	18.44
VID2543 SONY SL8000	15.88
VID2545 SONY SL-C20	18.75
VID2544 SONY SL-C9	32.50
VID2546 SONY SL-C5-SL-C7	14.38
VID2573 FERG 3V42-3V45	18.75
VID2583 SANYO VHR110	20.69
VID2584 SANYO VHR1300	23.44
VID2595 PANASONIC AG1000E/EN	26.75
VID2597 TOSHIBA V73-V81	20 69
VID2607 MITSUBISHI HS318	42.38
VID2606 MITSUBISHI HS307	71.56
VID2621 PHILIPS VR6760	55.44
VID2626 HITACHI VT100 SERIES	35.69
VID2627 HITACHI VT130	32.50
VID2628 HITACHI VT61-VT64	24.25
VIO2630 HITACHI VT65	37.31
VID2645 GOLDSTAR GHV-12XX	19.38
VID2647 FERG 3V39	7.44
VID2648 SAMSUNG 500-900 SERIES	
VID2666 PANASONIC NV688	43.13
VID2676 AMSTRAD VCR4600	19.59
VID2708 HINARI VXL7	24.31
VID2713 SENTRA VX8400	22.31
VIO2732 AMSTRAD VCR6000	16.56
VID2738 PANASONIC NVG18 VID2547 TOSHIBA V5470/V5480	28.69
	20.94
VID2548 TOSHIBA V9600	19.69 45.06
VID2549 TOSHIBA V8600-V8700 VID2552 PHILIPS VR2020-VR2021	71.25
VID2552 PHILIPS VR2020-VR2021 VID2558 PHILIPS VR6462	65.88
VID2569 MITSUBISHI HS303-HS700	32.19
	32.13
IDLERS	

VID2558 PHILIPS VR6462	65
VID2569 MITSUBISHI HS303-HS700	32
IDLERS	
VID1000 SONY REPLACEMENT KIT	
SL-CS	4.
VID1006 PHILIPS VR6860-VR6863	2
VIO1007 AKAI VS1-VS15EG	5
VID1013 FISHER GEAR FVH-P615	4.
VID1014 FISHER HEART FVH P615	2.
VID1015 FISHER TAKE UP FVH P520	3.
VID1016 FISHER WIND ROLLER	
FVH-P520	0.
VID1019 HITACHI ARM FF VT9300	2.
VID1020 HITACHI ARM FF REW VT11	1.
VID1021 HITACHI LOADING VT5500	7.
VID1022 HITACHI PLAY VT5000	3.
VID1023 HITACHI VT8000-	
VT8300 IDLER	2
VID1024 TOSHIBA PLAY V5470	10
VID1026 FERG REWIND 3V00-3V16	5.
VID1027 FERG UNLDADING	
3V00-3V16	8.

	IO LETTO DOM.		
Price	Part No Description	Price	Part
15.62	VID1031 FERG TAKE UP CLUTCH		VID1
24.43	3V36-3V49 VID1036 FERG REEL IDLER 3V29	2.03	VID1
14.58	VID1036 FERG REEL TOLER 3V29	221	VID
14.93	3V29	2.17	ASS
15.93	VID1038 FERG TAKE UP IDLER 3V29	1.09	VID1
23.19	VID1039 FERG REEL IDLER 3V35	2.59	VCR
14.06	VID1044 PANASONIC IDLER NV7200	3.43	VID1
34.31	VID 1045 PANASONIC PLAY IDLER	0.83	VID1 GEA
14.93 7.35	NV8600 VID1046 PANASONIC FF IDLER	0.03	GEA
23.56	NV8600	0.98	
30.63	VIO1048 PANASONIC PLAY IDLER		VID7
15,62	NV333	2.38	VID
7.35	VID1049 PANASONIC IDLER		VID?
34.19	NV332 VID1052 PANASONIC IDLER	2.87	VID
29.94	NV370	1.61	VID
20.00	VID1053 PANASONIC IDLER		VID7
29.69	NV730	3.01	VID
23.75	VIO1054 PANASONIC IDLER		VID:
14.31	NV2000	0.77	VID
18.44	VID1055 PANASDNIC PLAY IDLER NV2000	0.84	VID
16.88	VID1056 PANASONIC FF REW	0.04	VIO:
18.75	NV7200	0.77	VID
32.50 14.38	VID1057 PANASONIC IDLER		VID
18.75	NV333	0.74	VID
20.59	VID1059 SHARP IDLER VC9300	1.47	VID:
23.44	VID1060 SHARP IDLER VC387 VID1075 HITACHI PLAY IDLER	1.47	VID
26.75	VT9300	3.50	VID:
20 69	VIO1076 SANYO ROLLER REEL		VID
42.38	DRIVE VHR1100	5.70	VID
71.56	VIO1078 SANYO PULLEY REEL		VID
55.44	DRIVE VTC5000 VID1077 SANYO PULLEY REEL	5.25	VID
35.69	DRUM M10-M50	5.53	VID
32.50	VID1080 FERG TYRE 3V29-3V38	0.63	VID
24.25	VID1092 FISHER REEL UNIT		VID:
37.31 19.38	FVH P905	5.18	VID VIO VIO
	VID 1099 FERG CASS HOUSING	21.95	VIO:
7.44	ASSEMBLY 3V35 VIO1200 SHARP VC684	21.90	AID
43.13	REEL DRIVE	7.42	VID:
19.69	VID 1211 HITACHI VTII		VID
24.31	CLUTCH UNIT	9.10	VID:
22.31	VID1213 HITACHI FF REW ARM	2.02	VID
16.56	VT100 VID1221 PANASONIC CAM GEAR	2.03	VID:
28.69	NV7200	1.13	VID
20.94	VID1225 AMSTRAD CLUTCH RF		VID
19.69	VCR4500	3.83	VID
45 06	VID1226 AMSTRAD CLUTCH		A1D.
