

PRELIMINARY

FINAL

MATERIAL LIST

TOTAL SHEETS 12

FOR

REVISION

TMC MODEL - BMA 493

TITLE - CHAS ASSY, MN

REV.	SHEET (S)	DATE	APPR.
X		20 SEP 72	[Signature]
X1	Sht 7	10/30/72	EF
X2	4, 8	2/13/73	EF
X	ORIGINAL REL	3/30/73	

EMN
21009

USED ON
MODEL -

HFL()-10K/REV A (AX5167)

CONSISTS OF
SUPPORTING LISTS

AS146
BMA433
BMA433-2

LAST SYMBOLS

SYMBOLS NOT USED

COMPILED B. NAP
CHECKED _____
ENG APPR _____
FNL APPR EF
ISS DATE 3/30/73

ENGINEERING JOB NUMBER
E _____

§ FOR SPECIAL NOTES,
REFER TO S1200.

REV 0

TOTAL SHEET 1 OF
 ASSY SHEET 1 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 490

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA 493

NEXT ASSY:	QTY PER NEXT ASSY:	ITEM LOCATION			QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M				
A4840	ASSY, MATCH NTWK	BMA 493		1	1			
A1546-2	SUPP, PARASITIC	BMA 500		1	1	Z1301		
A1546-4	SUPP, PARASITIC	BMA 500		1	1	Z1302		
AS146	ASSY, BND SW	BMA 493		1	1	A1002	1	
AZ117	ASSY, PC BD	BMA 503		1	1	A1005A1	101	
BMA 433	ASSY, TUNE CAP, AUTO	BMA 493		1	1	A1001	1, 101	
BMA 433-2	ASSY, TUNE CAP, MAN	BMA 493		1	1	A1001	1, 102	
BMA 500	ASSY, AMPL CHAS	BMA 493		1	1			
BMA 501	ASSY, CAP, FDTHRU	BMA 493		1	1			
BMA 502	ASSY, MOT, RF GAIN	BMA 493		1	1			
BMA 503	ASSY, BD, DRIVE UP	BMA 493		1	1	A1005	101	
CA1505	CBL, DR UP	BMA 503		1	1		101	
CC100-16	CAP, FXD, CER	BMA 493		1		C1219	101	
		BMA 493		1	2	C1220	101	
CC100-23	CAP, FXD, CER	BMA 500		1		C1315		
		BMA 500		1	2	C1316		

TOTAL SHEET 2 OF

ASSY SHEET 2 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 490

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA 493

NEXT ASSY:	QTY PER NEXT ASSY:	PART NUMBER (20 digits)	DESCRIPTION (14 digits)	ITEM LOCATION			QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
				USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M				
		CC100-28	CAP, FXD, CER	BMA 503		1		A1005C1	101	
				BMA 503		1		A1005C2	101	
				BMA 503		1	3	A1005C3	101	
		CC100-31	CAP, FXD, CER	BMA 500		1	1	C1308		
		CC100-32	CAP, FXD, CER	BMA 500		1		C1305		
				BMA 500		1		C1306		
				BMA 501		1	3	C1307		
		CC100-35	CAP, FXD, CER	BMA 500		1	1	C1301		
		CC100-37	CAP, FXD, CER	BMA 493		1		C1221	101	
				BMA 493		1		C1311		
				BMA 500		1		C1312		
				BMA 500		1		C1313		
				A4840		1		C1402		
				A4840		1	6	C1403		
		CC100-43	CAP, FXD, CER	BMA 500		1	1	C1303		
		CC100-44	CAP, FXD, CER	BMA 500		1		C1302		
				BMA 500		1		C1304		
				BMA 500		1	3	C1314		

TOTAL SHEET 3 OF
 ASSY SHEET 3 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 493

