WAR DEPARTMENT TECHNICAL MANUAL

W5-020

INSTAILATION OF RADIO AND

FACSIMILE EQUIPMENT IN

TRUCK, 3/4-TON, 4x4,

COMMAND RECONNAISSANCE

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INSTALLATION OF RADIO AND FACSIMILE EQUIPMENT IN TRUCK, 3/4-TON, 4 x 4, COMMAND RECONNAISSANCE



WARDEPARTMENT

M A R C H 1945

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WAR DEPARTMENT
Washington 25, D. C., 10 March 1945

TM 11-2726, Installation of Radio and Facsimile Equipment in Truck, ¾-ton, 4x4, Command Reconnaissance, is published for the information and guidance of all concerned.

[AG 300.7 (9 Feb 45)]

BY ORDER OF THE SECRETARY OF WAR:

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For explanation of symbols, see FM 21-6.

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DESTRUCTION NOTICE

WHY — To prevent the enemy from using or salvaging this equipment for his benefit.

WHEN — When ordered by your commander.

- HOW -1. Smash Use sledges, axes, handaxes, pickaxes, hammers, crowbars, heavy tools.
 - 2. Cut Use axes, handaxes, machetes.
 - 3. Burn Use gasoline, kerosene, oil, flame throwers, incendiary grenades.
 - 4. Explosives Use firearms, grenades, TNT.
 - 5. Disposal Bury in slit trenches, fox holes, other holes. Throw in streams. Scatter.

USE ANYTHING IMMEDIATELY AVAILABLE FOR DESTRUCTION OF THIS EQUIPMENT

- WHAT 1. Smash All vacuum tubes, crystals, control dials, coupling coils, transformers, speakers in receivers, external loudspeakers, microphones, headsets, dynamotors, and cable connectors.
 - 2. Cut All connecting wires, cording, and cabling.
 - 3. Burn All equipment, and all associated training, technical, and installation manuals.
 - 4. Bury or scatter All remains, after destroying their usefulness.

DESTROY EVERYTHING

SAFETY NOTICE

This equipment uses high voltages which are dangerous to life. Observe all safety precautions.

- 1. Make no adjustments inside the equipment with the power switch on.
- 2. Do not operate the equipment with the shields removed.
- 3. Do not connect power to any unit of these sets until operating instructions have been read completely.

SECTION I

GUIDE TO USE OF MANUAL

1. Purpose

This manual provides methods and procedure, based upon actual field experience, for installation of radio and facsimile equipment in Truck, 3/4-ton, 4x4, Command Reconnaissance. Items required to make a complete operating installation are listed for each set. Official nomenclature followed by empty parentheses, such as Headset HS-30-(), is used to indicate any model of equipment regardless of its procurement.

2. Equipment

Installations covered include Facsimile Equipment RC-58-() and the following radio sets:

SCR-193-Q SCR-508-() SCR-608-() SCR-245-T SCR-510-() SCR-610-()

SCR-506-() SCR-528-() SCR-628-()

3. Holes and Brackets

Brackets required for installation of the radio set or facsimile equipment are normally drilled and installed prior to delivery of Truck, ¾-ton, 4x4, Command Reconnaissance. Drilling in-

structions are given in this manual for any other necessary holes and brackets. Do not relocate any holes or brackets unless absolutely necessary.

4. Preliminary Check

Study the illustrations, the installation methods outlined, and any subsequent changes to this manual.

Caution. Truck, ¾-ton, 4x4, Command Reconnaissance has a 12-volt electrical system. Before installing the radio sets or facsimile equipment, be sure they are designed for 12-volt operation, or tubes may burn out or dynamotors may be damaged.

5. Operating Check

Carefully study the technical manual covering the radio set or facsimile equipment before trying to operate it; then, make a thorough operating check to determine whether the equipment has been properly installed and is in working order.

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SECTION II

IGNITION NOISE SUPPRESSION IN TRUCK, 3/4-TON, 4x4, COMMAND RECONNAISSANCE

6. General

Excessive ignition or other electrical noises may interfere with the operation of radio and facsimile equipment in Truck, ¾-ton, 4x4, Command Reconnaissance. The technical manual issued with the vehicle will be helpful in locating the source of the noise, since it describes the suppression system used. Instructions for oprating radio and facsimile equipment used in the vehicle also should be studied. Refer to TM 11–483 for additional information on suppression of ignition noise in vehicles.

7. Procedure

Locate and suppress ignition noises as follows:

- a. Start the motor of the vehicle and turn on the radio set. Put the receiver sensitivity control at maximum; then, listening to the receiver output with a headset, slowly tune the receiver over the entire range of frequencies to be used for communication.
- b. When the frequency (or frequencies) with greatest noise level is found, turn off the vehicle engine. If this noise continues, the source is outside the ignition system. If noise stops, the trouble is in the ignition system.
- c. Start the engine again. Adjust the receiver sensitivity control until engine noises can be distinguished easily from static, etc. Interference may then be identified as follows:

Interference

Popping sound: corresponds to ignition firing; stops when engine is turned off; accelerates when engine is raced.

Intermittent, clicking sound: lingers for several seconds when ignition is turned off.

Whining sound: varies with speed of engine; ceases only when generator stops rotating.

Sparking, or continuous crackling noise.

Usual source

Ignition system.

Generator regulator.

Generator.

Brushes and commutator of generator.

- d. Interference from other electrical parts and circuits of the vehicle, such as panel gauges and heater fans, can usually be identified by turning off the gauges, fans, or other suspected mechanisms individually.
- e. If the source of interference still cannot be found by any of the preceding methods, connect a probe antenna (fig. 23) to the antenna terminal of the radio set. Slowly move the loop of the probe antenna over the various parts of the electrical system of the vehicle. Keep the loop close to, but not in contact with, the part being examined. Noise from interference-producing parts should be heard in the receiver.
 - f. Usually interference can be eliminated by
- cleaning, tightening, or replacing noise-producing parts. Examine and tighten all suppressor and shielding components, and all connections and grounding bonds. Clean the surface under them. This will assure good electrical contact between wires and terminals, and between metal casings and the frame of the vehicle. (Insulated but ungrounded metal parts absorb and reradiate electrical noises.)
- g. If interference persists, suppressor components should be checked by substituting new ones. If a replacement is not available, disconnect the suspected component, and test capacitors, resistors, and chokes within it. Replace any that are defective.

SECTION III

FACSIMILE EQUIPMENT RC-58-()

8. Required Parts
Items necessary for installation of Facsimile

Equipment RC-58-() in Truck, ¾-ton, 4x4, Command Reconnaissance are listed below:

Quantity	Stock No.	Item
	2C408	Amplifier BC-908-(), including two Dynamotors DM-21-(), Mounting FT-
1 set¹		318-(), set of installed tubes, fuses, and lamps. Brackets and shelves as follows: 2 brackets (Item 13, fig. 1).
		1 shelf (Item 11, fig. 1). 2 brackets (Item 12, fig. 1). 1 shelf (Item 10, fig. 1).
1 set ²		Brackets and plates as follows: 2 brackets (Item 9, fig. 2). 2 supporting plates (Item 10, fig. 2).
$1 \mathrm{set^3}$		Brackets and shelves as follows: 2 brackets (Item 20, fig. 3). 1 shelf (Item 19, fig. 3).
1 1	2Z2599-108 6Z3147	Chest CH-108-(), for spare parts. Connector No. 61007 and Bondnut BL-50.
1	3E1606	Cord CD-606-(), connecting Amplifier BC-908-() to Recorder Scanner BC-918-().
1 1	3E1608 3E1999-18	Cord CD-608-(), connecting Amplifier BC-908-() to vehicle terminal box. Cord CD-1018-(), connecting Amplifier BC-908-() to radio receiver.
1 1	3E1999-19 2Z3400-118	Cord CD-1019-(), connecting Amplifier BC-908-() to radio transmitter. Cover BG-118-(), for Recorder Scanner BC-918-().
1	2Z3400-128 6L50-58V15	Cover BG-128-(), for Amplifier BC-908-(). Hardware bag.
	6C262-918	Recorder Scanner BC-918-() (12-volt), including two Motors MO-28-(), Mounting FT-328-(), set of installed tubes, two Vibrators VB-3-(), two Resistors RS-288, and two regulator resistors.
50 rolls	6M1540 2C25-58/SP	Tape M-298. Spare parts.
$\frac{1}{2}$	6D13047 6M2200	TM 11-374, for Facsimile Equipment RC-58-(). Writing Stand MC-308-().
3 ft	1B128	Wire W-128.

¹Used for installation of Facsimile Equipment RC-58-() in combination with Radio Sets SCR-193-Q and SCR-510-().

²Used for installation of Facsimile Equipment RC-58-() in com-

bination with Radio Set SCR-506-().

3Used for installation of Facsimile Equipment RC-58-() in combination with Radio Sets SCR-506-() and SCR-510-().

9. Assembly and Installation

Note. Before proceeding with this installation perform all necessary drilling of vehicle (fig. 1).

a. Facsimile Equipment RC-58-() in Combination with Radio Sets SCR-193-Q

AND SCR-510-(). Components of Facsimile Equipment RC-58-(), in above combination, should be installed in Truck, 3/4-ton, 4x4, Command Reconnaissance (fig. 1) as directed below:

Part and location

One shelf and two brackets (Items 11 and 13, fig. 1), on right side of vehicle above rear seat.

One shelf and two brackets (Items 10 and 12, fig. 1), on left side of vehicle above rear seat.

Method and materials

Secure brackets and shelf in position with hardware provided as shown in figure 1. Use shakeproof washers as shown on detail in figure.

Secure brackets and shelf in position with hardware provided as shown in figure 1. Use shakeproof washers as shown on detail in figure.

Wire W-128 and two terminals (Items 22 and 23, fig. 1).

Mounting FT-318-() (Item 8, fig. 1) on shelf (Item 11, fig. 1).

Mounting FT-328-() (Item 9, fig. 1) on shelf (Item 10, fig. 1).

Recorder Scanner BC-918-() (Item 2, fig. 1), on Mounting FT-328-().

Amplifier BC-908-() (Item 1, fig. 1), on Mounting FT-318-().

Cord CD-606-() (Item 18, fig. 1).

Cord CD-608-() (Item 19, fig. 1).

Cords CD-1018-() and CD-1019-() (Items 20 and 21, fig. 1).

Cover BG-118-() (Item 14, fig. 1).

Cover BG-128-() (Item 15, fig. 1).

Writing Stand MC-308-() (Item 7, fig. 1).

Chest CH-108-().

Method and materials

Prepare two ground wires for Recorder Scanner BC-918-() and Amplifier BC-908-() as follows: Cut two 8-inch lengths of Wire W-128. Strip and solder-tin ½ inch of each end. Solder a terminal to one end of each length.

Secure Mounting FT-318-() in position with hardware provided, and secure terminal of one ground wire with a screw securing front of Mounting FT-318-() to shelf.

Secure Mounting FT-328-() in position with hard-ware provided, and secure terminal of one ground wire with a screw securing front of Mounting FT-328-() to shelf.

Place Recorder Scanner BC-918-() in position and secure in place with snap slide fasteners provided. Connect ground wire to GROUND binding post on front panel of recorder scanner.

Place Amplifier BC-908-() in position and secure in place with snap slide fasteners provided. Connect ground wire to GROUND binding post on front panel of amplifier.

Use Cord CD-606-() to connect amplifier to recorder scanner. Route cord as shown in figure 1 and secure in place with clamps provided.

Refer to figure 1. Connect Cord CD-608-() to Amplifier BC-908-() and route to vehicle terminal box. Secure in place with clamps provided. Install connector No. 61007 and Bondnut BL-50 in knock-out hole in vehicle terminal box to secure Cord CD-608-(). Connect white lead of Cord CD-608-() to positive terminal and black lead to negative terminal inside vehicle terminal box.

Insert plugs on cords into headset and microphone jacks on amplifier and into headset and microphone jacks on Radio Receiver BC-312-(). Secure cords in place as shown in figure 1. If desired, cords can be plugged into Radio Set SCR-510-() when set is installed.

Place over Recorder Scanner BC-918-().

Place over Amplifier BC-908-().

Use when writing message on tape. When not in use, stow in convenient place in vehicle.

Stow all spare parts in Chest CH-108-() and stow chest in convenient place in vehicle.

b. Facsimile Equipment RC-58-() in Combination with Radio Set SCR-506-(). Components of Facsimile Equipment RC-58-

() in above combination should be installed in Truck, 3/4-ton, 4x4, Command Reconnaissance (fig. 2) as directed below:

Two brackets and two supporting plates (Items 9 and 10, fig. 2), on floor and to left rear wheel well.

Wire W-128 and two terminals (Items 19 and 20, fig. 2).

Mounting FT-318-() (Item 7, fig. 2), on floor of vehicle underneath Radio Set SCR-506-().

Mounting FT-328-() (Item 8, fig. 2), on supporting plates.

Recorder Scanner BC-918-() (Item 2, fig. 2), on Mounting FT-328-().

