

TMC SPECIFICATION

NO. S 1207

REV:

X Ø A B

COMPILED: M. STURMER

CHECKED:

CDH

APPD:

SPM

SHEET

1

OF

6

TITLE:

DDR-5L TO DDR-5M

CONVERSION

KIT 218-2

TMC SPECIFICATION

NO. S 1207

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SHEET 2 OF 6

TITLE: DDR-5L TO DDR-5M CONVERSION KIT 218-2

I. EQUIPMENT AFFECTED:

DDR-5L, Dual Diversity Radio Receiver.

II. PURPOSE:

Kit 218-2 converts Model DDR-5L by the addition of a Model HFS-() Synthesizer, Model HFP-() Power Supply, A-4084 Sync Tone Relay Assembly and associated cables. Installation of KIT-218-2 allows frequency control of each RF Tuner HFR-() by an individual Synthesizer HFS-().

III. MATERIALS SUPPLIED IN KIT-218-2.

Table 1 lists all materials supplied in KIT-218-2.

TABLE 1. MATERIAL SUPPLIED

TK115-18	Track & Slide set (HFS)	1
TK114-18	Track & Slide set (HFP)	1
A3517	Retractor Assembly	2
LD1901	Name Plate, .5 AMP	1
CA1037-11	Cable Assy. Special Purpose 15/C1	1
CA412-34-54	Cable Assy. Jumper	1
A4084	Synch Tone Relay Assy.	1
FU102-.500	Fuse	1
CA480-3-150	Cable, RF	1
CA696-1	Cable, AC	1
CA1036-2	Cable Assembly SP	1
CA1061-5	Cable Assy. SP.	2
CA1115	Wiring Harness BR.	1
SCBP1032BN6	Screw, Machine	4
SCBP0632BN6	Screw, Machine	2
LWE10MRN	Lockwasher, Ext. Tooth	4
LWE06MRN	Lockwasher, Ext. Tooth	2
CU142 -2-9	Plastic tie wraps	150
CU142-3-9	" " "	15
PX100-1-.148	Insulating Sleeving, Elect.	1 ft.
CA480-3-12F	Cable Assy. R.F.	3
CA480-3-11F	Cable Assy. R.F.	3
CA480-3-12.5F	Cable Assy. R.F.	1
CA480-3-90	Cable Assy. R.F.	1
CA480-3-80	Cable Assy. R.F.	2
CK996	Schematic Diagram	1
IN356	Instruction Manual DDR-5M	2
HFS ()	SYNTHESIZER, with Technical Manual when other than HFS-1 is supplied.	1
HFP ()	POWER SUPPLY, with Technical Manual when other than HFP-1 is supplied	1
NP362-46	Nameplate (Kit 218-2)	1

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P6515-2	J6515-2	MSA-() 2
P6002-2	J6002-2	MCG-() 2
P6013-2	J6013-2	MCG-() 2
P8003-2	J8003-2	HFP-() 2
P8005-2	J8005-2	HFP-() 2
P8007-2	J8007-2	HFP-() 2

- H. Open the Plug P8005-2 of the HFP-() of receiver #2 and disconnect the leads from pins D and C and mark each lead with the appropriate letter. i.e. C-Wht, D-Wht/Blk. Close up the plug and tie it back out of the way leaving the two leads free for later use. *
- I. Open the plug P8005-1 of the HFP-() of receiver #1 and disconnect the leads from Pin C & D ----- procede as in step H.
- J. Open the plug P8010-1 of the HFP-() of receiver #1 and disconnect the leads, which originate from the small black tubing, from Pins A and B ----- procede as in step H.
- K. Connect new cables in receiver 2 as indicated in table 3 and instructions below.

TABLE 3.