71.25	VCR4500 VIO1227 AMSTRAD GEAR HOLDER	4.20	VID
65.88 32.19	VCR4500	11.90	VID
32.19	VID1230 AMSTRAD CLUTCH RF		VID
	VCR4600	6.09	VID
	VID1254 PHILIPS MODIFICATION		VID
4.55	SET VID1255 PHILIPS REEL DRIVE UNIT	9.66	VID
2.59 5.25	VR6943	5.67	VID
4.06	VIO1265 NEC REEL DRIVE PULLEY		VID
2.59	N9013	4.62	VID
3.99	VID1293 FISHER SUPPLY REEL		VID
	* TABLE TYRE VID1295 FISHER TAKE UP REEL	0.63	VID
0.77	FVH-P615	7.13	VID
2.45 1.75	VID1300 HITACHI TYRE REEL TABLE		VID
7.43	VID1315 FERG CASS HOUSING		VID
3.75	ASSEMBLY 3V42	21.95	VID
	VID1316 HINARI CLUTCH		VID
2 66	VXL-25-VXL-35 VID1317 HINARI IDLER	5.48	VID
10 28 5.53	VXL-F25-VXL-F35	3.23	VID
5.50	VID1319 SANYO SUPPLY REEL		VID
8.68	VTC-M10-VTC-M21	8.63	FVH

0.49 4.20	TDA2525 3.52 TEA7165 TDA2530 3.15 TL071CP TDA2532 1.75 TL494CN	4.20
1.05	TDA2530 3.15 TL071CP TDA2532 1.75 TL494CN	0.30 0.95
Price	IDLERS — cont. Part No Description	Price
	VID1346 SAMSUNG 900 SERIES	
2.03	IDLER VID 1361 INC BRAKE PAD	3 15 0 36
-	VID1361 JVC BRAKE PAD VID1363 JVC ROLLER BAR	
2.17 1.09	ASSY VID1364 AMSTRAD IDLER	3.71
2.59	VCR6000-VCR6100	2.10
3.43	VID1368 AKALIOLER VX-100 SERIES VID1370 PANASONIC CLUTCH	1.26
0.83	GEAR NV370	1.80
0.98	BELT KITS	
2.38	VID7506 FERG 3V00 - 3V22 VID7507 SANYO VTC9100 - VTC9300	1.33
2.87	VID7507 SANYO VTC9100 - VTC9300 VID7509 SONY SL:C56 - SL:C78 VID7510 SHARP VC6000 - 6300	1.40 2.03
2.01	VID7511 HITACHI VT5000	1.40
1.61	VID7512 HITACHI VT680	0.98 0.49
3.01	VID7513 SANYO VTC5300 - VTC5400 VID7514 SANYO VTC5500	0.49
0.77	VID7515 HITACHI VT7000 – VT8500 VID7516 FERG 3V24	0.91 0.91
	VID7516 FERG 3V24 VID7518 FERG 3V23 VIO7519 SONY SL-C6	0.84
0.84	VID7519 SUNY SL-U6 VID7520 PANASONIC NV7000-7200	1.12 0.98
0.77	VID7520 PANASONIC NV7000-7200 VID7521 PANASONIC NV333-NV366	1.26 2.45
0.74	VID7522 SHARP VC8300 VID7523 FERG 3V32	1.20
1.47	VID7524 AKAI VS1-VS5 VID7525 AKAI VS4-VS15	0.98
	V/ID7527 AKALV/\$9700	1.96
3.50	VID7529 PANASONIC NV777-NV788 VID7530 PANASONIC NV370-NV850	2.24 1.12
5.70	VID7531 PANASONIC NV230-NV430 VID7532 FISHER FV11 SERIES	1.50 1.61
5.25	VID7533 SANYO VTC5000-VTC6000	0.49
5.53	VID7537 FERG 3V41	0.90 1.05
0.63	VID7538 HITACHI VT11-VT30 VID7539 HITACHI VT7-VT8	0.75
5.18	VID7540 FERG 3V42-3V55 VID7543 FERG 3V35-3V36	0.77
	VIO7545 SHARP VC2300 VID7546 SHARP VC9300-VC9500	0.90
21.95	VID7546 SHARP VC9300-VC9300 VID7547 SHARP VC481-VC486 VID7550 AMSTRAD VCR7000	0.84 0.90
7.42	VID7550 AMSTRAD VCR7000 VID7554 SHARP VC9700	0.91 2.10
9.10	VID7558 SANYO VHR1100-VHR1500	2.03
2.03	VID7559 MITSUBISHI HS318-HS410 VID7562 TOSHIBA V31-V33	2.85 1.75
	VID7566 ORION VH1440-VH1660	1.05
1.13	VID7568 FISHER FVH-P97SK VID7569 FISHER FVHP90S	2.40 2.59
3.83	VID7570 AKAI VS-100 SERIES VID7576 SANYO VHR2300-VHR2700	7.21 3.23
4.20	VID7582 HITACHI VT100 SERIES	6.75
11.90	VID7583 HITACHI VT64 VID7588 PHILIPS VR6467-VR6760	3.29 1.33
6.09	VID7592 AMSTRAD VCR4500-9000 VID7593 AMSTRAD VCR4600-5200	1.05
	VID7596 MULTITECH MVO90	3.08
9.66	VID7600 MITSUBISHI HS300-400 VID7601 NEC N-9100	2.85 2.85
5.67	VID7602 SANYO VHR3100F	1.68
4.62	VID7605 SHARP VC7800 VID7606 SENTRA VX8400	2.25 2.24
	VID7615 HINARI VXL7 VID7800 PANASONIC NV2000	3.43
0.63	VID7802 HETACHE VT9300-VT9700	1.58 0.84
7.13 0.68	VID7804 SHARP VC7300-VC7500 VID7805 SHARP VC8000	1.68 1.68
		0.84
21.95	VID7807 PANASONIC NV777 VID7809 SANYO M10-M50 VID7810 TOSHIBA V9600	1.05 0.49
5.48	VID7810 TOSHIBA V9600 VID7812 FERG 3V29 3V50	0.75
3.23	VID7813 FISHER FVHP710-FVHP725	1.12 1.19
8 63	VID7814 FISHER FVH-P905 FVH-P910	1.19
0.03	r vice 310	1.19

	1.80	VID1764 PHILIPS VR6580-VR6581	3.15
		VID1787 177 VR3917	2.73
_	_	VID1788 HITACHI VTII	2.73
	1.33	VID1800 SONY SL-C20€	3.08
00	1.82	VID1802 SONY SL-C9C	2.78
	1.40	VIO1803 PHILIPS VR6420	3.57
	2.03	VID1805 FERG 3V33	2.73
	1.40	VID1806 SHARP VC220 VID1808 MITSUBISHI HS306-410	2.73