Amplifier BC-908-() (Item 1, fig. 2), on Mounting FT-318-().

Cord CD-606-() (Item 15, fig. 2).

Cord CD-608-() (Item 16, fig. 2).

Cords CD-1018-() and CD-1019-() (Items 17 and 18, fig. 2).

Method and materials

Refer to figure 2. Secure one bracket to floor of vehicle and to left rear wheel well. Secure other bracket to floor of vehicle and to map compartment. Secure supporting plates on top of brackets, using hardware provided. Apply shakeproof washers as shown on detail in figure 2.

Prepare two ground wires for Recorder Scanner BC–918–() and amplifier BC–908–() as follows: Cut two 8-inch lengths of Wire W–128. Strip and soldertin ½ inch of each end. Solder a terminal to one end of each length.

Secure Mounting FT-318-() in position using hardware provided, and apply shakeproof washers on detail in figure 2. Secure terminal of one of ground wires with a screw securing front of Mounting FT-318-() to floor of vehicle.

Secure Mounting FT-328-() in position using hard-ware provided as shown in figure 2. Apply shake-proof washers as shown on detail in figure. Secure terminal of one of ground wires to mounting with one of screws securing front of mounting to supporting plates.

Place Recorder Scanner BC-918-() in position and secure in place with snap slide fasteners provided. Attach ground wire to GROUND binding post on front panel of recorder scanner.

Place Amplifier BC-908-() in position and secure in place with snap slide fasteners provided. Attach ground wire to GROUND binding post on front panel of amplifier.

Use Cord CD-606-() to connect Amplifier BC-908-() to Recorder Scanner BC-918-(). Route cord as shown in figure 2, and secure in place with clamps provided.

Refer to figure 2. Connect Cord CD-608-() to Amplifier BC-908-() and route to vehicle terminal box. Secure in place with clamps provided. Install connector No. 61007 and Bondnut BL-50 through knockout hole in vehicle terminal box to secure Cord CD-608-().

Connect white lead of cord to positive terminal and black lead to negative terminal inside vehicle terminal box.

Insert plugs on cords into headset and microphone jacks on panel of Amplifier BC-908-(), and into headset and microphone jacks on Radio Set SCR-506-(). Coil excess cordage and secure in place as shown in figure 2.

Cover BG-118-() (Item 11, fig. 2). Cover BG-128-() (Item 12, fig. 2). Writing Stand MC-308-() (Item 26, fig. 2). Chest CH-108-().

c. Facsimile Equipment RC-58-() in COMBINATION WITH RADIO SETS SCR-506-() AND SCR-510-(). Components of Facsimile Equipment RC-58-() in above combination

Method and materials

Place over Recorder Scanner BC-918-().

Place over Amplifier BC-908-().

Use when writing message on tape. When not in use, stow in convenient place in vehicle.

Stow all spare parts in Chest CH-108-() and stow chest in convenient place in vehicle.

> should be installed in Truck, 3/4-ton, 4x4, Command Reconnaissance as shown in figure 3, and as directed below:

and 20, fig. 3), to left side of vehicle above rear seat.

Wire W-128 and two terminals (Items 17 and 18, fig. 3).

Mounting FT-318-() (Item 7, fig. 3), on floor beneath Radio Set SCR-506-

Mounting FT-328-() (Item 8, fig. 3), on shelf on left side of vehicle above rear seat.

Recorder Scanner BC-918-() (Item 2, fig. 3), on Mounting FT-328-().

Amplifier BC-908-() (Item 1, fig. 3), on Mounting FT-318-().

Cord CD-606-() (Item 11, fig. 3).

Cord CD-608-() (Item 12, fig. 3).

One shelf and two brackets (Items 19 Secure brackets in position with hardware provided as shown in figure 3. Use shakeproof washers as shown on detail of figure.

> Prepare two ground wires for Recorder Scanner BC-918-() and Amplifier BC-908-() as follows: Cut two 8-inch lengths of Wire W-128. Strip and soldertin ½ inch of each end. Solder a terminal to one end of each length.

> Secure Mounting FT-318-() in position with hardware provided and apply shakeproof washers as shown on detail in figure 3. Secure terminal of one of ground wires to mounting with a screw securing front of mounting to vehicle floor.

> Secure Mounting FT-328-() in position with hardware provided and apply shakeproof washers as shown on detail in figure 3. Secure terminal of one of ground wires to mounting with a screw securing front of mounting to shelf.

> Locate Recorder Scanner BC-918-() and secure in place with snap slide fasteners provided. Connect ground wire to GROUND binding post on front panel of recorder scanner.

> Locate Amplifier BC-908-() and secure in place with snap slide fasteners provided. Connect ground wire to GROUND binding post on front panel of amplifier.

> Use Cord CD-606-() to connect Amplifier BC-908-() to Recorder Scanner BC-918-(). Route cord as shown in figure 3 and secure in place with clamps provided.

> Refer to figure 3. Connect Cord CD-608-() to Amplifier BC-908-(), route to vehicle terminal box, and secure in place with clamps provided. Install connector No. 61007 and Bondnut BL-50 through knockout hole in vehicle terminal box to secure Cord CD-608-(). Connect white lead of Cord CD-608-() to positive terminal and black lead to negative terminal inside vehicle terminal box.

9

Part and location

Cords CD-1018-() and CD-1019-() (Items 13 and 14, fig. 3).

Cover BG-118-() (Item 9, fig. 3).

Cover BG-128-() (Item 10, fig. 3).

Writing Stand MC-308-() (Item 32, fig. 3).

Chest CH-108-().

Method and materials

Insert plugs on one end of cords into either of microphone and headset jacks on front of Amplifier BC-908-(). Insert plugs on other end of cords into microphone and headset jacks on Radio Set SCR-506-(). Coil excess cordage and secure in place as shown in figure 3.

Place over Recorder Scanner BC-918-().

Place over Amplifier BC-908-().

Use when writing message on tape. When not in use, stow in convenient place in vehicle.

Stow all spare parts in Chest CH-108-() and stow chest in convenient place in vehicle.

SECTION IV

RADIO SET SCR-193-Q

10. Required Parts
Items necessary for installation of Radio Set

SCR-193-Q in Truck, ¾-ton, 4x4, Command Reconnaissance are listed below:

Quantity	Stock No.	Item
1	2A224A	Antenna AN-24-A, auxiliary.
4		Bracket, spacer.
1		Bracket, reinforcing.
2	2Z1848	Case CS-48, for transmitter tuning units.
2 2*	4B417-4	Chest Set TD-4.
1	2Z1577-153	Chest CH-153-().
2 ea	2Z2651-421	Clamps MC-421 through MC-424.
	through	
	2Z2651-424	
. 1	3E2189A	Cord CO-189-(), connecting Dynamotor Unit BD-77-() to terminal box.
1	3E1320	Cord CD-320-(), connecting Dynamotor Unit BD-77-() to Radio Transmit
-	OLITOLO	BC-191-().
1	3E1267	Cord CD-267, for Loudspeaker LS-3.
1	3E1410	Cord CD-410-(), connecting Radio Transmitter BC-191-() to terminal box.
1		Cord CD-346-(), connecting Radio Transmitter BC-191-() to Dynamotor U
1	3E1346	
	0701411	BD-77-(). $Cond CD (11) () = Annexting Dadin Descine DC (11) () + Annexting D (11) ()$
1	3E1411	Cord CD-411-(), connecting Radio Receiver BC-312-() to terminal box.
1	2Z3367	Cover BG-67-(), for mast base.
1	2Z3375	Cover BG-75, for Radio Receiver BC-312-().
1	2Z3378	Cover BG-78, for Radio Transmitter BC-191-().
1	3H1359	Cover BG-79, for Dynamotor Unit BD-77-().
1	3H1777.2	Dynamotor Unit BD-77-(), including Mounting FT-107.
1	6L50-193V15	Hardware bag.
2*	2B800-16	Headset H-16/U.
2	2A224/1	Instructions for installation of Antenna A-24-A, auxiliary.
3	3G586	Insulator IN-86, two for auxiliary antenna, one for tying down mast sections.
2	3G601	Insulator IN-101.
4	3G604	Insulator IN-104.
2	3G621	Insulator IN-121.
1	3Z3445	Key J-45.
1	2Z6303.1	Loudspeaker LS-3.
1	6D13073	TM 11-273, for Radio Set SCR-193-().
1	2A2087	Mast Base MP-37 or MP-57.
	2A2088-57	
2 ea	2A2349	Mast Sections MS-49 through MS-52.
	through	
	2A2352	
3	2A2353	Mast Section MS-53.
3 2*	2B1645	Microphone T-45.
1	2Z6691	Mounting FT-151, for Radio Transmitter BC-191-().
1	2Z6712	Mounting FT-172, snubber for Radio Transmitter BC-191-().
1	2Z6718	Mounting FT-172, shubber for Radio Receiver BC-1312-().
1	2C4312	Radio Receiver BC 212 () including Mounting ET 162 and Demonstra D
-	203012	Radio Receiver BC-312-(), including Mounting FT-162 and Dynamotor D
1	2C6191.8	21-(). Padio Tropositto DC 101 ()
1		Radio Transmitter BC-191-().
50 ft	2Z8056	Roll BG-56-(), for mast sections.
50 ft	6Z7926	Rope RP-5, for auxiliary antenna and tying down mast sections.
1	2Z8793A	Socket Cap M-163-A.
1	2Z9313	Terminal Block TM-183, for car terminal box.
1	2C8005.1	Transmitter Tuning Unit TU-5.
1	2C8006.1	Transmitter Tuning Unit TU-6.
1 1 20 ft	2C8006.1 2C8007.1 1B128	Transmitter Tuning Unit TU-6. Transmitter Tuning Unit TU-7. Wire W-128.

^{*}When Headset H-16/U, Microphone T-45, and Chest Set TD-4 are not available, issue Headset HS-30-(), Microphone T-17, and Cords CD-307-A and CD-604.

11. Assembly and Installation

a. Radio Set SCR-193-Q. Components of Radio Set SCR-193-Q should be installed in

Truck, ¾-ton, 4x4, Command Reconnaissance as shown in figure 4, and as directed below:

Part and location

Mountings FT-172 and FT-178 (Items 15 and 20, fig. 4), on inner side of rear wall of Chest CH-153-(), near top.

Four Insulators IN-104 (Item 23, fig. 4), on top of Chest CH-153-().

Two Insulators IN-121 and Insulator IN-101 (Items 22 and 21, fig. 4).

Chest CH-153-(), bracket, and spacers (Items 11, 16, 17, 18, and 19, fig. 4).

Mounting FT-107 (Item 14, fig. 4), on floor of Chest CH-153-(), left side.

Mounting FT-151 (Item 12, fig. 4), on floor of Chest CH-153-(), right side.

Mounting FT-162 (Item 13, fig. 4), on shelf in Chest CH-153-().

Dynamotor Unit BD-77-() and Cover BG-79 (Items 3 and 35, fig. 4), on Mounting FT-107.

Radio Receiver BC-312-(), Cover BG-75 (Items 2 and 34, fig. 4), and small bracket (part of Mounting FT-178), on Mounting FT-162.

Radio Transmitter BC-191-(), Cover BG-78 (Items 1 and 33, fig. 4), and small bracket (part of Mounting FT-172), on Mounting FT-151.

Terminal Block TM-183 (Item 51, fig. 4), in car terminal box.

Mast Base MP-37 or MP-57 (Item 4, fig. 4), on mast base bracket, and Cover BG-67-() (Item 36, fig. 4).

Mast Sections MS-49 through MS-53, and Clamps MC-421 through MC-424 (Items 5 through 9, fig. 4).

Method and materials

Install in place with hardware provided.

Install as shown in figure 4.

Install through hole in top of Chest CH-153-() and through hole beside mast base bracket.

Fasten bracket to top of front seat frame. Fasten chest to floor directly behind front seat with hardware provided. Use spacers between chest and floor of vehicle as shown. Fasten top of cabinet to bracket.

Secure in place with hardware provided.

Secure in place with hardware provided.

Secure in place with hardware provided.

Place dynamotor unit on mounting and secure with snap slide fasteners. Place Cover BG-79.

Remove receiver from its cabinet and drill right end of cabinet as shown in figure 20. Refer to figure 17 and fasten small bracket to end of cabinet with stopnuts on outside. Replace receiver in cabinet and place on Mounting FT-162. Place Cover BG-75 over receiver and cut a slot in top to admit small bracket. Complete assembly of Mounting FT-178.

Remove tuning unit from transmitter. Refer to figure 17 and fasten small bracket and reinforcing plate to top of cabinet with stopnuts outside. Place Cover BG-78 over transmitter and cut a slot in top to admit small bracket. Complete assembly of Mounting FT-172.

Fasten on brackets with screws and lockwashers provided.

Relocate mast base bracket in vertical position shown in figure 12. Assemble on mast base bracket as shown in figure 15. Place cover over mast base when mast sections are not installed.

Install mast sections on mast base, placing clamps over joints to prevent loss of sections. When clamps are not available, use friction tape. Stow mast sections and clamps in Roll BG-56-() when not in use.

