

Item	Clip Ref	Clip Description	Clip Mfg Part No	Clip Mfg	Actual Marking	Spec	Selected Part	Selected Mfg	Supplier	Comments	Notes
Fan	B1	FAN-TBAX 12.4-CFH 12VDC	3160-0492	HP	PABST TYP 812L	12.4CFM, 12V nominal actually runs at 15V	Papst 612NLE	PABST	RS		
Fan Connector		CONNECTOR-HOUSING POST-TYPE	50-57-9402	Molex			(as specified)	MOLEX	Farnell		
Fan Connector		CONTACT-CONNECTOR U/W-POST-TYPE FEMALE CRIMP	16-02-0088	Molex			(as specified)	MOLEX	Farnell		
Mains Inlet & Filter	FRM1 (not on CLIP)	FILTER-LINE CEE-22-TERMS Torx bolts for mains filter	9135-0167	HP	SCHAFFNER FN 323-3-05	3A M3 x 12mm torx bolt, plus nut, locking washer etc	FN9233-3-06	SCHAFFNER	Farnell eBay	Replace rivets on mains filter with torx bolts (+ M3 nuts, locking washers etc)	(*4)
2200uF/35V	A4C7/8	CAPACITOR-FXD 2200UF 35V AL-ELECT	0180-4033	HP	as spec, 85C	18d, 36h, axial, black, 7.5mm pins	UPM1V222MHD	Nichicon	Mouser	16d, 36l, 7.5mm pins	
15Kuf/16V	A4C9-15	CAPACITOR-FXD 15KUF 16V AL-ELECT	0180-4034	HP	as spec, 85C, Nippon Chemicon	36d, 26h, radial, black, 10mm pins	UKW1C153MRD	Nichicon	Mouser	20d, 40l, 10mm pins (max 48mm height)	(*7)
22uF/50V	A4C17	CAPACITOR-FXD 22UF+50-10% 50VDC AL	513D226F0638B3D	SPRAGUE	as spec, 85C	8d, 12h, orange, 3.5mm pins	PLX1H220MCL1TD	Nichicon	Mouser		
680uF/50V	A6C1/11	CAPACITOR-FXO 680UF 50 V AL ELCLTL	0180-4032	HP	as spec, 105C	16d, 23h, brown, 7.5mm pins	UPW1J681MH03TN	Nichicon	Mouser	18d, 20h, 7.5mm pins, these leaked in TIN's machine, (max ~23mm height)	(*7)
8300uF/35V	A6C8	CAPACITOR-FXD 8300UF+75-10% 35VOC AL	53D832G035JP7	SPRAGUE	as spec, 85C, Sprague	67l,26d, 34mOhm ESR, 4110mA ripple, 4.3mA leakage	53D832G035JP6	Vishay Sprague	Farnell US	Difficult to find	
47uF/63V	A6C200/1	CAPACITOR-FXD 47UF+20% 63VOC AL	0180-3828	HP	as spec, 85C	8d, 15h, 3.5mm pins	UPM1J470MPD	Nichicon	Mouser		
330uF/25V	A6C202	CAPACITOR-FXD 330UF+20% 25VOC AL	0180-3830	HP	as spec, 85C	10d,15h, 5mm pins	UPM1E331MPD6TD	Nichicon	Mouser		
220uF/16V	A6C203	CAPACITOR-FXD 220UF+20% 16VDC AL	0180-3829	HP	as spec, 85C	8d,14h, 3.5mm pins	UPM1C221MPD	Nichicon	Mouser		
DS1220Y	ASU132 (not on CLIP)	IC STATIC RANDOM-ACCESS MEMORY (DS1220Y-150) 24 pin DIP socket	1818-4335	HP	DS1220Y-150	2K x 8 SRAM 24 pin DIP socket	DS1220AD-150+ 2-1571552-8	Maxim Dallas TE Connectivity / AMP	Mouser	'AD' part instead of 'Y' part even though slightly different timings	(*2)(*5)
DS1230Y	ASU121/2 (not on CLIP)	IC DS1235V-150 256K NONVOLATILE RAM 28 pin DIP socket	1818-4336	HP	DS1230Y-150+ (not original)	32K x 8 SRAM 28 pin DIP socket	DS1230Y-150+ 828-AG11D-ESL-LF	Maxim Dallas TE Connectivity / AMP	Mouser	DS parts were soldered in on early CLIP	(*1)(*3)(*6)
EPROM	ASU110-15	EPROM-PRGM27C512 REV4	03458-8884x	HP		TMS27C512 series 65536 by 8-bit UV EPROMs	TMS27C512-2JL	TI	eBay	Socketed even on early CLIP, difficult to find	

Notes:

(\*1) - December '89 CLIP listed data SRAM as DS1235Y-150, but my machine had replacement DS1230Y parts soldered in

(\*2) - DS1220Y SRAM can be replaced by DS1220AD and ST part # M48Z12 (according to Maxim)

(\*3) - DS1230Y SRAM can be replaced by ST part # M48Z35Y or TI part # BQ4011YMA (according to Maxim)

(\*4) - Keysight actually shows a FN9222-3-06 replacement part, 373uA leakage, 0.1uF, 2.5mH

(\*5) - Keysight actually shows a DS1220Y-120+

(\*6) - Keysight actually shows DS1230Y both 120+ and 150+

(\*7) - Height of replacements limited by the case dimensions