

TMC SPECIFICATION

NO. S 1187

REV:

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COMPILED:

BN

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APPD:

DB Miller

SHEET

1

OF

10

TITLE:

4/19/67 /jb

KIT 334

MODIFICATION PROCEDURE

GPT()-2.5K

TRANSMIT-RECEIVE RELAY KIT

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TITLE: KIT 334 MODIFICATION PROCEDURE GPT()-2.5K

TRANSMIT-RECEIVE RELAY KIT

I. EQUIPMENT EFFECTED:

TMC GPT()-2.5K Series Transmitters.

II. PURPOSE:

To provide TMC Model GPT()-2.5K Transmitters with the ability to operate in conjunction with a receiver using a common antenna. The addition of this kit does not effect the model number. To accomplish this modification, a coaxial relay is added to the RF line.

III. MATERIALS REQUIRED:

Table 1 lists the material supplied with the field change kit. Table 2 lists the tools necessary to accomplish this modification. These are standard tools and are not supplied with the kit.

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TRANSMIT-RECEIVE RELAY KIT

Table 1

ITEM	SYMBOL	QTY.	P/N	DESCRIPTION
1		1	CA480-138-6	Cable, Ass'y, RF
2		1	CA1331	Cable, Special Purpose
3		2	CK1338	Diagram, Schematic
4		2	CU102-3	Clamp, Loop
5		1	CU102-4	Clamp, Loop
6		2	MS5018	Bracket, Relay Mtg.
7		1	MS5109	Bracket, Relay Mtg.
8		6"	PX100-1-133	Insulation, Sleaving
9		6"	PX100-1-315	Insulation, Sleaving
10	K8001	1	RL168-2C10-24VDC	Relay, Armature
11	K8000	1	RL177	Relay, Coaxial
12		1	TM105-14AR	Terminal, Strip, Fanning
13	XK8001	1	TS101-PO1	Socket, Octal
14		6"	WL100-7	Wire, Buss
15		6	SCBP0832BN8	Screw, Machine
16		4	SCBP0832BN10	Screw, Machine
17		3	SCBP0632BN6	Screw, Machine
18		2	SCFP0632BN6	Screw, Machine, Flathead
19		10	FW08HBN	Washer, Flat
20		1	FW06HBN	Washer, Flat
21		10	LWE08MRN	Washer, Lock, External

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TRANSMIT-RECEIVE RELAY KIT

Table 1 - (continued)

ITEM	SYMBOL	QTY.	P/N	DESCRIPTION
22		5	LWE06MRN	Washer, Lock, External
23		2	NTH0832BN10	Nut, Hex Head
24		5	NTH0632BN8	Nut, Hex Head
25		1		Drill Bit 5/32"
26		1		Countersink, 1/4" Shank
27		36"	BS100	Solder, Tin Alloy
28		36"	CD101-1MW	Cord, Lacing, Nylon
29		1 Roll	TA100-2	Tape, Electrical, 1/2 w

Table 2

1. Screwdriver, Phillips
2. Screwdriver, Flat Blade
3. Pliers, Long Nose
4. Pliers, Diagonal Cutting
5. Drill Motor, 1/4"
6. Soldering Iron

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TRANSMIT-RECEIVE RELAY KIT

IV. PROCEDURE:

A. COAXIAL RELAY ASSEMBLY (RL177)

1. Cover the wires of the relay with the 6" piece of 5/16" tubing. (PX100-1-315).
2. Using one each 3/8" #6 screw, flat washer, lock washer, nut and the 5/16" clamp, mount the 14 terminal fanning strip (TM105-14AR) to the end of the tubing.
3. Wire the strip as shown in Fig. 1.
4. Using four each 5/8" #8 screws, flat washers and lock washers, mount two brackets (MS5018) to the relay.

B. MODIFICATION OF FRAME:

1. Remove the Rear and Right side covers.
2. Using Fig. 2, mark, drill and countersink the frame.

C. PREPARATION OF CABLE (CA1331)

1. On the relay socket (TS101-P01) solder the buss wire (WL100-7) from Pins 3 and 5 to the ground lugs.
2. Cut the small tubing (PX100-1-133) into 1" lengths.
3. Using a piece of the tubing over each lead, solder the cable leads to the socket using Fig. 3.
4. Using two each 3/8" #6 screws, lockwashers and nuts, mount the socket to the relay bracket as per Fig. 4.

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D. INSTALLATION:

1. Remove the round cover plate from the top of the rack.
2. Using four each 1/2" #8 screws, flat washers and lock washers, mount the coaxial relay to the rack.
3. On E8008, remove the fanning strip that is already connected. Insulate it using the electrical tape and tie it back to the main cable.
4. Connect the 14 terminal strip of the cable to E8008 in this position. Connect the terminal strip of the coaxial relay to the open terminals of E8008.
5. Using two each #6 flathead screws, lockwashers and nuts mount the small relay bracket to the rack using the two holes previously drilled. The cable should run in the corner of the rack.
6. Route the cable to the channel. Using two each 1/4" clamps, 1/2" #8 screws, flatwashers, lockwashers and nuts, clamp the cable to the channel.
7. Connect the 11 terminal strips to E8006, Terminals 1 thru 11. Connect the External Interlock circuit, if any, to the first three terminals of the fanning strip.
8. Check to see that the coaxial relay is allowed free movement.