Wire W-128 (Items 31 and 32, fig. 4).

Loudspeaker LS-3.

Cord CO-189-() (Item 28, fig. 4).

Cord CD-320-() (Item 26, fig. 4).

Cord CD-267.

Cord CD-410-() (Item 30, fig. 4).

Cord CD-346-() (Item 27, fig. 4).

Cord CD-411-() (Item 29, fig. 4).

Method and materials

Cut an 84-inch length of Wire W-128, and route from mast base through insulators to antenna terminal on Radio Transmitter BC-191-(). Cut a 56-inch length and connect between radio transmitter and Radio Receiver BC-312-(). Fasten with clamps No. 2 as shown in figure 4.

Drill Chest CH-153-() and mount loudspeaker as shown in figure 24, with existing hardware.

Connect between Dynamotor Unit BD-77-() and terminal box.

Connect between Dynamotor Unit BD-77 and Radio Transmitter BC-191-().

Connect between Loudspeaker LS-3 and Radio Receiver BC-312-().

Connect between Radio Transmitter BC-191-() and terminal box.

Connect between Radio Transmitter BC-191-() and Dynamotor Unit BD-77-().

Connect between Radio Receiver BC-312-() and terminal box.

b. Radio Set SCR-193-Q in Combination With Radio Set SCR-510-(). Components of Radio Set SCR-193-Q should be installed in combination with Radio Set SCR-510-() in Truck, 3/4-ton, 4x4, Command Reconnaissance as shown in figure 11. In this installation Mast

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Base Bracket MP-50 (with Mast Base MP-48 or MP-48-A) is relocated on right side of vehicle. Otherwise, this installation is identical with the installation of Radio Set SCR-193-Q alone.

SECTION V

RADIO SET SCR-245-T

12. Required Parts
Items necessary for installation of Radio Set

SCR-245-T in Truck, ¾-ton, 4x4, Command Reconnaissance, are listed below:

Quantity	Stock No.	Item
1	2Z1203-344	Bracket FT-344, for Receiver BC-312-().
1	2Z1203-334	Bracket FT-334, for Transmitter BC-223-().
1	2Z1856	Case CS-56, for transmitter tuning unit.
21 2	4B417-4	Chest Set TD-4.
2	2B2651-421 through 2B2651-424	Clamps MC-421 through MC-424, for mast sections.
1	3E1356	Cord CD-356, 48 in. long, connecting transmitter to Dynamotor Unit PE-55.
1	3E1330 3E1442	Cord CD-442, 54 in. long, connecting receiver to transmitter.
+	3E2188A	Cord CO-188-A, 24 in. long, connecting dynamotor unit to terminal box.
1	2Z3367	Cover BG-67-(), for mast base.
+	2Z3375	Cover BG-75, for radio receiver.
1	3H1357	Cover BG-75, for dynamotor unit.
1	2Z3386	Cover BG-86, for radio transmitter.
+		Dynamotor Unit PE-55, including Dynamotor DM-19-(), attached spare parts
1	3H1855	
1	271612	and Mounting FT-185.
1	2Z4643	Frame FM-43.
01	6L50-245GV15	Hardware bag. Headset H-16/U.
21	2B800-16	Insulator IN-101.
2	3G601 3Z3445	
1 12		Key J-45. Mast Base MP-37 or MP-57.
1^2	2A2087	Mast Dase MIT-51 of MIT-51.
0	2A2088-57	Most Sections MC 10 through MC 52
2	2A2349 through 2A2353	Mast Sections MS-49 through MS-53.
21	2B1645	Microphone T-45.
1	2Z6712	Mounting FT-172, for snubber for radio transmitter.
1	2Z6718	Mounting FT-178, for snubber for radio receiver.
1	2C4312	Radio Receiver BC-312-(), including Dynamotor DM-21 and Mounting FT-162
1	2C6223	Radio Transmitter BC-223-(), including Mounting FT-173.
1	2Z8056	Roll BG-56-(), for mast sections.
1	2C8017	Transmitter Tuning Unit TU-17-().
1	2C8018	Transmitter Tuning Unit TU-18-().
5 ft	1B128	Wire W-128.

¹When Headset H-16/U, Microphone T-45, and Chest Set TD-4 are not available, issue Headset HS-30-(), Microphone T-17, and Cords CD-307-A and CD-604.

TD-4 2Mast Base MP-14 or MP-14-A may be substituted for Mast Base and MP-37 or MP-57.

13. Assembly and Installation Components of Radio Set SCR-245-T should

Part and location

Frame FM-43 and Brackets FT-334 and FT-344, behind front seat.

Mast base bracket.

Mast Base MP-37 or MP-57 and Insulator IN-101, on outer left side of vehicle.

he installed in Thurst 2/ ton Arra Common and

be installed in Truck, 3/4-ton, 4x4, Command Reconnaissance (fig. 5) as directed below:

Method and materials

Fasten Frame FM-43 to floor with hardware provided. Secure Brackets FT-334 and FT-344 on rear of Frame FM-43 as shown in figure 5; Mounting FT-334 to left and Mounting FT-344 to right.

Relocate to vertical position as shown in figure 12.

Assemble Mast Base MP-37 or MP-57 as shown in figure 15. Install mast base, as shown in figure 5, on mast base bracket provided on outer left side of vehicle. Install Insulator IN-101 through hole provided beside mast base.

Mounting FT-162, on right top of Frame FM-43.

Mounting FT-173, on left top of Frame FM-43.

Mounting FT-185, on right under side of Frame FM-43.

Radio Receiver BC-312-(), Mounting FT-178, and Cover BG-75, on Mounting ing FT-162.

Radio Transmitter BC-223-(), Mounting FT-172, and Cover BG-86, on Mounting FT-173.

Dynamotor Unit PE-55, on Mounting FT-185.

Cover BG-77.

Mast Sections MS-49 through MS-53 and Clamps MC-421 through MC-424.

Cover BG-67-().

Wire W-128.

Cords CD-356, CD-442, and CO-188-A.

Method and materials

Secure in position with hardware provided.

Secure in position with hardware provided.

Secure in position with hardware provided.

Remove receiver chassis from its cabinet and drill top of cabinet as shown in figure 16. Refer to figure 17 and fasten small bracket, Item 1, and reinforcing plate to top of cabinet with stopnuts on outside. Fasten remainder of mounting to Bracket FT-344 attached to Frame FM-43. Replace receiver in cabinet and place on Mounting FT-162. Place Cover BG-75 over receiver and cut a slot in top to admit small bracket. Complete assembly of Mounting FT-178.

Remove tuning unit from transmitter. Refer to figure 17 and fasten small bracket, Item 1, and reinforcing plate to top of cabinet with stopnuts on outside. Fasten remainder of mounting to Bracket FT-334 attached to Frame FM-43. Place transmitter on Mounting FT-173. Place Cover BG-86 over transmitter and cut a slot in top to admit small bracket. Complete assembly of Mounting FT-172.

Refer to figure 5. Locate dynamotor unit and lock in position with snap slide fasteners.

Place over Dynamotor Unit PE-55.

Install mast sections on mast base. Place clamps over joints to prevent loss of sections. When clamps are not available use friction tape. When removed, mast sections and clamps shall be carried in Roll BG-56-().

Place over mast base when mast sections are removed.

Cut a length of Wire W-128 and connect between ALT ANT. terminal on Radio Receiver BC-312-() and left hand REC terminal on Radio Transmitter BC-223-(). Cut another length of wire and connect one end to ANT terminal on transmitter. Route wire through Insulator IN-101 and connect other end to terminal on Mast Base MP-37 or MP-57.

Connect as shown in figure 5.

SECTION VI

RADIO SET SCR-506-()

14. Required Parts
Items necessary for installation of Radio Set

SCR-506-() in Truck, ¾-ton, 4x4, Command Reconnaissance, are listed below:

Quantity	Stock No.	Item
1	2Z299-471	Adapter Kit MC-471.
1	2A275-27	Antenna A-27, phantom.
1	2A224	Antenna AN-24-A, auxiliary.
1	2Z1250.82	Bracket (fig. 21) for Antenna A-27, phantom.
1	2Z2599-263	Chest CH-263.
21	4B417-4	Chest Set TD-4.
2	2B2651-421	Clamps MC-421 through MC-424.
	through	
	2B2651-424	
2	6Z3147	Connector No. 61007 and Bondnut BL-50.
1	3E1314	Cord CD-314, for Loudspeaker LS-3.
1	2Z3367	Cover BG-67-(), for Mast Base MP-37.
1	2Z3400-103	Cover BG-103, for radio receiver and transmitter.
1	3H1640	Dynamotor DM-40-(), 12 volts, for Radio Receiver BC-652-().
1	3H1642	Dynamotor DM-42-(), 12 volts, for Radio Transmitter BC-653-().
1	6L50-506V15	Hardware bag.
21	2B800-16	Headset $H-16/U$.
3	3G586	Insulator IN-86.
5	3G604	Insulator IN-104.
2	3G601	Insulator IN-101.
2	3Z3445	Key J-45.
1	2Z6303.1	Loudspeaker LS-3 and bracket.
1	6D13136	TM 11-630, for Radio Set SCR-506-().
1^2	2A2087	Mast Base MP-37 or MP-57.
	2A2088-57	Tr. 1 C. 1: TrC 10 th word MC 59
2	2A2349	Mast Sections M.S-49 through MS-53.
	through	
	2A2353	
21	2B1645	Microphone T-45.
1	2Z6721-285	Mounting FT-285. Mounting FT-253-(), including two Cords CO-280-(), attached, and spare fuse
1	2Z6721-253	and hardware in attached cloth har
	OCH ITO	and hardware in attached cloth bag. Radio Receiver BC-652-(), with necessary tubes and Crystal Unit DC-15 in
1	2C4452	
	aggreen are	stalled. Radio Transmitter BC-653-(), including one set of tubes installed.
1	2C6530-653	
1	2Z8056	Roll BG-56-(), for mast sections.
10 ft	1B146	Wire W-146.

¹When Headset H-16/U, Microphone T-45, and Chest Set TD-4 are not available, issue Headset HS-30-(), Microphone T-17, and Cords CD-307-A and CD-604.

²Mast Base MP-14 may be substituted for Mast Base MP-37 or MP-57.

15. Assembly and Installation

Components of Radio Set SCR-506-() should be installed in Truck, 3/4-ton, 4x4, Command

Reconnaissance as shown in figure 6, and as directed below:

Part and location

Mounting FT-285, adapter plate and reinforcing bar (Items 5, 8, and 7, fig. 6), on floor of vehicle behind front seat.

Method and materials

Fasten adapter plate (part of Adapter Kit MC-471) to top of Mounting FT-285 with bolts and nuts provided with mounting. Enlarge eight holes in legs of mounting with an 11/32-inch drill and secure mounting to floor with hardware provided. Secure reinforc-

Method and materials

ing bar (part of Adapter Kit MC-471) underneath floor for left leg of mounting with hardware provided in Adapter Kit MC-471.

Mounting FT-253-() (Item 6, fig. 6), on adapter plate fastened to Mounting FT-285.

Fasten to adapter plate with hardware provided.

Mast base bracket (Item 16, fig. 6), on left side of vehicle.

Relocate mast base bracket as shown in figure 12.

Mast Base MP-37 or MP-57 (Item 9, fig. 6), on mast base bracket.

Assemble as shown in figure 15, and install in mast base bracket.

Dynamotor DM-40-() (Item 4, fig. 6), on top of Radio Receiver BC-652-() chassis.

If Dynamotor DM-40-() is supplied uninstalled, proceed as follows: Remove receiver chassis from case and secure dynamotor to chassis with snap slide fasteners. All connections to dynamotor are made by flexible lead terminating in Plug P-250. Installation of proper dynamotor automatically adjusts receiver circuits for correct operating voltage. Nameplate on front panel of receiver should be turned to read 12-VOLT OPERATION.

Dynamotor DM-42-() (Item 3, fig. 6), in dynamotor compartment, lower right end of Radio Transmitter BC-653-().

If Dynamotor DM-42-() is supplied uninstalled, slide it into dynamotor compartment and secure front panel of dynamotor chassis with five screws provided. Remove patch cover plate located on top of radio transmitter, right end, and connect six connector links for 12-VOLT OPERATION as indicated by arrow on terminal link terminal strip. Nameplate on dynamotor panel should read 12-VOLT OPERATION.

Radio Receiver BC-652-() (Item 2, fig. 6), on left end of Mounting FT-253-().

Secure with thumbscrew locking devices.

Radio Transmitter BC-653-() (Item 1, fig. 6) on Mounting FT-253-().

Secure with thumbscrew locking devices.

Insulators IN-101 and IN-104 (Items 19 and 20, fig. 6).

Install as shown in figure 6.

Two connectors No. 61007 and two Bondnuts BL-50 (Items 21 and 22, fig. 6).

Install through knock-out holes in terminal box for two power Cords CO-280.

Loudspeaker LS-3, bracket, and Cord CD-314.