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA 493

NEXT ASSY:	QTY PER NEXT ASSY:	ITEM LOCATION			QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.	
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M					
		CC109-38	CAP, FXD, CER	BMA 493		1	1	C1318	
		CE105-25-25	CAP, FXD, ELEC	BMA 501		1	1	C1218	
		CE105-200-25	CAP, FXD, ELEC	BMA 503		1	1	A1005C4	101
		CF122-1.37	COIL FORM	CL460		1	1		
		CI101-301	CORE, U	TR193		2	2		
		CI116-18	CORE, TUNING	CL460		1	1		
		CK70AW102M	CAP, FXD, CER	BMA 501		1	1	C1204	
		CK70AW202M	CAP, FXD, CER	BMA 501		1		C1203	
						1		C1205	
						1		C1206	
						1		C1207	
						1		C1208	
						1		C1209	
				BMA 501		1	7	C1217	
		CL101-2	COIL, RF	BMA 500		1	1	L1301	

TOTAL SHEET 4 OF

ASSY SHEET 4 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 492

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA 493

NEXT ASSY:	QTY PER NEXT ASSY:	ITEM LOCATION			QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M				
PART NUMBER (20 digits)	DESCRIPTION (14 digits)							
CL142-Z	COIL, RF	BMA 521		1		L1322		
		BMA 493		1		L1324		
		BMA 522		1		L1325		
		BMA 493		1	4	L1326		
CL178	COIL, RF	BMA 493		1	1	L1328		
CL459	IND, FXD	BMA 522		1	1	L1327		
CL462	COIL, RF, ADJ	BMA 522		1	1	L1323		
CM52B222G23	CAP, FXD, MICA	BMA 521		1	1	C1317		
CM11E222J5S	CAP, FXD	BMA 522		1	1	C1329		
CM112F222F3S	CAP, FXD	BMA 522		1	1	C1312		
CN114-1R2-4J	CAP, FXD	BMA 493		1	1	C1222	121	
CU129-6SS	CLP, HOSE	BMA 493		1	1			
CU163-1	CLP, REL	BMA 493		1	1		121	
EY12-13	GROM, RUB	BMA 521		1	1			
EY12-15	GROM, RUB	BMA 493		1	1			
EY127-2	GROM, NYLON	BMA 521		-	-			
F\$ 125-1	SPRING LATCH LOCK ASSY	BMA 493		1	1		121	X2

TOTAL SHEET 5 OF

ASSY SHEET 5 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 493

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA 493

NEXT ASSY:	QTY PER NEXT ASSY:	ITEM LOCATION			QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M				
PART NUMBER (20 digits)	DESCRIPTION (14 digits)							
GL105	ADH, EPOXY	CL459		-	-			
GL125	ADH, EPOXY	A4840		-	-			
GL130	ADH	CL460		-	-			
GR205-3	GEAR	BMA502		1	1		101	
GR205-47	GEAR	GR239		1	1		101	
GR239	GEAR ASSY	BMA502		1	1		101	
JJ287-20	CONN, RECP FML	BMA 493		1	1	XA1001		
LD2398/MS5559	CHAS, MN	BMA 493		1	1			
LD2399/MS5558	PL, SD, L	BMA 493		1	1			
LD2400/MS5551	BRKT, CAP MTG	BMA 501		1	1			
LD2401/MS5563	PL, GR, RF GAIN	BMA 502		1	1			
MO136-5-UH-F	MOTOR, RF GAIN	BMA 502		1	1	B1301	101	
MS203-3-3.000	LEAD, CONN	CL459		1	1			

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

TOTAL SHEET 6 OF
 ASSY SHEET 6 OF 12

NEXT ASSY:	QTY PER NEXT ASSY:	USED ON MODEL: BMA 493				ASSY TITLE: CHAS ASSY, MN			ASSY PART NO.: BMA 493		
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M	QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.			
PART NUMBER (20 digits)	DESCRIPTION (14 digits)	ITEM LOCATION									
MS4637	BRKT,	BMA493		1	1						
MS5534	BRKT, XFMR	TR193		1	1						
MS5551	BRKT, CAP MTS	LD2402/MS5551		1	1						
MS5553	PL, GR, RF GAIV	LD2401/MS5553		1	1						
MS5558	PL, SD, L	LD2399/MS5558		1	1						
MS5559	CHAS, MN	LD2398/MS5559		1	1						
MS5569	CHAS TUBE MTS	BMA500		1	1						
MS5638	COV, DR UP	BMA 493		1	1						
MS6383	BRKT, RES MTS	BMA501		1	1						
NS3W0204	INS, STDOFF	CL459		1	1						
NS3W0212	INS, STDOFF	CL459		1	1						
PX1051-1	INS, TERM	TR193		2	2						
PX1051-2	INS, TERM	TR193		2	2						