00	0.98	VID1810 FISHER FVH-P615	2.94
, C	0.49	VID1811 AKAI VS201	3.01
)	0.49	VID1812 AKAI VS 9700EC	3.00
,	0.91	VID1813 FERG 3V35-3V55	2.73
	0.84	VID1824 FERG 3V29-3V32	2.73
	1.12	VID1815 SHARP VC481-VC581	2.94
	0.98	VID1816 PHILIPS VR2020	2.80
ô	1.26	VID1817 JVC HRD430-HRD470	
,	2.45	VID1818 HITACHI 6384222	4.55 2.73
	1.20	VID1819 TOSHIBA V8600	9.75
	0.98	VID1820 AKAI VS100 SERIES	2.94
	0.84	VID 1821 PANASONIC NVH65	14.33
	1.96	VID1822 SHARP VS651, VS682.	
В	2.24	VS684	2.94
3	1.12	VID1823 PANASONIC NVM1/3/5	13.58
Ď	1.50	VID1827 PHILIPS VR6362	5.39
	1.61	VID1830 AKAI VS75	7.67
)	0.49	VID1833 FISHER FVH-P10	2.87
	0.90	VID1835 JVC GR45	8.25
	1.05	VID1837 SANYO VHR4100	3.15
	0.75	TENSION BANDS	
	0.77		
	0.84	VID1372 AKAI VS1	2.59
	0.90	VID1373 AKAI VS105	1.96
	0 84	VID1375 AKAI VS35	2.52
	0.90	VID1376 FISHER FVH-P615	1.96
	0.91	VID1377 FISHER FVH P5000	2.17
	2.10	VID1378 FISHER FVH-P520	2.17
Ю	2.03	VID1379 HITACHI VT11	2.17
0	2.85	VID1380 HITACHI VT6500	2.10
	1.75	VID1381 HITACHI VT8000	1.80
	1.05	VID1382 HITACHI VT9700	1.80
	2.40	VID1383 HITACHI VT410	1.80
	2.59	VID1384 FERG 3V33 VID1386 FERG 3V59	3.38 2.38
90	7.21		
NU.		MONTON BACHODASS	
	3.23	VID1387 JVC HRD455	2.31
	6.75	VID1387 JVC HRD455 VID1388 FERG 3V48	2.31 1.96
	6.75 3.29	VID1387 JVC HRD455 VID1388 FERG 3V48 VID1389 FERG 3V29	2.31 1.96 1.54
	6.75 3.29 1.33	VID1387 JVC HRD455 VID1388 FERG 3V48 VID1389 FERG 3V29	2.31 1.96 1.54 2.31
)	6.75 3.29 1.33 1.05	VID1387 JVC HRD455 VID1388 FERG 3V48 VID1389 FERG 3V29	2.31 1.96 1.54 2.31 3.22
)	6.75 3.29 1.33 1.05 1.47	VID1387 JVC HRD455 VID1388 FERG 3V46 VID1389 FERG 3V29 VID1390 FERG 3V24 VID1391 FERG 3V22 VID1392 FERG 3V23	2.31 1.96 1.54 2.31 3.22 2.55
)	6.75 3.29 1.33 1.05 1.47 3.08	VID1387 JVC HRD455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1390 FERG 3V24 VID1391 FERG 3V22 VID1392 FERG 3V23 VID1393 MTSUBISHI HS400	2.31 1.96 1.54 2.31 3.22 2.55 2.55
)	6.75 3.29 1.33 1.05 1.47 3.08 2.85	VD1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1399 FERG 3V24 VID1391 FERG 3V22 VID1392 FERG 3V23 VID1393 MITSUBISHI HS400 VID1394 MITSUBISHI HS437	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.93
)	6.75 3.29 1.33 1.05 1.47 3.08	VID1387 - IVIC HRD455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1390 FERG 3V24 VID1391 FERG 3V22 VID1392 FERG 3V23 VID1393 MITSUBISHI HS400 VID1394 MITSUBISHI HS407 VID1394 MITSUBISHI HS407 VID1395 MITSUBISHI HS307 VID1395 MITSUBISHI HS307 VID1395 MITSUBISHI HS307 VID1395 PANASONIC NV7000	2.31 1.96 1.54 2.31 3.22 2.55 2.55
	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1399 FERG 3V22 VID1399 FERG 3V22 VID1392 FERG 3V22 VID1393 MTSUBISHI HS400 VID1393 MTSUBISHI HS400 VID1394 MTSUBISHI HS407 VID1395 PANASONIC NV7000 VID1396 PANASONIC NV7000	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.93 2.55
)	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1390 FERG 3V24 VID1391 FERG 3V22 VID1391 FERG 3V22 VID1393 FERG 3V23 VID1393 MTSUBISHI HS400 VID1394 MTSUBISHI HS337 VID1395 PANASONIC NV7000 VID1395 PANASONIC NV2000 VID1397 PANASONIC NV2000 VID1397 PANASONIC NV2033	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.55 2.93 2.55 4.65
)	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.25 2.24	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1399 FERG 3V24 VID1391 FERG 3V22 VID1392 FERG 3V23 VID1393 MITSUBISHI HS4307 VID1394 MITSUBISHI HS4307 VID1395 PANASONIC NV2000 VID1397 PANASONIC NV2000 VID1397 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV3070	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.55 2.93 2.55 4.65 2.31 1.68 2.38