Install bracket under left front corner of Mounting FT-253-() and fasten loudspeaker on bracket. Connect Cord CD-314 to designated jack on Radio Receiver BC-312-().

Mast Sections MS-49 through MS-53 (Items 10, 11, 12, 13, and 14, fig. 6), on Mast Base MP-37 or MP-57.

Cover BG-67-() (Item 24, fig. 6).

Antenna A-27, phantom, and bracket (fig. 21).

Wire W-146 (Item 17, fig. 6).

Cord CO-280.

Chest CH-263.

Note. When Radio Sets SCR-506-() and SCR-510-() are installed in combination, one Mast Base Bracket MP-50; four screws, 5/16"-24 x 1-1/4"; four lockwash-

Method and materials

Screw mast sections together and install Clamps MC-421 through MC-424 over joints to prevent loss of sections. If clamps are not available use friction tape. When removed, stow mast sections and clamps in Roll BG-56-().

Place over Mast Base MP-37 or MP-57 when mast sections are removed.

Drill right end of mounting plate (Item 8, fig. 6) (part of Adapter Kit MC-471) as shown in figure 19 and mount bracket (fig. 21) with hardware provided. If this installation is made with radio set already installed, remove radio set and Mounting FT-253. When installation of bracket is completed, reinstall radio set and mounting in original manner.

Cut 5-foot length of Wire W-146, route through insulators, and connect between antenna terminal on Radio Transmitter BC-653-() and Mast Base MP-37 or MP-57.

Connect between vehicle terminal box and power terminal on Mounting FT-253-().

Stow in any convenient place in vehicle.

ers, 5/16" steel; four nuts, hex. head, 5/16"-24 steel; and one Reinforcing Plate FT-429 must be added. Install as shown in figure 7.

SECTION VII

RADIO SET SCR-508-(), SCR-528-(), SCR-608-(), OR SCR-628-()

16. Required Parts

Items necessary for installation of Radio Set SCR-508-(), SCR-528-(), SCR-608-(), or

SCR-628-() in Truck, 3/4-ton, 4x4, Command Reconnaissance, are listed below:

Qua	ntity		
Radio Set SCR-508-() or SCR-528-()	Radio Set SCR-608-() or SCR-628-()	Stock No.	Item
1	1	2Z299-471 2A262	Adapter Kit MC-471. Antenna A-62, phantom.
Ō	ī	2Z1140	Box BX-40, for 40 Crystal Holders FT-241-().
1	1	2Z1250.56	Bracket, for Antenna A-62, phantom.
1	0	2Z2599-264	Chest CH-264.
21	21	4B417-4	Chest Set TD-4.
2	2	2Z2651-423	Clamp MC-423, for mast sections.
2	2	2Z2651-424	Clamp MC-424, for mast sections.
2	2	6Z3417	Connector No. 61007 and Bondnut BL-50, for power cable connection.
1	1	- 2Z3396	Cover BG-96, for radio receivers and transmitter.
1	1	2Z3400-108	Cover BG-108, for Mast Base MP-48 or MP-48-A.
22	2^2	3H1634	Dynamotor DM-34-(), 12-volt, including attached spare parts
1	1	3H1635	Dynamotor DM-35-(), 12-volt, including attached spare parts
21	21	2B800-16	Headset H-16/U.
2	2	3G601	Insulator IN-101.
2	2	3G604	Insulator IN-104.
1	0	6D13113	TM 11-600, for Radio Set SCR-508-() or SCR-528-().
0	1	6D13102	TM 11-620, for Radio Set SCR-608-() or SCR-628-().
1	1	2A2088-48	Mast Base MP-48 or MP-48-A.
2	2	2A2351	Mast Section MS-51.
2	2	2A2352	Mast Section MS-52.
2	2	2A2353	Mast Section MS-53.
21	21	2B1645	Microphone T-45.
1	1	2Z6721-237	Mounting FT-237-(), including Cord CO-278 to car termina box and necessary mounting bolts, locknuts, etc.
1	1	2Z6721-285	Mounting FT-285.
22	0	2C4403	Radio Receiver BC-603-().
0	22	2C4460-683	Radio Receiver BC-683-(), including one set of tubes in stalled.
1	0	2C6494	Radio Transmitter BC-604-().
0	1	2C6530-684	Radio Transmitter BC-684-(), including one set of tubes in stalled and necessary crystals.
1	1	2Z8056	Roll BG-56-(), for antenna mast sections.
7 ft	7 ft	1B128	Wire W-128.

¹When Headset H-16/U, Microphone T-45, and Chest Set TD-4 are not available, issue Headset HS-30-(), Microphone T-17, and Cords CD-307-A, CD-604, and CD-605.

20nly one Radio Receiver BC-603-() or BC-683-() and Dynamotor DM-34-() are required for Radio Set SCR-528-() or SCR-628-().

17. Assembly and Installation Components of Radio Set SCR-508-(), SCR-528-(), SCR-608-(), or SCR-628-() should

be installed in Truck, \(\frac{3}{4}\)-ton, 4x4, Command Reconnaissance as shown in figure 8, and as directed below:

Part and location

Mounting FT-285, adapter plate, and reinforcing bar (Items 18, 19, and 20, fig. 8), on floor of vehicle behind front seat.

Method and materials

Fasten adapter plate (part of Adapter Kit MC-471) to top of mounting with bolts and nuts provided with mounting. Enlarge eight holes in legs of mounting with an 11/32-inch drill and secure mounting to

Mounting FT-237-() and Cord CO-278 (Items 7 and 14, fig. 8), on adapter plate fastened to Mounting FT-285.

Mast base bracket (Item 17, fig. 8), on left side of vehicle.

Mast Base MP-48 or MP-48-A (Item 8, fig. 8), on mast base bracket.

Method and materials

floor with hardware provided. Use reinforcing bar (part of Adapter Kit MC-471) underneath floor for left leg of mounting, securing with hardware provided with Adapter Kit MC-471.

Fasten to adapter plate with nuts and bolts provided with Mounting FT-237-(). See figure 9 for routing of Cord CO-278.

Relocate to vertical position as shown in figure 12.

Refer to figure 18 for assembly instructions for Mast Base MP-48, and proceed as follows: Remove setscrews, Items 8 and 9, and pull internal lead-in assembly, Item 7, from bottom of mast base. Strip 1/2 inch of insulation from one end of Wire W-128 and solder tip, Item 6B, to it. Insert Wire W-128 inside mast base making certain that tip is inserted as far as possible in slot at top of mast base. This may be viewed through holes for setscrews, Items 8 and 9. Replace setscrews and tighten them firmly. Mount mast base on mast base bracket, replacing washers and nuts in order removed. Next, slip insulator, Item 6E, rubber gasket, Item 6D, and insulator, Item 6C over Wire W-128 and install inside hollow stem of mast base. Follow up with gasket, Item 17, and tighten above items firmly in place with retaining collar, Item 18. Be sure to provide enough slack wire inside mast base to allow for flexing of spring. Assembly of Mast Base MP-48-A (fig. 18) is similar. Mast Base MP-48 and MP-48-A will be made waterproof as follows: Remove antenna lead by removing knurled collar, Item 18, on Mast Base MP-48 and loosening setscrews, Items 8 and 9. Remove two nuts holding washer, Item 2, and remove washer. Tap two holes existing in opposite sides of the inner spring retainer (stem), Item 1, using a No. 8-32 tap. Place a small quantity of Permatex No. 1 or other waterproof paint or cement in each hole, and insert two No. 8-32 setscrews. File a flat surface at any convenient place along the lip of the circumference of mast base to permit proper starting of drill. Center punch and drill at a right angle to filed surface, Item 19, through inner spring retainer to permit drainage of water around antenna lead, using a No. 12 (0.1875 inch) or 3/16-inch drill. Replace antenna lead and tighten two setscrews, Items 8 and 9. Liberally coat threads and gasket, Item 20, with waterpump grease

Method and materials

and place gasket between under side of mast base bracket and washer, Item 2. Securely tighten nut holding mast base to bracket and securely tighten collar, Item 18, which will seal inner lead of mast base by compressing rubber gasket around it. Remove antenna lead from Mast Base MP-48-A by loosening setscrew, Item 9, and removing bushing, Item 7. Remove nut, Item 4, lockwasher, Item 8, and washer, Item 2. Liberally coat gasket and threads with waterproof grease as shown for Mast Base MP-48. Replace washer, lockwasher, and hex. nut and tighten setscrew, Item 9, and bushing, Item 7.

Dynamotor DM-34-() (Item 6, fig. 8), on chassis of Radio Recevier BC-603-() or BC-683-().

Remove receiver chassis from cabinet and fasten dynamotor in place with four screws provided.

Radio Transmitter BC-604-(), and Radio Receiver BC-603-().

Radio Transmitter BC-604-() and Radio Receiver BC-603-() must have modification for receiver disabling and additional modification for increased audio output. Units having receiver disabling modification are identified by the letter *M* stamped after nomenclature on name plate. For example BC-603-DM. Units modified for increased audio output will be identified by MWO number lettered on unit. (See MWO SIG 11-600-4 and MWO SIG 11-600-6.)

Dynamotor DM-35-() (Item 5, fig. 8), on chassis of Radio Transmitter BC-604-() or BC-684-().

Remove crystal case from transmitter cabinet by loosening two screw locks on front panel and pulling crystal case out. Loosen four screw locks holding top cover on transmitter and remove cover. Install dynamotor on left rear of transmitter chassis by means of four bolts in base.

Radio Transmitter BC-604-() or BC-684-() (Items 1 and 3, fig. 8), on Mounting FT-237-().

Mount in position as shown in figure 8 by means of thumbscrew locking devices.

Radio Receiver BC-603-() or BC-683-() (Items 2 and 4, fig. 8), on Mounting FT-237-().

Mount in position as shown in figure 8 by means of thumbscrew locking devices.

Cover BG-108 (Item 9, fig. 8).

Place over Mast Base MP-48 or MP-48-A when mast sections are removed.

Insulator IN-101 (Item 22, fig. 8), in hole through vehicle and mast base bracket.

Remove plug button in hole through vehicle and install Insulator IN-101 with porcelain flange on outside.

Insulator IN-104 (Item 21, fig. 8), on map compartment.

Install on map compartment fastened on back of front seat.

Mast Sections MS-51, MS-52, and MS-53 (Items 11, 12, and 13, fig. 8), on mast base bracket.

Connector No. 61007 and Bondnut BL-50 (Items 23 and 24, fig. 8), on terminal box.

Antenna A-62, phantom, and bracket. Wire W-128 (Item 15, fig. 8).

Chest CH-264.

Method and materials

Join mast sections, place Clamps MC-423 and MC-424 over joints to prevent loss of sections, and install on mast base. When clamps are not available, use friction tape. When removed from mast base, mast sections and clamps shall be carried in Roll BG-56-().

Install on terminal box to bush and secure Cord CO-278.

Install as shown in position 3 of figure 22.

Cut 6-foot length and route from mast base through Insulators IN-101 and IN-104 to ANT terminal on Mounting FT-237-().

When Radio Set SCR-508-() is installed, stow chest in any convenient place in the vehicle. When Radio Set SCR-528-() is installed, place chest between Radio Transmitter BC-604-() and Radio Receiver BC-603-() on Mounting FT-237-().

SECTION VIII

RADIO SET SCR-510-() OR SCR-610-()

18. Required Parts

Items necessary for installation of Radio Set SCR-510-() or SCR-610-() in Truck, 3/4-

ton, 4x4 Command Reconnaissance, are listed below:

Quan	ntity	Stock No.	Item
Radio Set SCR-510-()	Radio Set SCR-610-()	Diock 110.	
1	1	6Q338-150 or cQ249	Alignment Tool TL-150 or TL-207.
0	1	6Q349 3A27	Battery BA-27.
$\frac{2}{0}$		3A41 2Z1140	Battery BA-41. Box BX-40, for crystals.
2	2	2Z1250.27	Bracket.
21	11	4B417-4	Chest Set TD-4.
0	2	2Z2651-423	Clamp MC-423.
2	2	2Z2651-424 6Z3147	Clamp MC-424. Connector No. 61007 and Bondnut BL-50.
1	1 1	2Z3400-108	Cover BG-108.
i	1 1	2Z3400-153	Cover BG-153
80	120	2Z3543	Crystal Holder FT-243, with crystal.
1	1	6L50-510V15	Hardware bag. Headset $H-16/U$.
21	1 2	2B800-16 3G586	Insulator IN-86, for auxiliary antenna.
2 2	2	3G601	Insulator IN-101.
1	1	2A2088-48	Mast Base MP-48 or MP-48-A.
0	2	2A2351	Mast Section MS-51.
2	2	2A2352	Mast Section MS-52. Mast Section MS-53.
2	11	2A2353 2B1645	Microphone T-45.
1	1 1	2Z6721-250	Mounting FT-250-().
$\frac{1}{1^2}$	1^2	3H4496-120	Power Supply Unit PE-120-(), including fuse and set of tubes
			installed.
1	0	2C5360	Radio Receiver and Transmitter BC-620-(), including two crystals in Crystal Holder FT-243 and set of tubes installed.
0	1	2C5379	Radio Receiver and Transmitter BC-659-(), including two crystals in Crystal Holder FT-243 and set of tubes installed.
1	1	2Z8056	Roll BG-56-(), for mast sections.
1	0	6D13038	TM 11-605, for Radio Sets SCR-509-() and SCR-510-().
0	1	6D13037	TM 11-615, for Radio Sets SCR-609-() and SCR-610-().
2	2	3H6713	Vibrator VB-13. Wire W-29.
27 ft 5 ft	27 ft 7 ft	1B29 1B128	Wire W-128.

