

POWER SUP., 115/208/230 VAC

MODEL AX413

REV E

TITLE

USED ON

MODEL	SECTION
TTR-10	TPSA-1
TTR-10	TPSE-1
TTR-10	TPSF-1

LIST SECTIONS

1. SUPPORTING NOTES
2. SUPPORTING LISTS
3. ELECTRICAL/MECHANICAL
4. SUPP ASSY/REF DWGS
5. SPECIFICATIONS
6. LOOSE ITEMS
7. PARTS PECULIAR

SHEET NO.

SEE BELOW
NONE REQ
1-13
14
15
16
NONE REQ

LAST SYMBOLS

C918	L904	W903
CP900	P904	XC914
CR918	Q902	XF906
F906	R922	XQ902
J903	S900	
K901	T901	

COMPILED L. GABEL
CHECKED L. GABEL
APPROVED R. KOHN
FNL APPR
ISS DATE

MISSING SYMBOLS

C906	XC900 THRU 903
CR900	XC905 THRU 913

NOTE 1. THE FOLLOWING
SYMBOL, #, IN THE REMARKS
COLUMN INDICATES THAT THE
PART NUMBER IMMEDIATELY
FOLLOWING IT IS THE TMC
PROPRIETARY MANUFACTURING
DRAWING FOR THE CORRES-
PONDING NUMBER IN THE PART
NUMBER COLUMN.

MATERIAL LIST		REV.	BCDE										MODEL	AX413		
													SHEET	1	OF	16
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
				USED ON	USED TO MOUNT	QUAN.										
1	A3153-1	ETCHING, PC BD.		A3153-2		1										
1	A3153-2	MACHINING, PC BD.		A3153-3		1										
1	A3153-3	LETTERING, PC BD.		A3153-4		1										
1	A3153-4	SUB-ASSY, PC BD.		A3153-6		1										
	BS100	SOLDER, SOFT		A2717 A2718 A3153-6 CA480-3-14 CA480-3-5 CA480-96-5 CA789 A3647												
2	CC100-23	CAP., FXD, CER		A2717 A2717		1 1	C900A, 900B C901A, 901B									
	CD101-1MW	CORD, LACING	BLK	CA789												
1	CE51C101H	CAP., FXD, ELECT.		A2718		1	C914									
1	CE51F800R	CAP., FXD, ELECT.		A2718		1	C904									
2	CE103-5	CAP., FXD, ELECT.		A2718 A2718		1 1	C902 C903									
3	CE105-20-100	CAP., FXD, ELECT.		A3153-6 A3153-6 A3153-6		1 1 1	C915 C916 C917									

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	B	C	D	E											MODEL AX413
																	SHEET 2 OF 16
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
1	CE105-25-50	CAP., FXD, ELECT.		A3153-6		1	C918										
4	CE105-100-25	CAP., FXD, ELECT.		A3153-6		1	C908										
				A3153-6		1	C909										
				A3153-6		1	C912										
				A3153-6		1	C913										
3	CE116-5CN	CAP., FXD, ELECT.		A2718		1	C907										
				A2718		1	C910										
				A2718		1	C911										
3	CL101-2	COIL, RF, 1MH		A3153-6		1	L902										
				A3153-6		1	L903										
				A3153-6		1	L904										
2	CP07SD4	BRKT, CAP, MTG		A2718		2											
1	CP115-1	CAP., FXD, PAPER		A2718		1	C905										
4	CU102-1	CLAMP, LOOP		A2717		2											
				A2718		1											
				AX413		1											
1	CU102-6	CLAMP, LOOP		CA789		1											
1	CU118-4S	RET., EL TUBE		A2718		1											
4	CU139-2B	FERRULE, HANDLE		A2717		4											
1	DD108-1	RECT, SCOND DEV	HV RECT.	A2718		1	CR909										
1	EY102-15	GROMMET		A2718		1											