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ASSY SHEET 7 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 490

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA 493

NEXT ASSY:	QTY PER NEXT ASSY:	ITEM LOCATION			QTY PER ASSY:	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M				
PART NUMBER (20 digits)	DESCRIPTION (14 digits)							
RC20GF102J	RES FXD, COMP	BMA 500		1	1	R1302		
RC20GF103J	RES FXD, COMP	BMA 493		1	1	R1210	101	
RC20GF223J	RES FXD, COMP	BMA 493		1	1	R1209	101	
RC20GF271J	RES FXD, COMP	BMA 501		1	1	R1304		
RC20GF333J	RES FXD, COMP	BMA 500		1	1	R1310		
RC20GF470J	RES FXD, COMP	A1546-2		1	1	-		
RC20GF471J	RES FXD, COMP	BMA 493		1	1	R1208	101	
RC32GF100J	RES FXD, COMP	BMA 500		1	1	R1305		
RC42GF100J	RES FXD, COMP	BMA 493		1	1	R1205		
RC42GF120J	RES FXD, COMP	BMA 500		1	1	R1306		
RC42GF154J	RES FXD, COMP	BMA 500		1	2	R1313		X
RC42GF182J	RES FXD, COMP	BMA 500		1	1	R1314		X
RC42GF183J	RES FXD, COMP	A-1546-4		1	1	-		
RC42GF183J	RES FXD, COMP	BMA 500		1	1	R1308		
RC42GF222J	RES FXD, COMP	BMA 500		1	1	R1307		
RC42GF331J	RES FXD, COMP	BMA 500		1	1	R1311		
RC42GF391J	RES FXD, COMP	BMA 493		1	1	R1206	101	
RC42GF472J	RES FXD, COMP	BMA 493		1	1	R1312		

TOTAL SHEET 8 OF

ASSY SHEET 8 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 490

NEXT ASSY:	QTY PER NEXT ASSY:	ASSY TITLE: CHAS ASSY, MN			ASSY PART NO.: BMA 493		REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M	QTY. PER ASSY.				
PART NUMBER (20 digits)	DESCRIPTION (14 digits)	ITEM LOCATION							
RL156-1	REL, ARM	BMA493			1	1	K1201	101	
RL185-1	REL, ARM	A4840			1	1	K1401		
RR114-5W	RES, FXD, COMP	BMA 501			1		R1202		
		BMA 501			1		R1203		
		BMA 501			1	3	R1211		
RR116-1400W	RES, FXD, COMP	A4840			1	1	R1401		X2
RV4NAYSK500A	RES VAR, COMP	BMA 502			1	1	R1301		
RV106UX8B25ZA	RES VAR, COMP	BMA 501			1	1	R1303		
RW107-28	RES, FXD, WW 5W	BMA 493			1	1	R1201	101	
RW109-28	RES, FXD, WW 10W	BMA 493			1	1	R1309		
RW110-1	RES, FXD, WW 20W	BMA 493			1	1	R1207		
RW111-5	RES, FXD, WW 25W	BMA 493			1	1	R1204		

TOTAL SHEET 9 OF

ASSY SHEET 9 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 490

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA 493

NEXT ASSY:	QTY PER NEXT ASSY:	ITEM LOCATION			QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M				
SM140-2	BUSH, COIL FORM	CL460		2	2			
SW353-2	SW,	BMA 502		1		S1301	101	
				1	2	S1302	101	
TE101-3	BUSH, SLOT HEAD	BMA 501		1	1	E1203		
TE102-2	TERM, TUR	BMA 493		1		E1201		
		BMA 501		1		E1202		
		BMA 493		1		E1205		
		BMA 493		1		E1206	101	
		BMA 493		1		E1207		
		BMA 493		1		E1208	101	
		BMA 493		1		E1209	101	
		BMA 493		1		E1210		
		BMA 500		1		E1305		
		BMA 500		1		E1306		
		BMA 500		1		E1307		
		BMA 500		1		E1308		
		BMA 500		1		E1309		
		BMA 501		1		E1310		
		BMA 500		1		E1311		
		BMA 493		1		E1312		
		BMA 493		1		E1313		