CABLE PART NO.	CABLE CONNECTIONS			
	FROM UNIT	JACK	TO UNIT	JACK
CA480-3-12F	HFR-()	J1304	HFS-()	J3012
CA480-3-12F	HFR-()	J1302	HFS-()	J3009
CA480-3-12F	HFR-()	J1307	HFS-()	J3008
CA480-3-11F	HFR-()	J1303	HFS-()	J3017
CA480-3-11F	HFS-()	J3018	MCG-()	J6002
CA480-3-90	HFS-()	J3014	A4084	J8507
CA480-3-11F	HFS-()	J3010	MCG-()	J6013
CA480-3-150	HFS-()	J3020	HFS-()	J3019
				RCVR#1
CA480-3-80	MSA-()	J6525	A4084	J8505
CA480-3-80	MSA-()	J6524	A4084	J8506
CA1037-9	HFS-()	J3001	HFP-()	J8007
CA1115	MSA-()	J6515	HFP-()	J8005
	A4084	TERM. BD.	HFP-()	P8005-2
				RED TO PIN-K
				WHT/RED TO PIN-V
CA1061-5	A4084	TERM. BD.	HFP-()	J8005
				RED TO PIN-K
				WHT/RED TO PIN-V

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- L. Solder in the Wht. & Wht/Blk wires (removed in step H) to C and D of P8005-2 and assemble plug.
- M. Mount the A4084, Synch Tone Relay inside the center post of the cabinet approximately 39 inches up to the top screw from the bottom of the cabinet. Make connections to J8505, J8506 and J8507 per Table 3.
- N. Run the balance of CA1115 over to receiver #1 following existing cable run (over door) and down the right side (facing rear).
- O. In receiver #2 (using plastic straps supplied) strap all added cable to existing cable runs. Receiver #2 is now complete.
- P. Connect new cables in Receiver #1 as indicated in table 4 and instructions below.

TABLE 4

CABLE PART NO.	CABLE CONNECTIONS			
	FROM UNIT	JACK	TO UNIT	JACK
CA1037-11	HFR-()	J1305	#1 HFP-()	J8010
CA696-1	#3 HFP-()	J8001	FL8501	TERMINAL
BALANCE OF CA1115	MSA-()	J6515	#3 HFP-()	J8003 J8005 J8007 J8006 J8008 J8010
CA1061	A4084 DISCONN. WIRES & TAPE OFF.	TERM. BD. EXIST.	#1 HFP-() #1 HFP	J8005 P8005 RED TO PIN-K WHT/RED TO PIN-V

- Q. Solder the wht & wht/blk wires (removed in step I.) to C and D of P8005-1 and assemble plug.
- R. Solder the grey and wht/grey leads (removed in step J) with grey and wht/grey on Pin A & B of P8010-1, and assemble plug.
- S. Proceed as in step O.
- T. Make changes in HFP's as follows:
 - 1. Remove the front panel screws on HFP-() #2 and tilt panel down. Loosen nut on XF8019 and remove .5 AMP fuse marker from under fuse holder and retain. Remove jumper between F8010 & F8012 and add jumper between F8012 & F8019. Replace front panel.

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2. Remove the front panel screws on HFP-() #1 and tilt panel down. Remove jumper between F8010 & F8012 and add jumper between F8012 & F8019. Replace front panel.
3. Remove the front panel screws on HFP-() #3 tilt panel down. Loosen the nuts on XF8019 and XF8014 and insert the .5 AMP fuse markers (one previously removed and one supplied in this kit.)
4. The polarity of the AC power into HFP-() #2 & #3 must be maintained. When turning the #2 receiver on, if the Amber Time Delay light on the #2 & #3 HFP-() does not come on and/or a relay chatter is noted, turn receiver off. Remove all AC Power from rack. Disconnect P8001-3 from the #3 HFP-(). Disassemble the plug and swap the white and black wires. Reassemble the plug and reconnect to J8001-3. Turn on power.

NOTE

IF Technical Manuals are supplied for Synthesizer HFS or Power Supply HFP, bind these manuals with the DDR-5M as indicated in step 5.

5. Remove DDR-5L Technical Manual and replace it with the DDR-5M Technical Manual supplied with this Modification.