)	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.25	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1399 FERG 3V24 VID1391 FERG 3V22 VID1392 FERG 3V23 VID1393 MITSUBISHI HS4307 VID1394 MITSUBISHI HS4307 VID1395 PANASONIC NV2000 VID1397 PANASONIC NV2000 VID1397 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV3070	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.93 2.55 4.65 2.31
)	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.25 2.24 3.43 1.58 0.84	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1390 FERG 3V24 VID1391 FERG 3V22 VID1391 FERG 3V23 VID1392 FERG 3V23 VID1393 MTSUBISHI HS400 VID1394 MTSUBISHI HS400 VID1395 PANASONIC NV7000 VID1395 PANASONIC NV7000 VID1397 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV300 VID1400 PANASONIC NV370 VID1400 PANASONIC NV370 VID1400 PANASONIC NVG19 VID1408 PANASONIC NVG19 VID1408 PANASONIC NVG19	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.93 2.55 4.65 2.31 1.68 2.38 3.43 1.96
)	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.24 3.43 0.84 1.68	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1390 FERG 3V24 VID1391 FERG 3V22 VID1392 FERG 3V23 VID1393 FERG 3V23 VID1393 MTSUBISHI HS400 VID1394 PANASONIC NV7000 VID1395 PANASONIC NV7000 VID1395 PANASONIC NV7000 VID1395 PANASONIC NV7000 VID1395 PANASONIC NV7000 VID1396 PANASONIC NV700 VID1396 PANASONIC NV700 VID1400 PANASONIC NV301 VID1400 PANASONIC NV301 VID1408 SANYO VTCS000 VID1401 PANASONIC NV301 VID1408 SANYO VTCS000	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.93 2.55 2.31 1.68 2.38 3.43 1.96 2.78
)	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.24 3.43 1.58 0.84 1.68	VID1387 JVC HR0455 VID1388 FERG 3V49 VID1389 FERG 3V49 VID1399 FERG 3V24 VID1391 FERG 3V24 VID1391 FERG 3V22 VID1391 FERG 3V22 VID1393 FERG 3V23 VID1393 MTSUBISHI HS-400 VID1395 PANASONIC NV7000 VID1395 PANASONIC NV7000 VID1395 PANASONIC NV300 VID1399 PANASONIC NV300 VID1399 PANASONIC NV300 VID1400 PANASONIC NV300 VID1400 PANASONIC NV300 VID14101 PANASONIC NV370 VID1401 FANASONIC NV370 VID1401 SANVO VITCS000 VID1410 SANVO VITCS000 VID1410 SANVO VITCS000 VID1410 SANVO VITCS100	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.55 2.93 2.55 4.65 2.31 1.68 2.38 3.43 1.96 2.78 2.40
	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.25 2.24 3.43 1.58 0.84 1.68 0.84	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V49 VID1399 FERG 3V29 VID1399 FERG 3V24 VID1391 FERG 3V22 VID1391 FERG 3V23 VID1393 FERG 3V23 VID1393 MTISUBISHI HS400 VID1395 PANASONIC NV7000 VID1399 PANASONIC NV7000 VID1399 PANASONIC NV7000 VID1399 PANASONIC NV7019 VID1408 SANYO VICS000 VID14104 SANYO VIFR100 VID1411 SANYO VHRT100 VID1411 SANYO VHRT100 VID1411 SANYO VHRT100	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.55 4.65 2.31 1.68 3.43 1.96 2.78 2.40
	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.25 2.24 3.43 1.58 0.84 1.68 0.84 1.05	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V49 VID1399 FERG 3V29 VID1390 FERG 3V24 VID1391 FERG 3V22 VID1391 FERG 3V23 VID1393 PARSONIC NV7000 VID1394 PARSONIC NV7000 VID1395 PARASONIC NV7000 VID1410 PARASONIC NV7000 VID1410 FARASONIC NV700 VID1410 SANVO VH78100 VID1410 SANVO VH78100 VID1412 SANVO VH781100E VID1412 SANVO VH781100E VID1412 SANVO VH781100E	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.93 2.55 4.65 2.31 1.68 2.38 3.43 3.43 2.40 2.40 2.563
	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.25 2.24 3.158 0.84 1.68 0.84 1.68 0.84 1.04 0.49	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V49 VID1399 FERG 3V29 VID1399 FERG 3V24 VID1391 FERG 3V22 VID1391 FERG 3V23 VID1393 FERG 3V23 VID1393 MTSUBISHI HS400 VID1395 PANASONIC NV7000 VID1399 PANASONIC NV7000 VID1399 PANASONIC NV7000 VID1399 PANASONIC NV7019 VID1408 SANYO VICS000 VID1411 SANYO VHR1000 VID1414 SHARP VC6000 VID1414 SHARP VC6000 VID1414 SHARP VC6000	2.31 1.96 1.54 2.31 3.22 2.55 2.55 2.55 4.55 2.31 1.68 2.38 3.43 1.96 2.78 2.40 2.40 2.40 5.63 5.10