¹When Headset H-16/U, Microphone T-45, and Chest Set TD-4 are not available, issue Headset HS-30-(), Microphone T-17, and Cord CD-605.

²Until all supplies of Plate Supply Units PE-97-() for Radio Set

SCR-510-(), and Plate Supply Units PE-117-() for Radio Set SCR-610-() are exhausted, they shall be substituted for Power Unit PE-120-(). In this case Vibrator VB-13 is not required.

19. Assembly and Installation
a. RADIO SET SCR-510-() OR SCR-610-().
Components of Radio Set SCR-510-() or

Note. See b below for combination installation.

SCR-610-() should be installed in Truck, ¾-ton, 4x4, Command Reconnaissance as shown in figure 10, and as directed below:

Part and location

Two brackets (Item 9, fig. 10), on left side of vehicle behind front seat.

Method and materials

Bolt left bracket to floor and left rear wheel well. Bolt right bracket to floor and to map compartment. Use hardware provided.

Mounting FT-250-() (Item 5, fig. 10), on brackets (Item 9, fig. 10).

Power Supply Unit PE-120-() (Item 3 or 4, fig. 10), on Mounting FT-250-().

Radio Receiver and Transmitter BC-620-() or BC-659-() and Battery BA-41 (Item 1 or 2, fig. 10), on Power Supply Unit PE-120-().

Insulator IN-101 (Item 26, fig. 10).

Mast base bracket (Item 10, fig. 10), relocated as shown in figure 12.

Mast Base MP-48 or MP-48-A (Item 6, fig. 10), on mast base bracket.

Method and materials

Fasten in place with hardware provided. Clamps (Item 19, fig. 10) for power cord must be installed at same time.

Open lid of power supply unit and remove power pack cover. Consult diagram on cover and make sure that change-over plug is in 12-VOLT position. Set connector link in BC-620 position for Radio Set SCR-510-(), or BC-659 position for Radio Set SCR-610-(). Plug Vibrator VB-13 into its socket and replace power pack cover. Close lid of case and place power supply unit on Mounting FT-250-().

Remove ten screws around outer edge of front panel and pull receiver and transmitter chassis from case. Remove cover of battery compartment located on chassis near front panel. Place Battery BA-41 in box being careful to engage plug into socket of battery. Replace cover.

Note. While chassis is out of its case, see that all tubes are in their proper sockets and pushed down firmly. See that crystals for desired operating frequencies are in their proper sockets and retaining clip is in position to hold them securely. Do not interchange these crystals. Before replacing chassis in case, see that two toggle switches near left edge of chassis are in ON position. Place radio receiver and transmitter on power supply unit and secure with hook fasteners provided.

Install through hole in vehicle beside mast base bracket.

Install as shown in figure 10, and secure with hardware provided.

Assemble with external lead-in as shown in figure 10. Refer to figure 18 for external lead-in assembly. Install on mast base. Run Wire W-128 through hole in curtain as shown. When curtain is removed, run Wire W-128 through Insulator IN-101. Connect other end of Wire W-128 to antenna terminal on transmitter. Mast Base MP-48 and MP-48-A will be made waterproof as follows: For Mast Base MP-48, remove antenna lead by removing knurled collar, Item 18, and loosening setscrews, Items 8 and 9. Remove two nuts holding washer, Item 2, and remove washer. Tap two holes existing in opposite sides of the inner spring retainer (stem), Item 1, using a No. 8-32 tap. Place a small quantity of Permatex No. 1 or other waterproof paint or cement in each hole, and insert two No. 8-32 setscrews. File a flat surface at any convenient place along the lip of the circumference of mast base to permit proper starting of drill. Center punch and drill at a right

- Method and materials

angle to filed surface, Item 19, through inner spring retainer to permit drainage of water around antenna lead, using a No. 12 (0.1875 inch) or 3/16-inch drill. Replace antenna lead and tighten two setscrews, Items 8 and 9. Liberally coat threads and gasket, Item 20, with waterpump grease and place gasket between under side of mast base bracket and washer, Item 2. Securely tighten nut holding mast base to bracket and securely tighten collar, Item 18, which will seal inner lead of mast base by compressing rubber gasket around it. For Mast Base MP-48-A remove antenna lead by loosening setscrew, Item 9, and removing bushing, Item 7. Remove nut, Item 4, lockwasher, Item 3, and washer, Item 2. Liberally coat gasket and threads with waterproof grease as shown for Mast Base MP-48. Replace washer, lockwasher, and hex. nut and tighten setscrew, Item 9, and bushing, Item 7.

Mast Sections MS-52 and MS-53 and Clamp MC-424 (add Mast Section MS-51 and Clamp MC-423 for Radio Set SCR-610-()) (Items 11, 12, and 13, fig. 10), on mast base.

Cover BG-108 (Item 7, fig. 10).

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Cover BG-153 (Item 8, fig. 10).

Connector No. 61007 and Bondnut BL-50 (Items 16 and 17, fig. 10).

b. Radio Set SCR-510-() in Combination with Radio Set SCR-193-Q. Components of Radio Set SCR-510-(), in the above combina-

Note. When installing Radio Set SCR-510-() in combination with Radio Set SCR-193-Q, delete two

Mounting FT-250-() (Item 16, fig. 11), on Chest CH-153-().

Terminal Box TM-206 (Item 61, fig. 11), on Radio Receiver BC-620-().

Power Supply Unit PE-120-() (Item 5, fig. 11), on Mounting FT-250-().

Install on mast base, placing clamps over joints to prevent loss of sections. When clamps are not available, use friction tape. When removed from mast base, mast sections and clamps shall be carried in Roll BG-56-().

Place over mast base when sections are removed.

Place over Radio Receiver and Transmitter BC-620-() or BC-659-().

Use to bush power cord where it enters vehicle terminal box.

tion, should be installed in Truck, \(\frac{3}{4}\)-ton, 4x4, Command Reconnaissance as shown in figure 11, and as directed below:

brackets (Item 9, fig. 10) and add one Coaxial Cable CD-636 and Terminal Box TM-206.

Drill top of Chest CH-153-() for Mounting FT-250-(). Secure mounting on top of chest with hardware provided.

Secure terminal box to antenna post housing on radio receiver.

Place power unit on mounting and route power cord to vehicle terminal box as shown in figure 11. Use connector No. 61007 and Bondnut BL-50 to bush power cable where it enters vehicle terminal box.

Radio Receiver and Transmitter BC-620-() (Item 3, fig. 11), on Power Supply Unit PE-120-().

Mast Base MP-48 or MP-48-A (Item 7, fig. 11), on mast base bracket.

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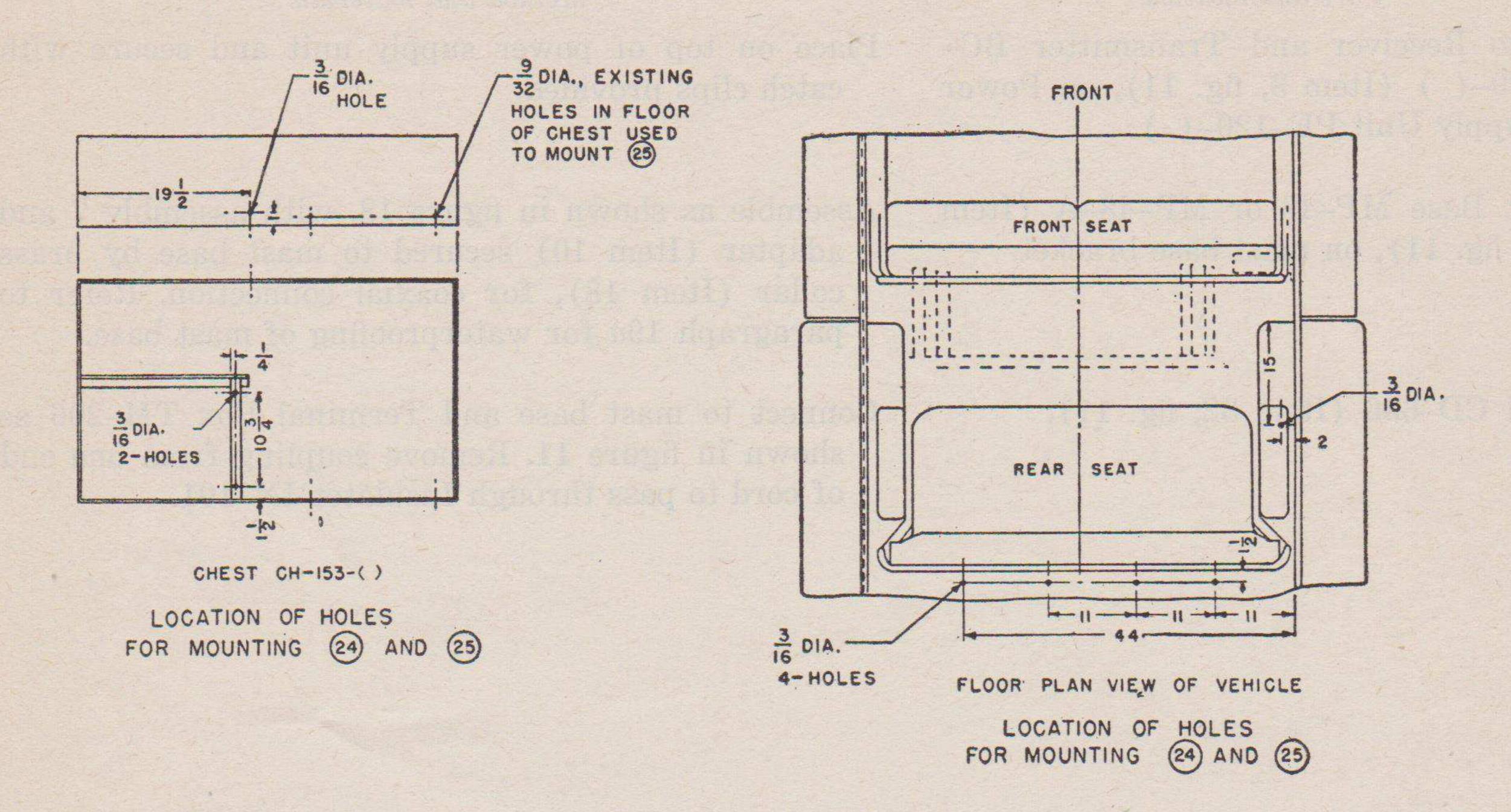
Cord CD-636 (Item 32, fig. 11).

Method and materials

Place on top of power supply unit and secure with catch clips provided.

Assemble as shown in figure 18, with assembly 7 and adapter (Item 10) secured to mast base by brass collar (Item 18), for coaxial connection. Refer to paragraph 19a for waterproofing of mast base.

Connect to mast base and Terminal Box TM-206 as shown in figure 11. Remove coupling from one end of cord to pass through Insulator IN-101.