MATERIAL LIST		REV.	B C D E										MODEL	AX413		
													SHEET	3	OF	16
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
				USED ON	USED TO MOUNT	QUAN.										
7	FH103	FUSEHOLDER		A2717		1	XF900									
				A2717		1	XF901									
				A2717		1	XF902									
				A2717		1	XF903									
				A2717		1	XF904									
				A2717		1	XF905									
				A2717		1	XF906									
2	FU102-.1	FUSE,CTG		A2717		1	F902									
				A2717		1	F903									
1	FU102-.2	FUSE,CTG		A2717		1	F906									
1	FU103-.350	FUSE,CTG		A2717		1	F903									
2	FU102-.750	FUSE,CTG		A2717		1	F904									
				A2717		1	F905									
1	FU102-.125 OR	FUSE,CTG	2 OVENS	A2717		1	F901									
1	FU102-.250 OR	FUSE,CTG	4 OVENS	A2717		1	F901									
1	FU102-.375 OR	FUSE,CTG	6 OVENS	A2717		1	F901									
1	FU102-.5	FUSE,CTG	8 OVENS	A2717		1	F901									
1	FU103-3 OR	FUSE,CTG	208-230VAC	A2717		1	F900									
1	FU103-5	FUSE,CTG	115 VAC	A2717		1	F900									
6	FW02HBN	WASH.,FLAT		A2721		6										
15	FW06HBN	WASH.,FLAT		A2717		1										
				A2718		8										
				A2719		6										

MATERIAL LIST		REV.	B C D E										MODEL AX413
													SHEET 4 OF 16
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS						
				USED ON	USED TO MOUNT	QUAN.							
3	FWO8HBN	WASH., FLAT		A2717		2							
				AX413		1							
3	FW10HBN	WASH., FLAT		A2718		3							
1	FW101-1	WASH., FLAT, NYLON		A2718		1							
2	HA102-11BN	HANDLE		A2717		2							
2	JJ175	CONN, RECP, AC	EXT OVEN	A2717		1	J900						
			AC IN	A2717		1	J901						
1	JJ295-1	CONN, RECP		CA789		1	J903						
34	LA101	MARKER, CABLE	NOS. 1	CA789		2							
			NOS. 2	CA789		2							
			NOS. 3	CA789		2							
			NOS. 4	CA789		2							
			NOS. 5	CA789		2							
			NOS. 6	CA789		2							
			NOS. 7	CA789		2							
			NOS. 8	CA789		2							
			NOS. 9	CA789		2							
			NOS. 10	CA789		2							
			NOS. A	CA789		4							
			NOS. B	CA789		4							
			NOS. C	CA789		6							
1	LD1320/MS3354	PLATE, SHIELD		A2718		1							
1	LD1321/MS3357	PLATE, REAR		A2717		1							
1	LD1329/MS3356	PLATE, MOUNTING		A2721		1							
1	LD1330/MS3353	CHASSIS, MAIN		A2718		1							

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	B C D E										MODEL	AX413		
													SHEET	5	OF	16
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
				USED ON	USED TO MOUNT	QUAN.										
6	LWEO2MRN	WASH., LK, EXT.		A2721		6										
11	LWEO4MRN	WASH., LK, EXT.		A2717 A2718		4 7										
37	LWEO6MRN	WASH., LK, EXT.		A2717 A2718 A2719 AX413		3 25 7 2										
23	LWEO8MRN	WASH., LK, EXT.		A2717 A2718 AX413		2 10 11										
8	LWE10MRN	WASH., LK, EXT.		A2718		8										
4	LWE25MRN	WASH., LK, EXT.		A2718		4										
1	MS1795	BRKT, PLATE MTG		A2719		1										
1	MS3353	CHASSIS, MAIN		LD1330		1										
1	MS3354	PLATE, SHIELD		LD1320		1										
1	MS3355-1	PLATE, SIDE, RT		A2718		1										
1	MS3355-2	PLATE, SIDE, LT		A2718		1										
1	MS3356	PLATE, MTG		LD1329		1										
1	MS3357	PLATE, REAR		LD1321		1										
20	MWC16/19/U1	WIRE, ELECT	BRN	CA789		20										
35	MWC16/19/U8	WIRE, ELECT	GY	CA789		35										
21	MWC16/19/U91	WIRE, ELECT	WH/BRN	CA789		21										
28	MWC16/19/U98	WIRE, ELECT	WH/GY	CA789		28										
232	MWC22/7/U0	WIRE, ELECT	BLK	CA789		232										
141	MWC22/7/U2	WIRE, ELECT	RED	CA789		141										

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST

REV.