	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.25 2.24 3.43 1.58 0.84 1.68 0.84 1.68 0.84 1.05	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V29 VID1399 FARGASONIC MV7000 VID1396 PANACSONIC MV7000 VID1419 SANVO VITCS000 VID1419 SANRAP VCS000 VID1419 SANRAP VCS000 VID1419 SHARP VCS000 VID1419 SHARP VCS0000 VID1419 SHARP VCS0000	2.31 1.96 2.31 3.22 2.55 2.93 2.55 4.65 2.31 1.68 2.38 2.38 2.40 2.40 5.63 5.16
	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 2.24 3.43 1.58 0.84 1.68 0.84 1.05 0.49 0.75	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V49 VID1399 FERG 3V29 VID1399 FERG 3V24 VID1391 FERG 3V22 VID1391 FERG 3V23 VID1393 FERG 3V23 VID1393 MTSUBISHI HS400 VID1395 PANASONIC NV7000 VID1396 PANASONIC NV7000 VID1396 PANASONIC NV7000 VID1401 SANNO VICTO000 VID1416 SIARP VC5000 VID1416 SIARP VC5000 VID1416 SHARP VC5000	2.31 1.96 1.54 2.31 3.22 2.55 2.93 2.55 4.55 4.55 2.31 1.68 2.38 2.38 2.40 5.63 5.10 5.63
5	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 1.68 2.25 2.24 3.43 1.58 0.84 1.68 0.84 1.68 0.84 1.05	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V48 VID1389 FERG 3V29 VID1390 FERG 3V24 VID1391 FERG 3V24 VID1391 FERG 3V24 VID1391 FERG 3V23 VID1393 FERG 3V23 VID1393 FERG 3V23 VID1393 FARASONIC MV7000 VID1395 PARASONIC MV7000 VID1395 PARASONIC MV7000 VID1397 PARASONIC MV7000 VID1397 PARASONIC MV7000 VID1397 PARASONIC MV7000 VID1410 SANVO VITS000 VID1411 SANRVO VITS000 VID1415 SHARP VC5000 VID1417 SHARP VC5000	2.31 1.964 2.31 3.25 2.55 2.93 2.55 2.31 1.68 2.38 3.43 1.96 2.40 2.40 2.40 5.63 5.63 5.63
	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 2.25 2.24 3.43 1.68 1.68 0.84 1.68 0.84 1.68 0.75 1.12	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V49 VID1399 FERG 3V29 VID1399 FERG 3V24 VID1391 FERG 3V22 VID1391 FERG 3V23 VID1393 FERG 3V23 VID1393 MTSUBISHI HS400 VID1395 PANASONIC NV7000 VID1396 PANASONIC NV7019 VID1408 SANYO VICS000 VID1416 SHAPP VC7000 VID1416 SHAPP VC6000 VID1416 SHAPP VC6000 VID1416 SHAPP VC7000	2.31 1.964 2.31 3.22.55 2.55 2.55 2.55 4.65 2.31 3.43 3.43 3.43 5.63 5.63 5.63 5.63
	6.75 3.29 1.33 1.05 1.47 3.08 2.85 2.85 2.24 3.43 1.58 0.84 1.68 0.84 1.05 0.49 0.75	VID1387 JVC HR0455 VID1388 FERG 3V48 VID1389 FERG 3V48 VID1389 FERG 3V29 VID1390 FERG 3V24 VID1391 FERG 3V24 VID1391 FERG 3V24 VID1391 FERG 3V23 VID1393 FERG 3V23 VID1393 FERG 3V23 VID1393 FARASONIC MV7000 VID1395 PARASONIC MV7000 VID1395 PARASONIC MV7000 VID1397 PARASONIC MV7000 VID1397 PARASONIC MV7000 VID1397 PARASONIC MV7000 VID1410 SANVO VITS000 VID1411 SANRVO VITS000 VID1415 SHARP VC5000 VID1417 SHARP VC5000	2.31 1.964 2.31 3.25 2.55 2.93 2.55 2.31 1.68 2.38 3.43 1.96 2.40 2.40 2.40 5.63 5.63 5.63

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CL26 FIGURE OF 8 MAINS LEAD CBMISVS MEMORY BACK UP	0.35
CAPACITORS 0 1µF 5 5V	3.43
NCBSYS4 MEMORY BACK UP	3.43
BATTERIES PHILIPS 2 4V	3.22
NCB2A MEMORY BACK UP	
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CLL2 CO-AX LEAD MALE TO FEMALE	0.45
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1A TD 8A	0.15
QUICK BLOW FUSES	
20MM LENGTH × 5MM DIA	
	IN 10 S
50MA TO 200MA	0.28
250MA 10 800MA	0.10
1A TO 8A	0.10
MAINS FUSES	
1 INCH LENGTH × 1/4INCH DIA	
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5 AMP	0.13
7 AMP	0.13
13 AMP	0.13
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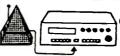
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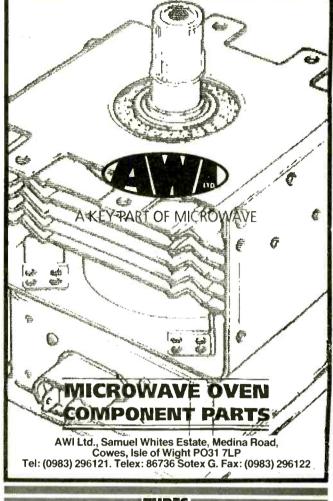
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Pash button PYE 731 caring aid unit aik Z7184 P/B/Unit MECH	£6.00 £3.00	Theat oftrasonic rec'r panel	£14,00 for £25,00	KBU02 KBP04	30p 30p	BU 508A BU 508AF	90p £1.00	ICC5 L.O.P.T.	