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9. Mount the small relay (RL168-2C10-24VDC) into the octal socket.
10. Replace the side and back.
11. Connect the RF cable (CA480-138-6) from CP8000, RF output to Jack 4. Connect the Antenna to Jack 1. Connect the receiver to Jack 2.
12. This completes the installation of the Kit.

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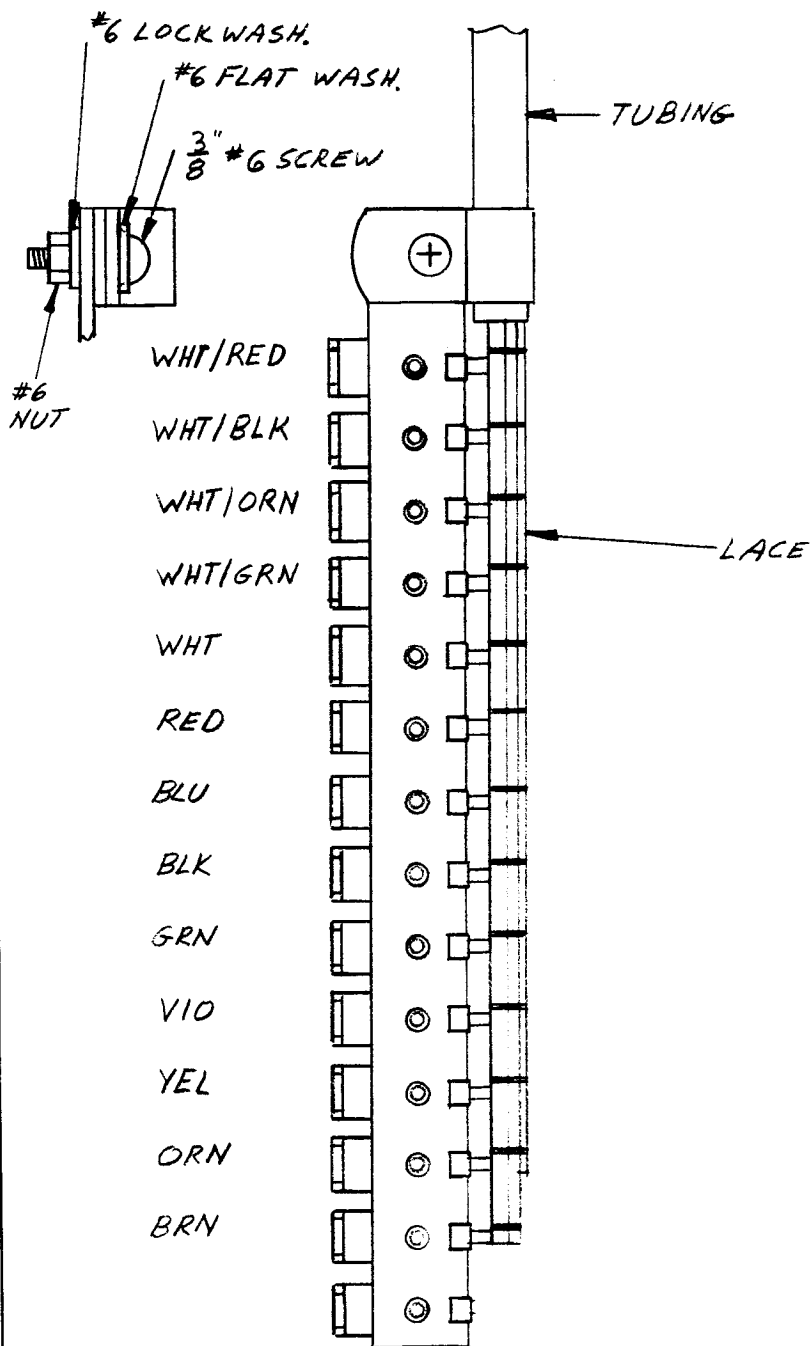