B	C	D	E																	
---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MODEL AX413

SHEET 6 OF 16

QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
81	MWC22/7/U3	WIRE,ELECT	ORN	CA789		81	
93	MWC22/7/U4	WIRE,ELECT	YEL	CA789		93	
89	MWC22/7/U5	WIRE,ELECT	GRN	CA789		89	
47	MWC22/7/U6	WIRE,ELECT	BLU	CA789		47	
128	MWC22/7/U7	WIRE,ELECT	VIO	CA789		128	
67	MWC22/7/U8	WIRE,ELECT	GY	CA789		67	
49	MWC22/7/U9	WIRE,ELECT	WH	CA789		49	
75	MWC22/7/U90	WIRE,ELECT	WH/BLK	CA789		75	
24	MWC22/7/U91	WIRE,ELECT	WH/BRN	CA789		24	
80	MWC22/7/U92	WIRE,ELECT	WH/RED	CA789		80	
118	MWC22/7/U93	WIRE,ELECT	WH/ORN	CA789		118	
19	MWC22/7/U94	WIRE,ELECT	WH/YEL	CA789		19	
85	MWC22/7/U95	WIRE,ELECT	WH/GRN	CA789		85	
30	MWC22/7/U96	WIRE,ELECT	WH/BLU	CA789		30	
102	MWC22/7/U97	WIRE,ELECT	WH/VIO	CA789		102	
57	MWC22/7/U98	WIRE,ELECT	WH/GY	CA789		57	
1	NP576	PLATE,ID		A2717		1	

MATERIAL LIST		REV.	B	C	D	E											MODEL	AX415	
																SHEET	7	OF	16
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS												
				USED ON	USED TO MOUNT	QUAN.													
2	NT129-440-4	NUT,SPLINE,RD						MS3357			2								
2	NT129-632-4	NUT,SPLINE,RD						MS1795			1								
								MS3354			1								
19	NT129-832-4	NUT,SPLINE,RD						MS3353			15								
								MS3355-1			2								
								MS3355-2			2								
1	NT137-0440	NUT,PLN,HEX,N						A2718			1								
6	NTH0256BN6	NUT,PLN,HEX						A2721			6								
2	NTH0440BN8	NUT,PLN,HEX						A2718			2								
23.	NTH0632BN8	NUT,PLN,HEX						A2717			3								
								A2718			17								
								A2719			1								
								AX413			2								
6	NTH0832BN10	NUT,PLN,HEX						A2717			2								
								A2718			4								
8	NTH1032BN12	NUT,PLN,HEX						A2718			8								
4	NTH2520BN14	NUT,PLN,HEX						A2718			4								
1	PC116-1	ETCHING,PC BD						PC116-2			1								
1	PC116-2	MACH,PC BD						PC116-3			1								
5	PL169	CONN,PLUG,RF,BNC						CA480-96-5			1	P901							
								CA480-3-14			1	P902							
								CA480-3-14			1	P903							
								CA480-3-5			1	P900							
								CA480-3-5			1	P904							

MATERIAL LIST		REV.	B C D E										MODEL	AX413		
													SHEET	8	OF	16
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
				USED ON	USED TO MOUNT	QUAN.										
	PX100-1-053	INS SLVG, SIZE 16	BLK	CA789												
2	PX104-1-022	INS SLVG, SIZE 24	BLK	A2717		2										
4	PX104-7-022	INS SLVG, SIZE 24	GY	A2717		4										
4	PX104-7-034	INS SLVG, SIZE 20	GY	A2718		4										
1	PX104-8-034	INS SLVG, SIZE 20	ORN	A2718		1										
6	PX104-9-034	INS SLVG, SIZE 20	VIO	A2718		6										
2	RC20GF153J	RES., FXD, COMP		A3647		1	R903									
				A3647		1	R904									
1	RC20GF823K	RES., FXD, COMP		A3647		1	R913									
4	RC32GF101K	RES., FXD, COMP		A3153-6		1	R911									
				A3153-6		1	R912									
				A3153-6		1	R916									
				A3153-6		1	R917									
3	RC32GF102K	RES., FXD, COMP		A3153-6		1	R919									
				A3153-6		1	R920									
				A3153-6		1	R921									
24	RG174/U	CABLE, RF		CA480-3-14		14										
				CA480-96-5		5										
				CA480-3-5		5										
1	RL144-2	RELAY, ARMATURE		A2718		1	K900									
1	RL157-1	RELAY, ARM., COAX		A2717		1	K901									
1	RP100XH351K	RES, VAR, WW	PA OVLD	A2717		1	R907									