Button Unit GEC with Lamps	£7.00	20	for £5,00	WOO4	15p	BU 508D	909 00.12	DST 88B243 DST 85B243	£10,00 ça
7 Push Button Unit 216B panel	£5.00	GEC 8 touch unti assy complete v 1 C/s + pots	£4,00	NOOS NOOV Bridges 21/2 Amp	20p 30p	BU 508V BU 705	00.12	120111111211	
S13AP panel	£5,00	G11 E.W. Transformer G11 E.W. coils	50p £1.00	G11 Drawer ASS 3 pots Mans Swi	ich	BU MIKA BU MI7	00.13 00.13	ICC5 Remote I.C.	
TTI4 GECTEX-DECODE	R	G11 Transient Suppressors 245V	20p	and Lead	€2.00	BU 824 BUT II	50p 50p	CCUFRG07 CCUFRG09	£3.
3 IC Panel with cable form	€9,50	G11 Sean Coils G11 100K tuner pots 12	£5,00 for £1,00		_	BUT 13 600 V-28A BUW H	£1.00 50p		
PHILIPS		KT3 IF panel KT3 line OSe transformer	00.63	K30 Drawer Ass with pots cable for	£1.00	BUW 84 BYW 20-08-9	60p £1.00	Ferguson LATR Hand Set	
Decoder SAA IC 5034503 5040B-5050		KE3/K30 infra-red receiver	61.00	TX10 Drawer with 8 way pots, ass	€2.50	BYW 95 BUX 39 25A-150V	10p £1.00	ICCS Mod	EN.
40 Text Panel	£8,00	head K30Drawer unit with IC's (home) E10.00			BUX 84	50p 50p	KTMK30 T Text	€12.
FERGUSON		K30 drawer unit with IC c(expor K13 AE Sockets	1) £10,00 50p	Hills 9 piece tool kit in case	£5,00°	BUX 85 BUY 49	20p 30p	K [3/K30 Full remote]	£15.
X85 CHASSIS X86 CHASSIS	£20.00 £20.00	KT3 receiver panel KT3 line driver transformer	68,00 50p	Philips Coaxial Cable Stripper SB0	C325 £7.50	TIC 106a TIC 116m	, \0 p	GEC intra-red 2236-2026	£4. £4.
X96 CHASSIS	€20.00	Ove, K30, GEC, etc. Pre-mains:	stand-by		_	TIC 116n/Y 1003 TIC 126N	,30p ,30p	GEC's button full remote GEC push pad handset buttout b	£14. blobs I
DIODES		Switch Decca 80/100/1F panel	61.00 65.00	Self adjusting outter stripper	£5,00	TIC 2258 TIC 226E	,10p ,10p		es.
ridge KBF-08 Y 126	40p 10p	NPN PNP 80V 6 Amp TO66 O.F Trans.	pair 25p	10 mixed tube bars	£4.00)	TIC 226m TIC 236m	30p 30p	Pye & Philips handset KT3-K30 No RC5150-RC5176-RC5071-B	RC5177.