TOTAL SHEET 10 OF

ASSY SHEET 10 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 490

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA 493

NEXT ASSY:	QTY PER NEXT ASSY:	DESCRIPTION (14 digits)	ITEM LOCATION			QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
			USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M				
			BMA 493		1		E1314		
			BMA 493		1		E1315		
			BMA 500		1	20	E1316		
TE104-2		TERM, LUG, LKG	BMA 493		2				
			BMA 501		2	4			
TE104-3		TERM, LUG, LKG	CL459		1	1			
TE104-5		TERM, LUG, LKG	BMA 501		3	3			
TE111-2		TERM, LUG	BMA 502		1	1			
TE116-2		TERM, LUG	BMA 493		1	1			
TE117-22		SPCR	BMA 500		2	2			
TE135-3		SPCR, THD	BMA 493		4	4		101	
TE135-22		SPCR, THD	GR239		1	1		101	
TE149-120		TERM, LUG	BMA 493		5				
			BMA 501		2	7			
TE149-144		TERM, LUG	BMA 493		3				
			BMA 500		7				
			BMA 501		1	11			
TE169-1		TERM, TEFL	BMA 502		1		E1301		
			BMA 502		1		E1302		
			BMA 502		1		E1303		
			BMA 502		1	4	E1304		
TE181-4		COLLAR, RING	CL460		2	2			

TOTAL SHEET 11 OF

ASSY SHEET 11 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA493

NEXT ASSY: QTY PER NEXT ASSY:

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA493

PART NUMBER (20 digits)	DESCRIPTION (14 digits)	ITEM LOCATION			QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M				
TR193	XFMR, INTER-STAGE	A4842		1	1	L1421		
TS171-1	SOC, REL	BMA493		1	1	XK1221		
TS177-3	BASE, SHLD, TUBE	BMA522		1	1			
TS178-1	SHLD, TUBE	BMA493		1	1			
TS197	SOC, EL TUBE	BMA522		1	1	XV1322		
TS198	SOC, EL TUBE	BMA522		1	1	XV1321		
WA122-4	WASH, FBR, SHLD	BMA493 BMA493		2 2	4		121	
WA129-45	WASH, FBR	CL459		2	2			
WI123-22	WIRE, ELEC	TR193		-	-			
WI123-22	WIRE, ELEC	CL459		-	-			
WI123-32	WIRE, ELEC	CL462		-	-			
WI125-9	WIRE, ELEC	A1546-4		-	-			
WL122-7	WIRE, ELEC, BUSS	A1546-2 A4842		-	-			
WL122-8	WIRE, ELEC, BUSS	CL462		-	-			

TOTAL SHEET 12 OF
 ASSY SHEET 12 OF 12

PRELIMINARY MATERIAL LIST/NUMERICAL PARTS LIST

USED ON MODEL: BMA 490

ASSY TITLE: CHAS ASSY, MN

ASSY PART NO.: BMA 493

NEXT ASSY:	QTY PER NEXT ASSY:	ITEM LOCATION			QTY. PER ASSY.	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200	REV.
		USED ON ASSEMBLY	USED TO MOUNT	QTY PER U/T/M				
IN34A	SCOND DEV, DIO	BMA 493		1	1	CR1203	101	
IN547	SCOND DEV, DIO	BMA 493		1	1	CR1201	101	
IN645	SCOND DEV, DIO	BMA 503		1	1	AL005CRI	101	
IN3022B	SCOND DEV, DIO	BMA 493		1	1	CR1202	101	
4CX350A	TUBE, EL	BMA 493		1	1	V1302		
8233	TUBE, EL	BMA 493		1	1	V1301		
10/30/72 REV X1	EMN 20926							
2/15/73 REV X2	EMN 21009							