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	BCDE										MODEL	AX415	
													SHEET	9	OF 16
QUAN. PER UNIT	PART NO.	DESCRIPTION	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS								
				USED ON	USED TO MOUNT	QUAN.									
ELECTRICAL/MECHANICAL															
1	RW107-13	RESISTOR, FXD, WW		A2718		1	R922								
2	RW107-41	RESISTOR, FXD, WW		A2717		1	R901								
				A2718		1	R900								
1	RW109-24	RESISTOR, FXD, WW		A2718		1	R902								
1	RW109-28	RESISTOR, FXD, WW		A2718		1	R908								
1	RW111-24	RESISTOR, FXD, WW		A2718		1	R905								
1	RW111-40	RESISTOR, FXD, WW		A2718		1	R906								
5	RW123-100J	RESISTOR, FXD, WW		A3153-6		1	R909								
				A3153-6		1	R910								
				A3153-6		1	R914								
				A3153-6		1	R915								
				A3153-6		1	R918								
6	SC131-0632BN5	SCR, MACH., UNDCUT		A2718		6									
2	SC131-0632BN22	SCR, MACH., UNDCUT		A2718		2									
2	SC131-0632BN36	SCR, MACH., UNDCUT		A2718		2									
2	SC131-0832BN6	SCR, MACH., UNDCUT		A2717		2									
4	SC131-1032BN10	SCR, MACH., INDCUT		A2717		4									
1	SC143-0440B12	SCR, MACH., NYLON		A2718		1									
6	SCBPO256BN8	SCR, MACH.		A2721		6									
6	SCBPO440BN3	SCR, MACH.		A2717		6									

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	B C D E										MODEL	AX413		
													SHEET	10	OF	16
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
				USED ON	USED TO MOUNT	QUAN.										
10	SCBPO632BN4	SCR, MACH		A2718		3										
				A2719		7										
2	SCBPO632BN5	SCR, MACH		A2717		2										
17	SCBPO632BN6	SCR, MACH		A2718		9										
				A2721		6										
				AX413		2										
1	SCBPO632BN24	SCR, MACH		A2717		1										
2	SCBPO632BN38	SCR, MACH		A2718		2										
16	SCBPO832BN5	SCR, MACH		A2718		6										
				AX413		10										
1	SCBPO832BN8	SCR, MACH		AX413		1										
5	SCFPO440BN3	SCR, MACH		A2718		5										
2	SCFPO440BN12	SCR, MACH		A2718		2										
1	ST50P	SW, TGL, OVEN V		A2717		1	S900									
5	TE102-2	TERM., STUD, INS		A2718		5										
1	TE104-2	TERM., LUG		A2718		1										
6	TE108-3	SPACER, RIV TYPE		MS3356		6										
2	TE108-21	SPACER, RIV TYPE		MS3356		2										
12	TE110-3	TERM., LUG		A2717		10										
				A2718		2										

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	MODEL AX413										SHEET 11 OF 16	
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS							
				USED ON	USED TO MOUNT	QUAN.								
2	TE110-5	TERM., LUG		A2718		2								
1	TE111-2	TERM., LUG		A2717		1								
2	TE117-41	SPACER, SLEEVE		A2718		2								
28	TE127-3	TERM., STUD		A3153-4		18								
				PC116-3		10								
1	TE135-25	NUT, PLN, RD		A2718		1								
2	TE156-32947	TERM., LUG		CA789		2								
2	TE159-34158	TERM., LUG		CA789		2								
2	TE0632AE38H	NUT, SLEEVE		A2718		2								
1	TF264	XMFR, PWR, SD		A2718		1	T901							
1	TF265	XMFR, PWR, SD/SU		A2718		1	T900							
1	TF5017	REACTOR		A2718		1	L900							
1	TF5018	REACTOR, SWINGING		A2718		1	L901							
2	TS165P01	SOC, EL TUBE, OCT		A2718		1	XC904							
				A2718		1	XC914							
3	TS166-1	SOC, SCOND DEV		A2721		1	XQ900							
				A2721		1	XQ901							
				A2721		1	XQ902							
1	UG625*/U	CONN, RECP, RF, BNC		A2717		1	J902							
1	UG306*/U	ADPT, CONN, BNC		A2717		1	CP900							

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST

REV.