Y 127 Y 133	10p 10p	5 botton touch tuner BBC1 2 FTV	71/2	5000 Diodes-Resistors	£3.00 pack	TAG 226/600 TICV 106D	30p	Special Price RC4001 KT3 and Teletex	£13
Y 134 Y 176	10p 25p	video with it SAS 56017/5701 Control panel 5 sliders + mains le		*D P push mains switch	20p each	(T092 case 2/\dolov) T1P 29	10p 25p	IT CVC 32 handset repaired	£15
Y 179 Y 184	40p 25p	G118 touch button unit replaces P.B.U.				TIP 30	25p	CVC 32 Hand Set CVC 45 3 and 2 Pin	
Y 187 Y 190	10p 40p	Tube base + base unit for 820 Et		Mains lead & two pin socket for ra cassette	dio 35p	TIP 30A TIP 30B	25p 25p	TX10 Hand Set Text TX9 with Text	€12 €12
Y 196 Y 198	30p 10p	chassis CEC Une O P Trans, & Rec Stic	k for		75p	TIP30C TIP31	25p 25p	TX9 & TX10 button print	Ç E
Y 204/4 Y 206 - BY 407 Eqv.	Np Np	Portable CVC 20/25/30/35/40 decoder pan	£3,00 00,013 lo	T/V toop aerial	_	T1P 32 T1P 33B	25p 50p	TXH1 Focus Pots	
Y 208 800 Y 210 400 Y 210 800	5p	CVC 20/25/30/35/40 decoder pan (untested)		Radio Telescopic Aerial	00.13	TIP 33C TIP 34A	70p 50p	ITT	
Y 210/800 Y 223 Y 224/600: 4.8/A 600/v bridge	10p 60p 50p	CVC 40/45 IF panel	£5,00	Philips Silicon Grease	£1.50 each	TIP 34B TIP 34C	60p 70p	T/V & Video Processor, 1200 T	ype £10.00
Y 224/000: 4.8/A 600// Orlage Y 226 Y 227	15p 15p 20p	40K Transducer PHILIPS NE511N	50p £1.20	Freeze Philips	£1.50 each	TIP 35B TIP 35C	50p 70p		
Y 227 Y 228 1500v at BY229 black	150	LM337M Reg. 20 GEC Black Spark Gops	30p £1.00		£1.50 each	TIP 35D TIP 36	80p 50p	PHILIPS UNIVERSAL HAND SET S	£12,00 RC5
91 15 ¥ 229 (0)000 Y 229 Red Y 229/400	20p -30p	K E3 Front Panel Control	£2.50	Foam Cleaner Philips		TIP 36C	70p	KT3K45	
Y 229/60p Tag Y 229/800	30p 30p	Assy. BTW 3050	50p	Contact Cleaner Philips	£1.50 each	TIP 41B	15p 40p	W b 0 5 10 11	e Hender
Y 237 Y 254	5p 10p			100 Coax Plugs	EACH Hip	TIP4ID TIP 42	70p 10p	We have all parts for Philip	es transcesses
Y 255 Y 298	£30p	PENCHEON		De-solder pump + 2 nozzles Philip	× ×	TIP 42/BRC 6109	10p 40p	RC5353	£15
Y 299 Y 406	10p No	FERGUSON TX85 CHASSIS	€20	Se some pump / 2 norries (time	€4.00	TIP 49 TIP 57	.30p	RC5300	€12 €15
Y 527 Y 407a	20p 10p	TX86 CHASSIS TX99 CHASSIS	£20	Flat Red LED and Green	5p	TIP 100 TIP 102	30p 30p 30p	Philips RC5	C1.
Y 448 Y 500/200 5 amp	10p 8p			-	€6.00	TIP 110 TIP 115	20p 50p 50p	ТЕХТ-ГҮРЕ	
Y 527 Y 602	1 f les	BR-2/3 Volts	20p	500gm 60/40 Solder reel		TIP 117	35p	Replace Hand Set	for
YV 26C 247	10p			Dual v u meter -20 — + 10db	£1.00	TIP 126 TIP 127	40p 40p 30p	Philips KT3-K30, K4 etc	£1
P20G GRP80G (TX10)	10p 10p 10p 5p 30p	TUNER, SAT 2000 KHC	EH	K30 Thermistor 232266298009	75p	TIP 130 TIP 131	30p 6p	THORN HAND SE	OTN.
.K 3102 (∀√200)	50p 20p			De-solder Pump	€2,50	TIP 136 TIP 140	6р 30р 50р	9000 - 9600 - TX9 ~ TXH	0-TX100
Bridge TX10 800/3 amps BPC35402 Bridge	.Mp £1.50	MIXED FUSES				TIP 142 TIP 640	80p 50p	Text and Non-Text	EH
Bridge Rec. D35B10 BY 171/800	40p 12p	Black Print Type		Portasol Flameless Gas Soldering	££16.00	TIP 2955 TIP 1.761 A-1000V 4Amp	35p 75p	PHILLIPS	
and the same		100 off €2				T6032 T6036	80p 50p 38p 75p 30p 40p 40p 40p 40p	RC5171	€1.
	_	7700 (3/24 4):3/	7.6 8	100 Mixed 20mm Fuses	€2.50	TM040 TM047	40p	-	-
International Rectifier EHT	Diodes G	BTW 92/800R	3 for 8p			TMM9	40	K35-K4 HAND SI	