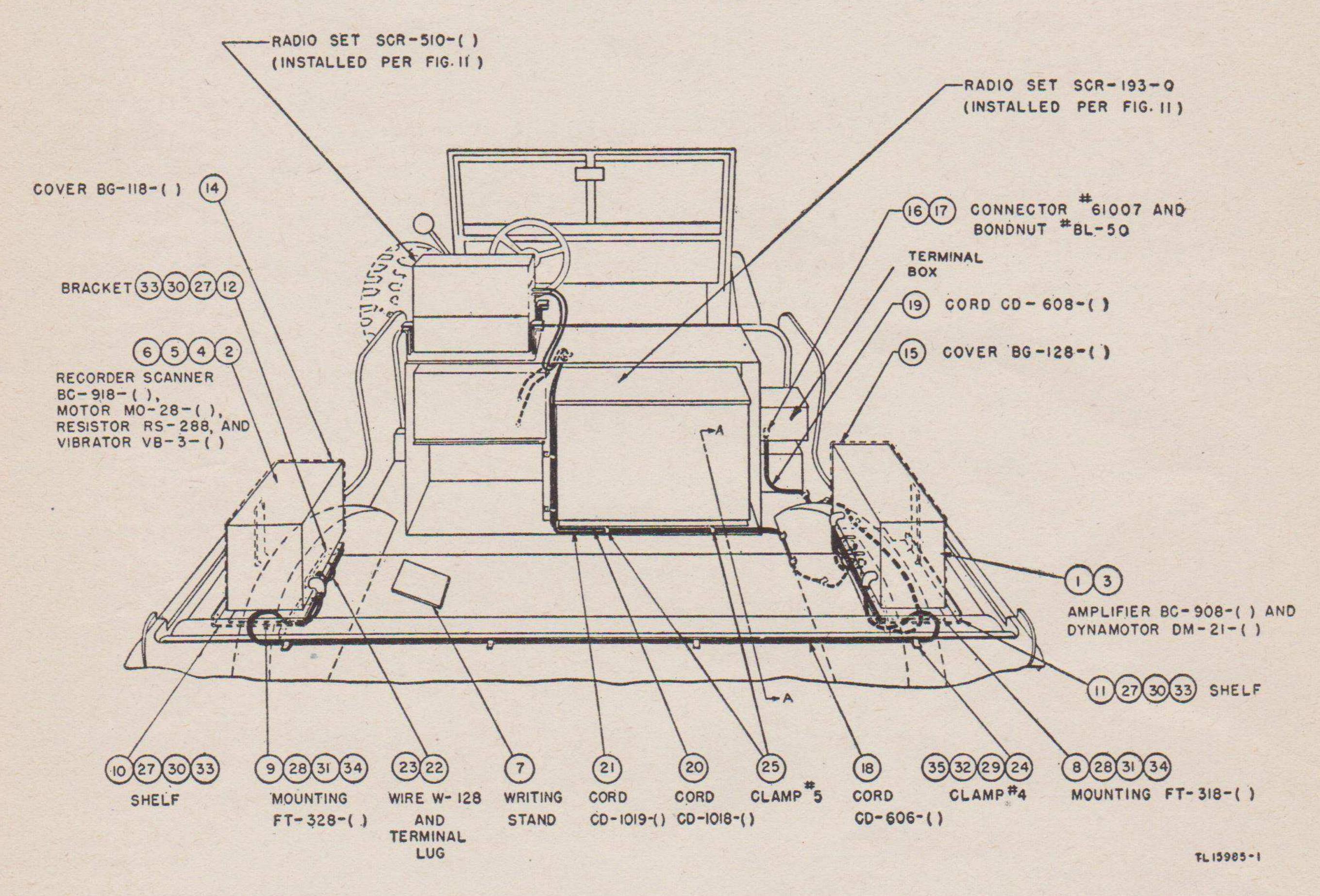
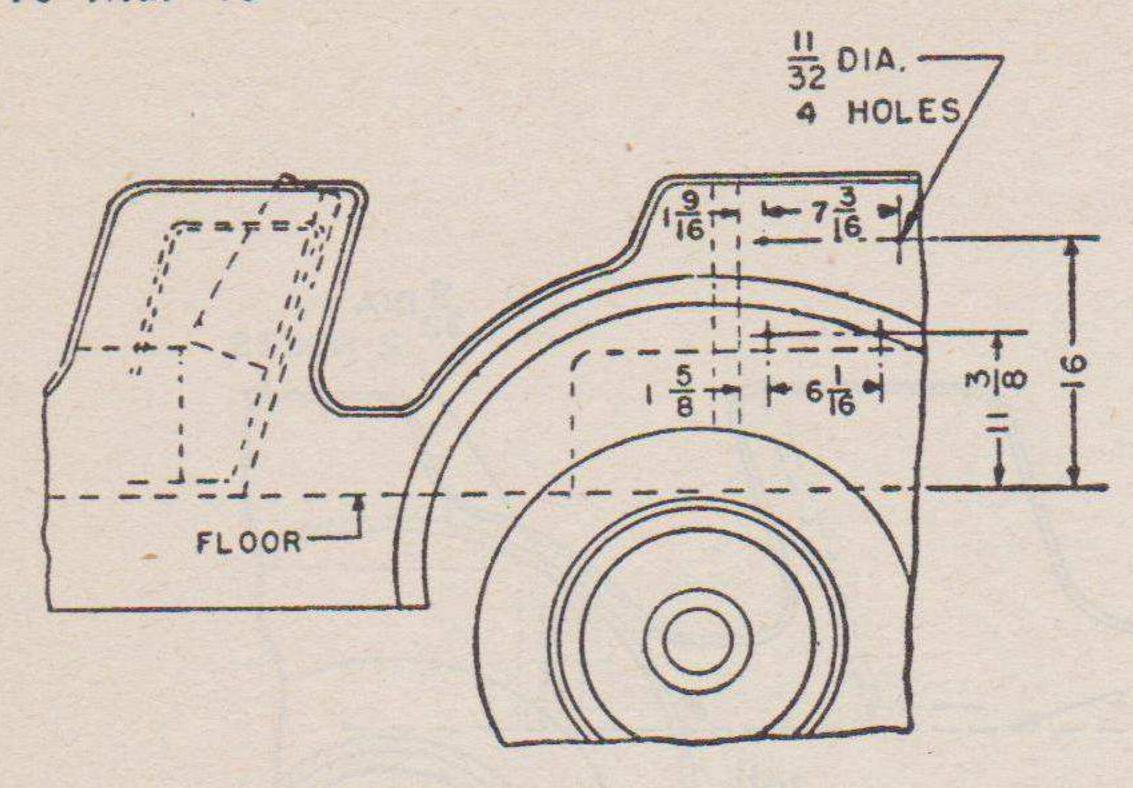
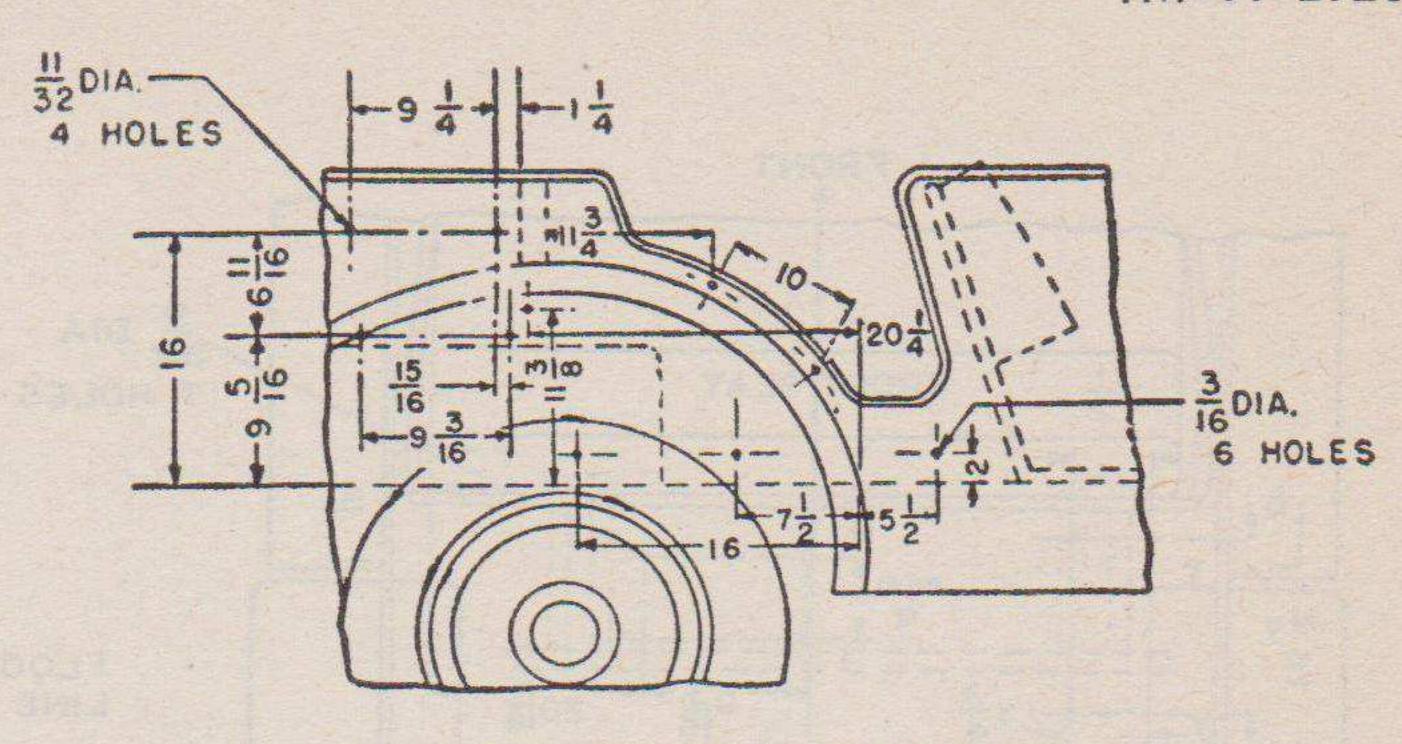


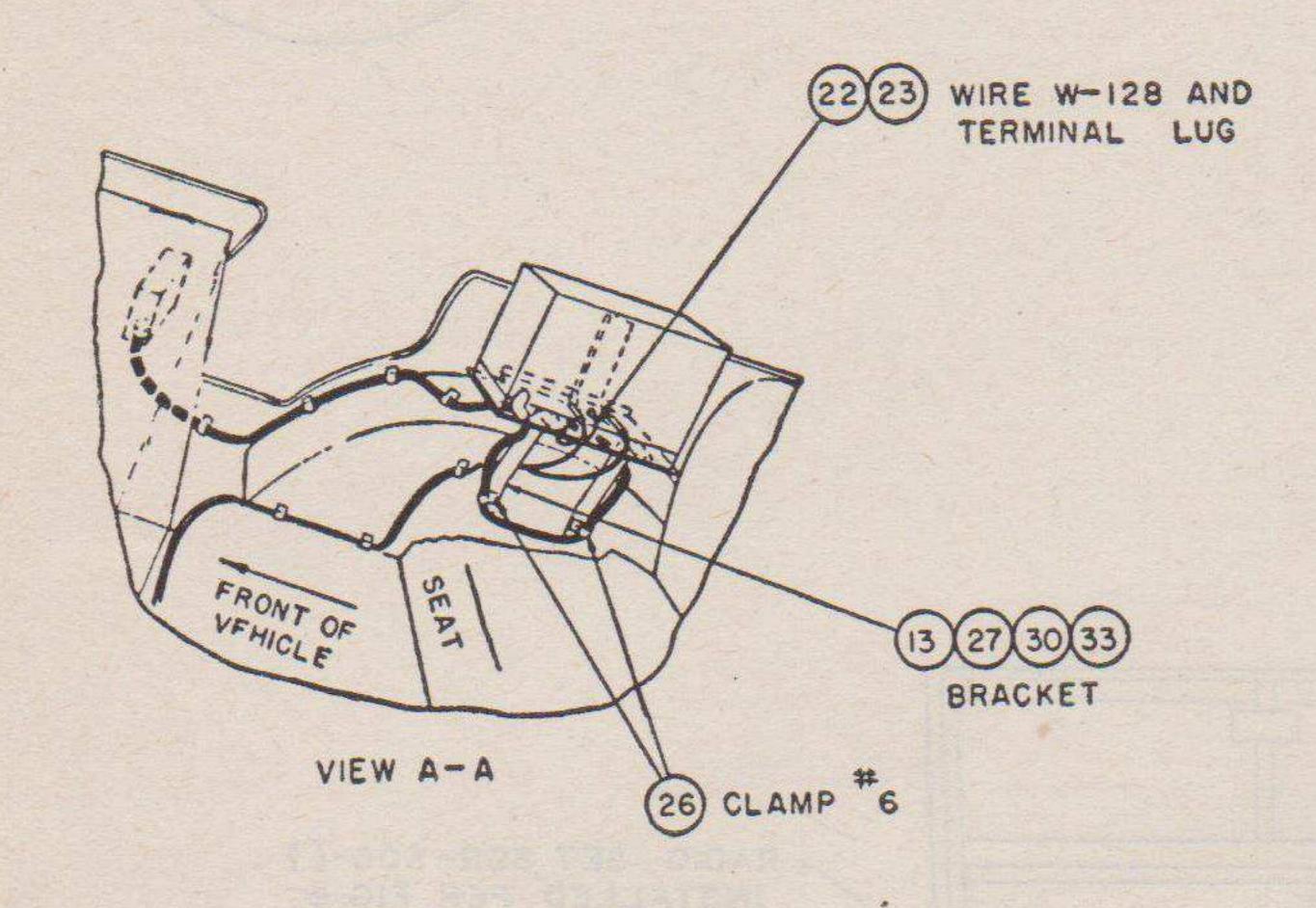
Figure 1. Installation of Facsimile Equipment RC-58-() with Radio Sets