B C D E

MODEL AX413

SHEET 12 OF 16

QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
10	WA102-4	WASH., SHLD, FIBRE		A2717 A2718		2 8	
4	WA106-1	WASH., FLAT, ASB		A2718		4	
14	WL100-6	WIRE, BUSS, SZ 20		A2718		14	
4	WL100-8	WIRE, BUSS, SZ 24		A2717		4	

MATERIAL LIST		REV.	B C D E										MODEL	AX413		
													SHEET	13	OF	16
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
				USED ON	USED TO MOUNT	QUAN.										
10	1N547	SCOND DEV,DIO		A3647		1	CR901									
				A3647		1	CR902									
				A3647		1	CR903									
				A3647		1	CR904									
				A3153-6		1	CR910									
				A3153-6		1	CR911									
				A3153-6		1	CR913									
				A3153-6		1	CR914									
				A3153-6		1	CR916									
				A3153-6		1	CR917									
4	1N3006RB	SCOND DEV,DIO,SI	BIAS	A2718		1	CR905									
			P A SCREEN	A2718		1	CR906									
			P A SCREEN	A2718		1	CR907									
			P A SCREEN	A2718		1	CR908									
2	1N3022B	SCOND DEV,DIO,Z		A3153-6		1	CR912									
				A3153-6		1	CR915									
1	1N3033B	SCOND DEV,DIO,Z		A3153-6		1	CR918									
3	2N350A	TRANSISTOR		A2721		1	Q900									
				A2721		1	Q901									
				A2721		1	Q902									

MATERIAL LIST		REV.											MODEL	AX413		
													SHEET	14	OF	16
QUAN. PER UNIT	PART NO.	DESCRIPTION SUPP ASSY/REF DWGS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
				USED ON	USED TO MOUNT	QUAN.										
1	A2717	PANEL ASSY, REAR		AX413		1										
1	A2718	MAIN CHASSIS ASY		AX413		1										
1	A2719	REGULATOR ASSY		A2718		1										
1	A2721	PLATE ASSEMBLY		A2719		1										
1	A3153-6	PC BOARD, RECT		A2719		1										
1	A3647	PC BD, HV RECT		A2719		1										
1	AX413	POWER SUPPLY		AX413		1										
1	CA480-3-5	CABLE ASSY, RF		AX413		1	W901									
1	CA480-3-14	CABLE ASSY, RF		A2717		1	W900									
1	CA480-96-5	CABLE ASSY, RF		A2717		1	W902									
1	CA789	WIRING HARNESS		A2718		1	W903									
1	CH257	CHRT, UNIT BKDN		AX413		1										
1	CK659	DIAG, SCHEMATIC		AX413		1										
1	PC116-3	PC BD SUBASSY		A3647		1										

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST

REV.

B C D E

MODEL AX413

SHEET 15 OF 16

QUAN. PER UNIT	PART NO.	DESCRIPTION SPECIFICATIONS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
1	S404 S785	YELLOW IRIDITE TEST PROCEDURE		ALL MS AX413		1	

MATERIAL LIST

REV.

B C D E

MODEL AX413

SHEET 16 OF 16

QUAN. PER UNIT	PART NO.	DESCRIPTION LOOSE ITEMS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
2	FU102-.125	FUSE,CTG		AX413		2	
2	FU102-.250	FUSE,CTG		AX413		2	
2	FU102-.375	FUSE,CTG		AX413		2	
2	FU102-.5	FUSE,CTG		AX413		2	
1	UG88*/U	CONN,PLUG,RF,BNC	ANT. MATE	AX413		1	

**THE TECHNICAL MATERIEL CORP.
MAMARONECK
NEW YORK**

AX413

LIST NO.

REVISION SHEET

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
1/9/64	A	-----	10711	Revised per EMN	lb
7/29/64	B	-----	11318	Revised per EMN	lb
3/15/65	C	2	13687	Revised per EMN	WJS
6/15/65	D	-----	14239	Revised sheets 3,5,7,9 and 12 per EMN	WJS
2/6/67	E	3	17795	Revised per EMN	al