TX90-TX100 Tuner with AE socket £5.00 Thom TX Tuner V/Cap eqv. to ELC1043 AMSTRAD Tuner Thom TX10 Export V/Cap UHF. V/HF SNA062F UHF/V/HF Small £4.00 NEW G8 Tuner V/Cap £2.50 GE £2.100 V/Cap £5.00 ELC2000 on Panel £2.50 GE £2.100 V/Cap £5.00 NEW £4.00 SEC Tuner V/Cap Hitachi After 1979 £T548. ET547. ET541B £8.00 ET546	SENDZ COMPONENT 63 Bishopsteignton. Shoeburyness, ESSEX SS3 BAF. SAME DAY SERVICE All items subject to availability. Technical Inform telephone only. No accounts: No Credit Card Postal Order/Cheque with order Please add £1.70 post/packing (unless otherwise and then 17½% VAT to total. Export orders chargec Callers: To shop at 212 London Rd. Southend. 332992. Fax 0702 338805 Open 9-12/2.30-6. GVMT school orders accepted of headings.	MABS420PCUS MABS440P MARS400X M708LB1 MMSW7 MMSW1 MMSW1 MMSW1 Jat cost. Tel. 0702- M 120 BIC M49BB1 MSSW1-SARS MSSW1-SARS MSSW1-SARS MSSW1-SARS MSSW1-SARS MSSW1-SARS MSSW1-SARS MSSW1-SARS	E1.09 E2.00 FBA.580 E3.00 FBA.580 E2.00 FBA.580 FBA.580 E2.00 FBA.580 FBA.580 FBA.580 FBA.580 FBA.580 FBA.680 FBA.680 FBA.680 FBA.680 FBA.680 FBA.880	E1.00 C1.00 C2.00 C2.00 C2.00 C2.00 C1.00
Woultor Astec UM1233 Sop	U944	20p SAA(61) 30p SAA(073 30p SAA(073 30p SAA(073 30p SAA(073 30p SAA(074 30p SAA(075 7p SAA(174 10p SAA(174 10p SAA(176 20p SAA(176 20p SAA(176 20p SAA(176 20p SAA(176 20p SAA(177 20p SAA	C1.000 C2.001 TMS1UBINDL TMS2UBINDL TMS2UBINDL TMS1UBINDL TM	12.00 TDA3088
BF694 10p 2SC3795 BF758 30p 2SC3793B BF760 30p 2SC7350 BFT14 15p 2SD180 TO BFT14 15p 2SD180 TO BFT14 8p 2SD200 BFN30 30p 2SD200 BFN30 30p 2SD200 BFN30 30p 2SD200 BFN30 30p 2SD1787 BFN30 45p 2SD787 BFN30 45p 2SD787 BFN30 45p 2SD787 BFN30 45p 2SD787 BFN30 45p 2SD780 BFN41 55p 2SD1820 BFN41 55p 2SD1820 BFN41 55p 2SD1820 BRN43 55p 2SD1820 BRN41 55p 2SD1266 BRN43 15p 2SD1266 BRN43 15p 2SD1266 BRN43 15p 2SD1457 BRN56 30p 2SD1457 BRN56 30p 2SD1457 BRN56 30p 2SD1576 BSN79 10p 2SD1576 BSN95 10p 2SD1576	CA3123 CA3124 CA3123 CA3124 CA3123 CA3124 C	40p SAASUSU 1.00 SAASUSU 40p SAASUSU 40p SAASUSU 50p SAASUSU 50p SAASUSU 50p SAASUSU 50p SDA25442 40p SAA5240 40p SASSU 40p SASSU 50p	14.5.0 SN765-15N 14.2.00 SN765-16 14.2.00 SN765-16 14.2.00 SN765-10 14.2.00 SN765-10 14.2.00 SN765-10 15.00 SN765-10 15.00 SN765-10 15.00 SN766-10 15.00 SN766-10 15.00 SN766-10 15.00 SN766-10 15.00 SN766-10 15.00 SN767-10 15.00 SN7	E1.00 EX.00 TEA.2017 TEA.2017 TEA.3104 E1.00 TDA.33001 E6.00 SIL/516 Sup. Sup. Sup. Sup. Sup. Sup. Sup. Sup
BSX20 17p BC108 FT3055 Mop BC119 TCE82 Mop BC119 TCE82 Mop BC119 TCE520 Mop BC114 2N930 5p BC114 2N9221 8p BC114 2N2221 8p BC115 2N2222 8p BC116 2N2906 Mop BC129 2N3701 Mop BC129 2N3701 Mop BC129 2N3701 Mop BC129 2N3701 Mop BC130 2N3702 Mop BC148 2N3904 15p BC147 2N4442 S1.00 BC148 2N4444 S1.00 BC148 2N4444 S1.00 BC149 2N5278 20p BC157 2N5296 40p BC153 2N6109 40p BC158 2N6109 40p BC158 2N6109 40p BC158 2N6109 40p BC158 2N6109 40p BC171 2N6399 2N6109 BC160 2N6399 10p BC171 2SA3441 10p BC174 2SC313 10p BC213 2SC381 10p BC213 2SC371 2SC371 2SC371 BC237 2SC371 BC237 2SC371 BC237 2SC373 10p BC250 BC250	Hop BCC36	£2.00	EX.000 T.C. 2000 EX.000 EX.000 T.C. 2000 T.C. 2000	CL.00 A.C.103 A.C.104 A.C.105 S.D B.L.000 A.C.103 A.C.103 S.D B.L.000 B.L.000 B.L.000 A.C.103 S.D B.L.000 B.L.000 B.L.000 B.L.000 A.C.103 S.D B.L.000 B.L.000
2SC1030 £1.00 BC294 2SC1061 30p BC298 2SC1162 C/18 30p BC300 2SC1514 30p BC301 2SC1520 25p BC307 2SC1546 20p BC307 2SC1546 1100 BC308	10p BD-54D 40p 718881 8D-54D 40p 718891 8D-55d 50p 71893 8D-578 30p 8D-681 8D-681 30p 8CA Line Thyristor 7p BD-682 40p COg-901 8D-682 40p 8D	£2.00 £2.00 £2.00 £2.00 £2.00 50 \$0 \$0 \$0 \$11.659.000	TDA2540 FDA2541 TDA2542 TDA2545 TDA2545 TDA2556 TDA2556 1DA2560	Thorn Transformers 1.00
2SC1725 20p BC327 2SC1744 20p BC327 2SC1756 5up BC327 2SC1942 £1.00 BC327 2SC2107 £1.00 BC337 2SC2107 £1.00 BC337 2SC21073 8p BC347 2SC2173 8p BC347 2SC2229 15p BC349 2SC2229 15p BC350 BC365	10p BD508 30p Thermistor	75p 75p 70p 15p 15p 15p 6MEG CDA 15p 6MBIz SFE	15p MA721PC M5043N8505P TD635P TD635P PCD8572 HD744 IC86P	LC s £1.00 UPD114LC-2 £1.00 £1.00 MN1259H3C £1.00 £1.00 MS041159H5P £1.00 £1.00 M491BBI £2.00 £1.00 H491BB £1.00 £1.00 H451BBI £2.00