Fig. 1

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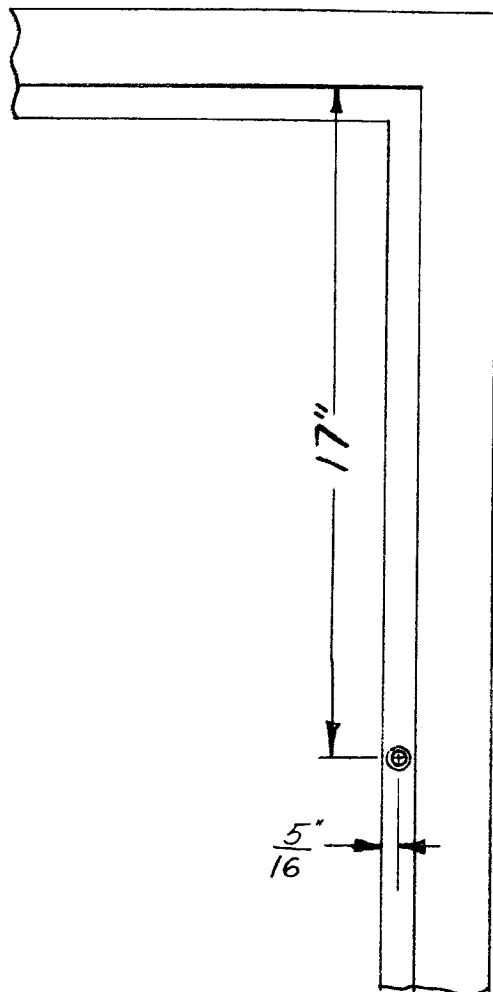
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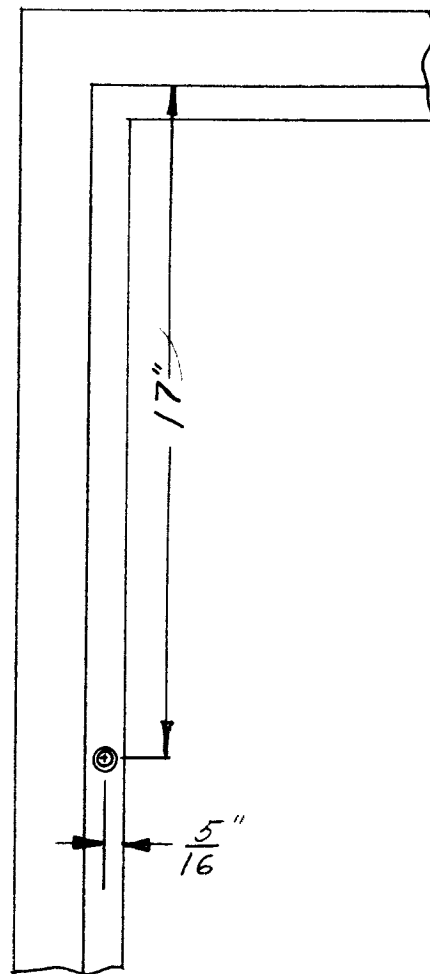
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RIGHT SIDE



REAR



DRILL $\frac{5}{32}$ " HOLE
COUNTERSINK FOR 6-32 FLAT HEAD SCREW

Fig. 2

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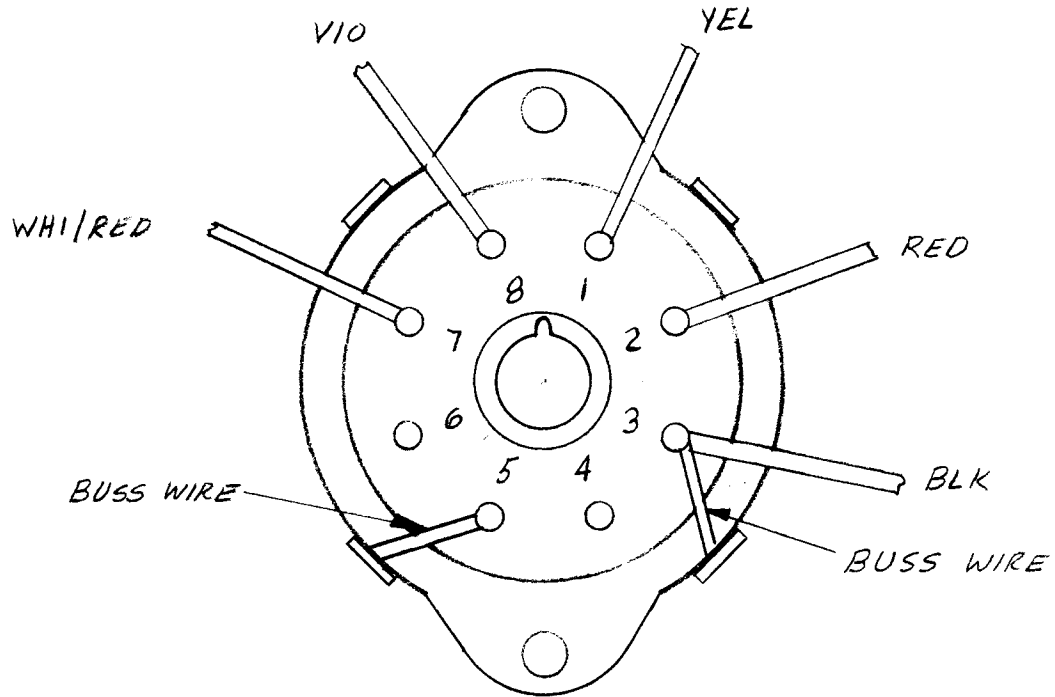


Fig. 3

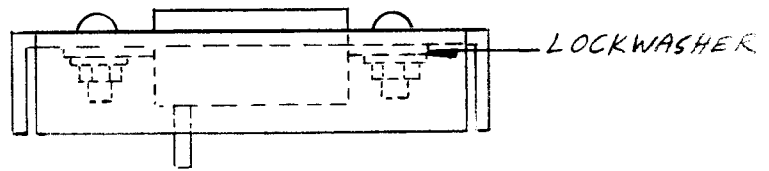


Fig. 4