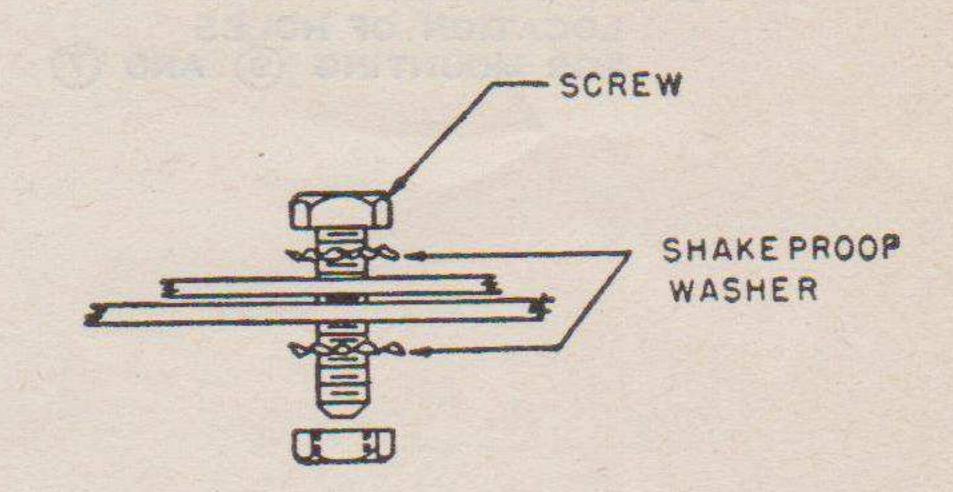


LEFT SIDE OF VEHICLE LOCATION OF HOLES FOR MOUNTING (10) AND (12)



RIGHT SIDE OF VEHICLE LOCATION OF HOLES FOR MOUNTING (1), (13), (24) AND (26)

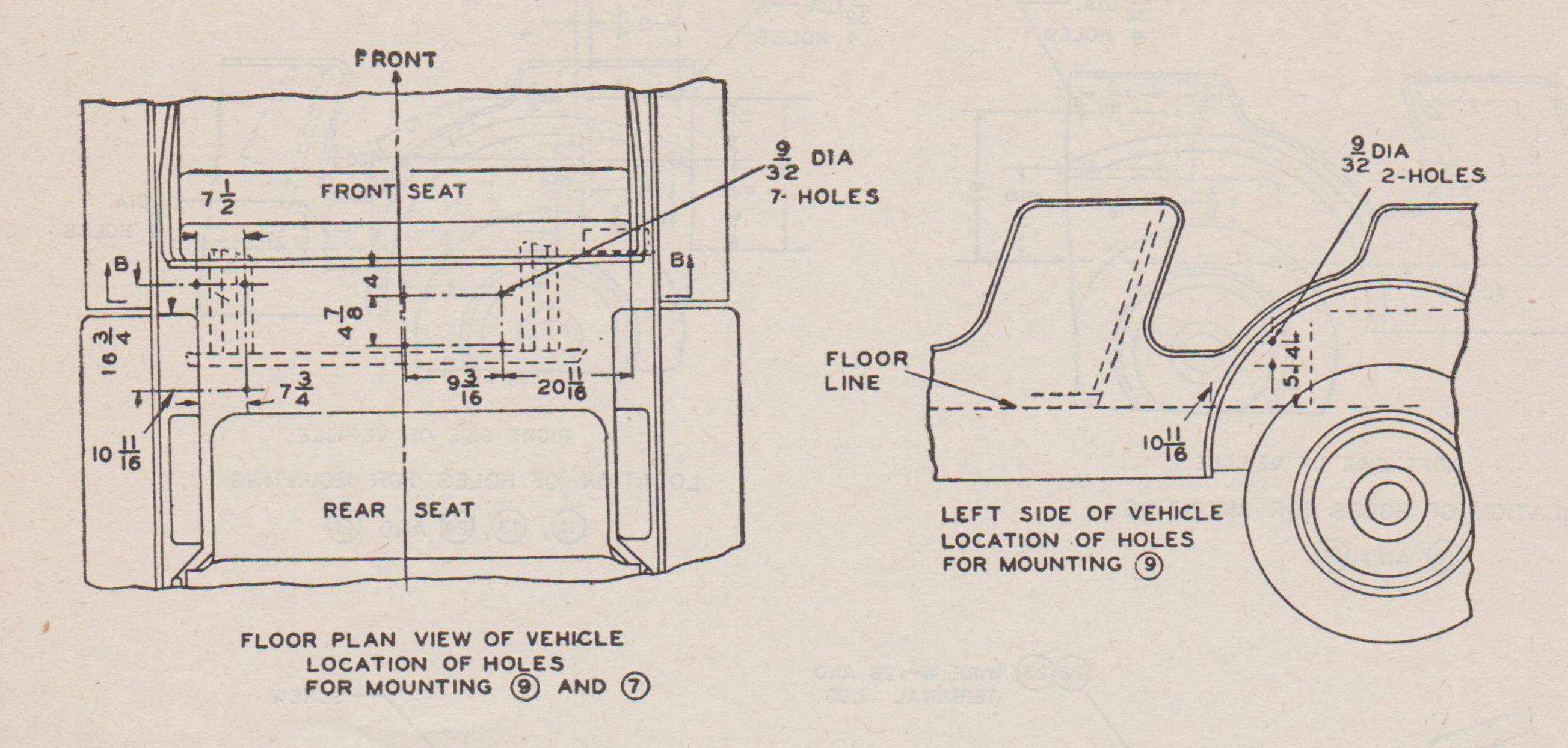




APPLICATION OF SHAKEPROOF WASHERS (SEE NOTE 2)

ITEM NO.	NAME OF ITEM	QUAN. REQ.
100	AMPLIFIER BC-908-()	1
2	RECORDER SCANNER 8C-918-()	1
2	DYNAMOTOR DM-21-()	1
U	MOTOR MO-28-()	1
6	RESISTOR RS-288-()	1
234567890	VIBRATOR VB-3-()	1
7	WRITING STAND MC-308-()	1
A	MOUNTING FT-318-()	1
9	MOUNTING FT-328-()	1
10	SHELF	1
11	SHELF	1 1
12	BRACKET	2
13	BRACKET	2
14	.COYER BG-118-()	1
15	COVER 8G-128-()	1
16	CONNECTOR 6 1007	1
17	BONDNUT BL-50	1
18	CORD CD-606-()	1
19	CORD CD-608-()	11
20	CORD CD-1018-()	
21	CORD CD-1019-()	1
22	WIRE W-128 9 IN. LONG SEE NOTE 3	2 2
23	TERMINAL LUG SEE NOTE 4	
24	CLAMP"4	14
25	CLAMP*5>PER FIG. 14	2
26	CLANP *6)	2
27	HEX. HEAD MACH. SCREW 5/16-24 X 3/4 LONG SEE NOTE 2	8
28	HEX. HEAD MACH. SCREW 1/4-20 X 3/4 LONG SEE NOTE 2	8
29	ROUND HEAD MACH. SCREW*8-32 X 1/2 LONG	14
30	HEX. NUT 5/16-24 STD.	8
31	HEX. NUT 1/4-20 STD.	8
32	HEX. NUT*8-32 STD.	14
33	SHAKEPROOF WASHER FOR 5/16 SCREW	16
34	SHAKEPROOF WASHER FOR 1/4 SCREW	16
35	LOCKWASHER S.A.E. REGULAR FOR*8 SCREW	114

1.	FOR ADDITIONAL COMPONENTS AND SPARE	PARTS, SEE PARTS LIST.
	THE NUT OF EACH SCREW (27) AND (28).	
	WIRE W-128 SHALL BE CUT TO PROPER L	
	I INCH, AND TINNED. (23) SECURELY SO	
4.	23 SECURED TO FORWARD MOUNTING BOLT	
	AND FT-328-().	
5.	DIMENSIONS WHERE NOT SHOWN OTHERWIS	SE ARE IN INCHES.
6.	DRAWING REFERENCES:	
	INSTALLATION	FIG. NO.
	SCR-506-()	6
	SCR-506-() AND SCR-510-()	?
	SCR-193-Q SCR-193-Q AND SCR-510-()	
	RC-58 WITH SCR-506-()	2
	RC-58 WITH SCR-506-() AND SCR-510	-() 3



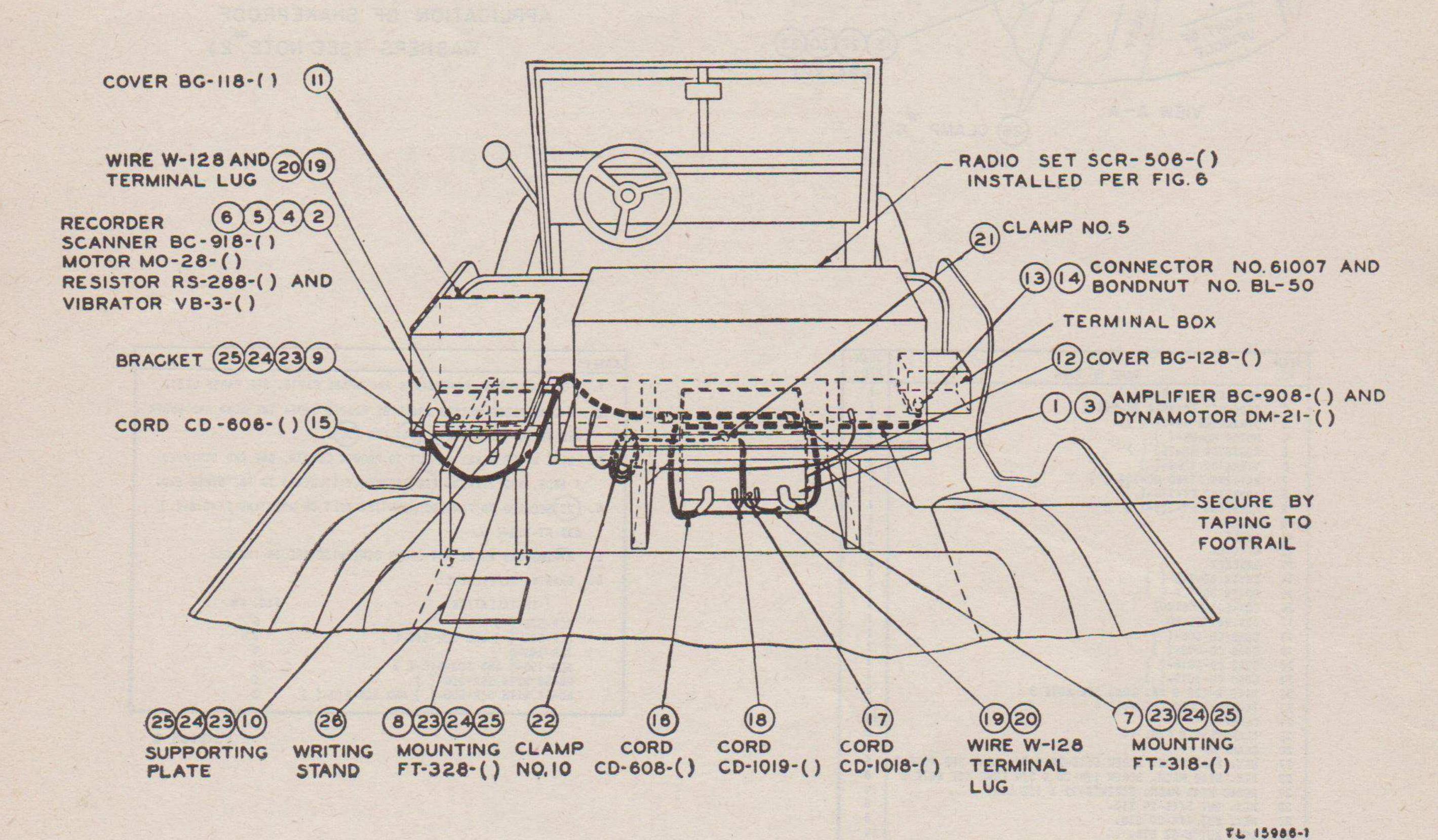
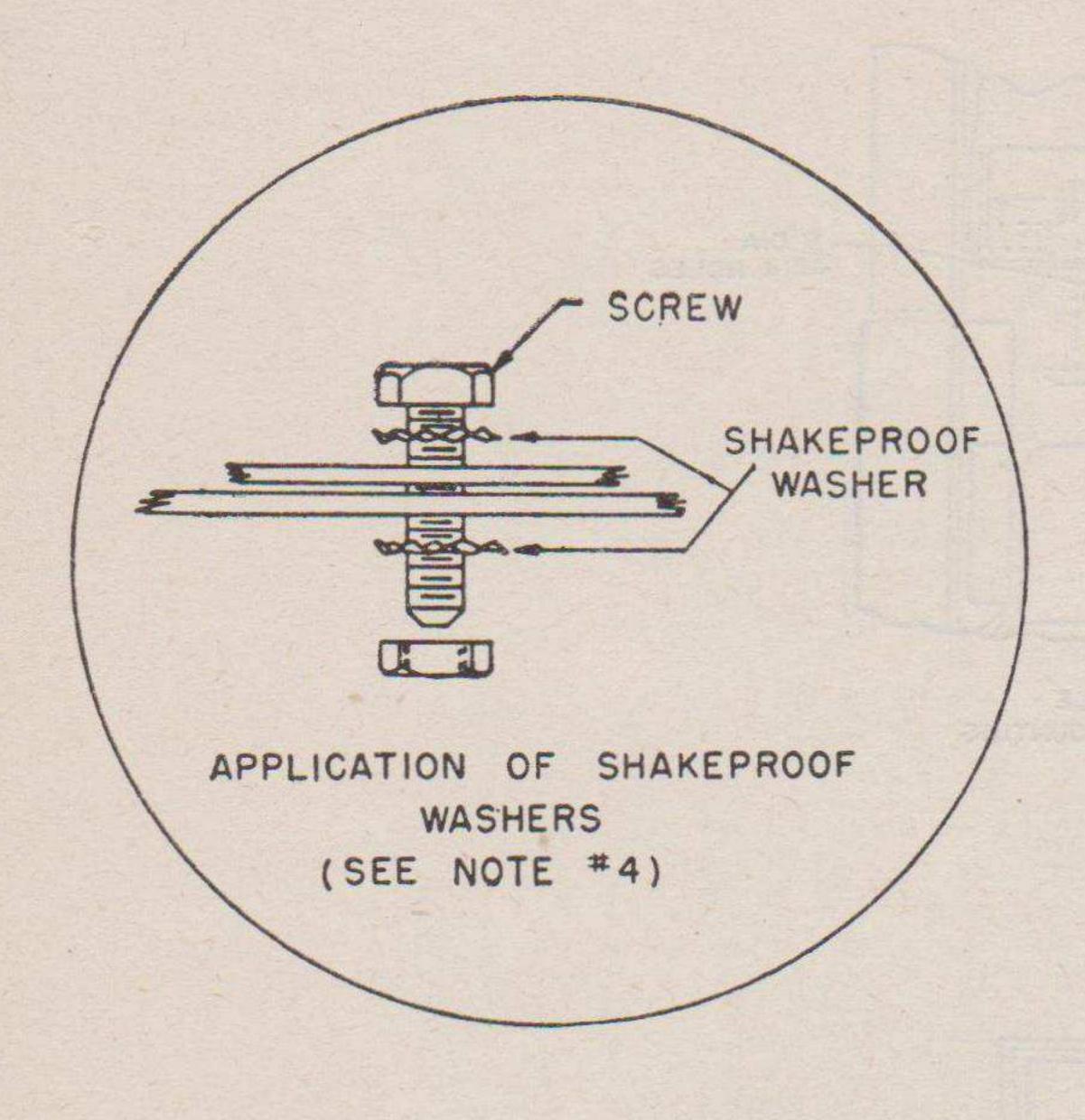
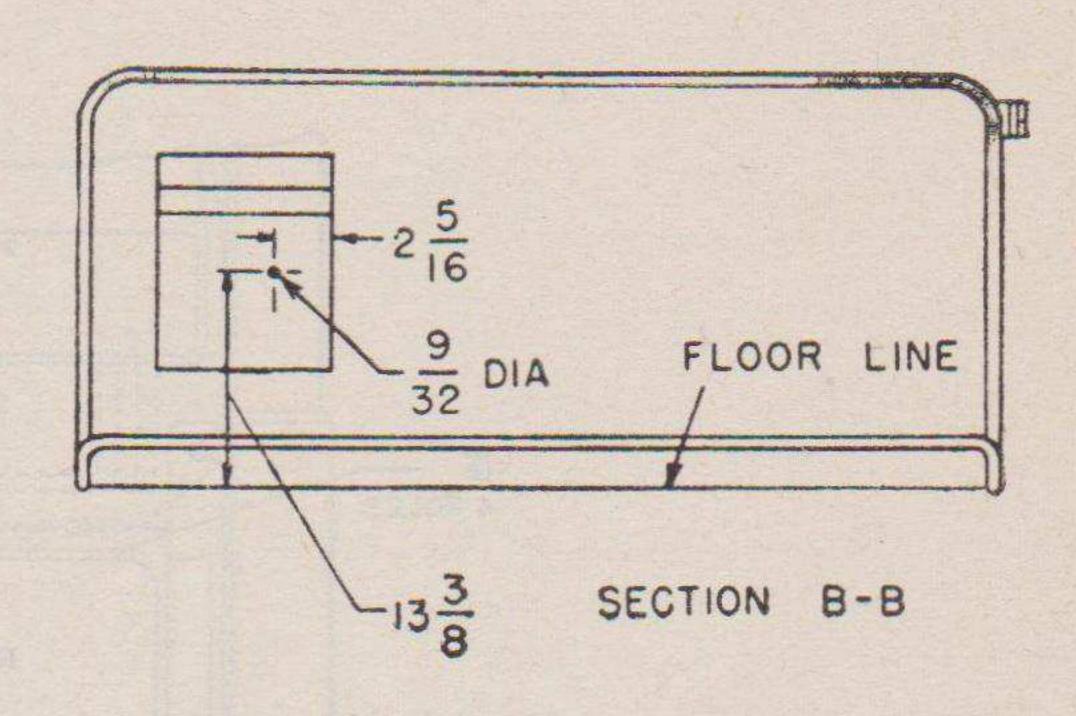
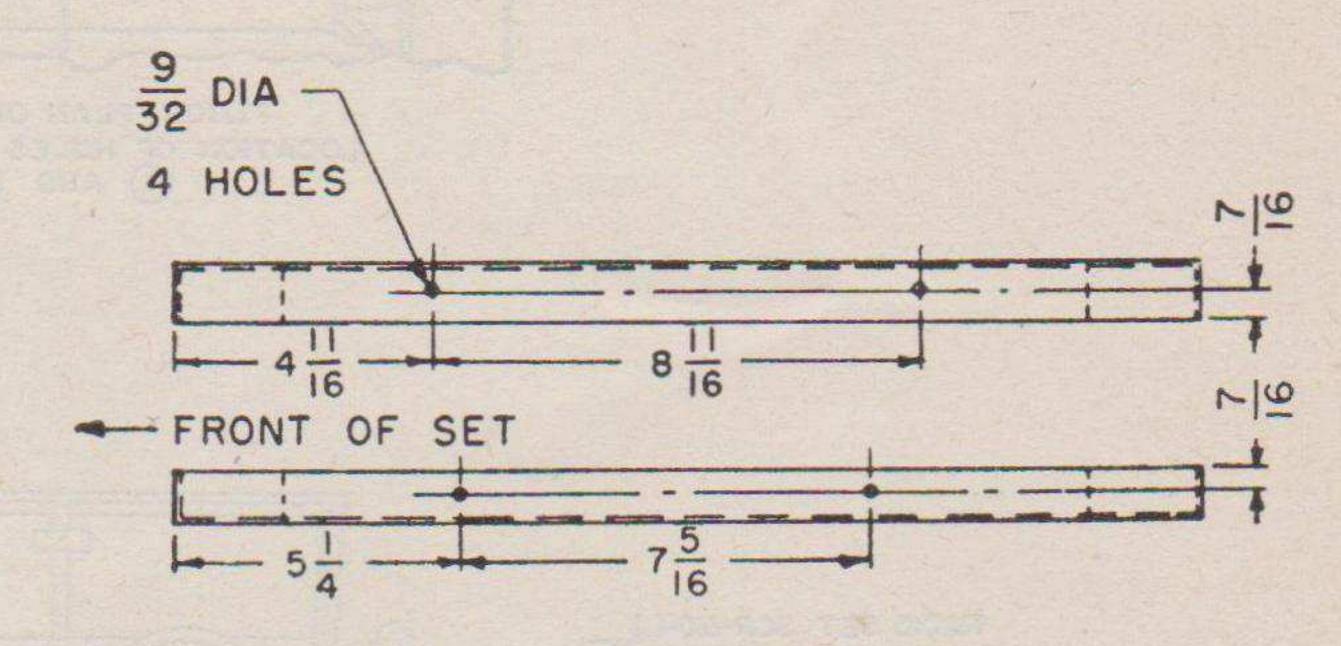


Figure 2. Installation of Facsimile Equipment RC-58-() with Radio







DRILLING DETAILS OF MOUNTING BRACKETS 9 FOR RC-58 RECORDER SCANNER

ITEM NO.	NAME OF ITEM	QUAN. REQ.
1	AMPLIFIER BC-908-()	
2	RECORDER SCANNER BC-918-()	
3	DYNAMOTOR DM-21-()	
4	MOTOR MO-28-()	1
5	RESISTOR RS-288-()	1
6	VIBRATOR VB-3-()	16
7	MOUNTING FT-318-()	1
8	MOUNTING FT-328-()	1
9	BRACKET	2
10	SUPPORTING PLATE	2
11	COVER BG-118-()	1
12	COVER BG-128-()	1
13	CONNECTOR 61007	1
14	BONDNUT BL-50	1
15	CORD CD-606-()	1
16	CORD CD-608-()	1
17	CORD CD-1018-()	1
18	CORD CD-1019-()	1
19	WIRE W-128 9 IN. LONG SEE NOTE 2	2
20	TERMINAL LUG SEE NOTE 3	2
21	CLAMP 5 PER FIG. 14	2
22	CLAMP 10	1
23	HEX. HEAD MACH. SCREW 1/4-20 X 3/4 LONG SEE NOTE 4	18
24	HEX. NUT 1/4-20	18
25	SHAKEPROOF WASHER SEE NOTE 4	36
26	WRITING STAND MC-308-()	

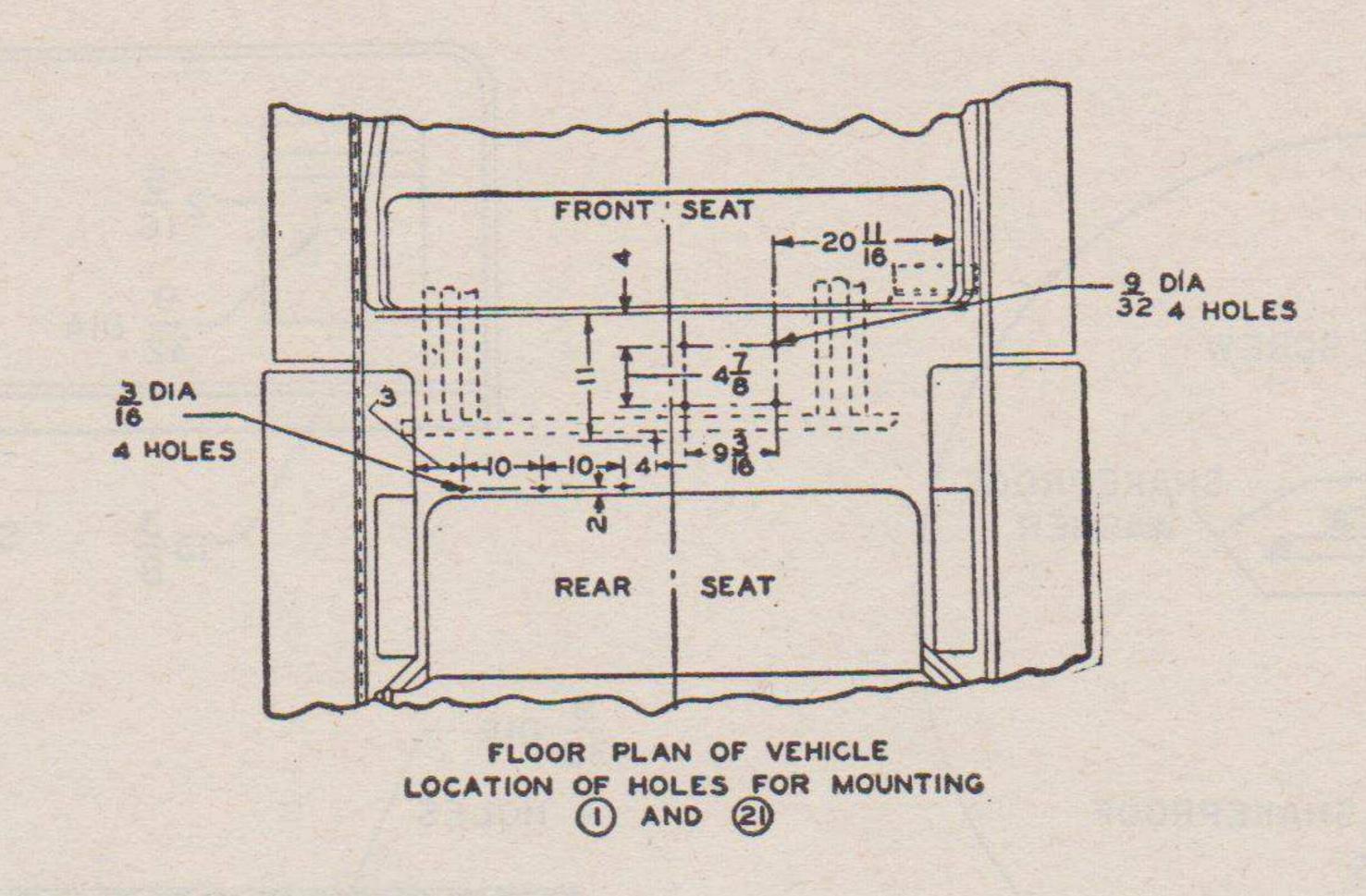
NOTES:

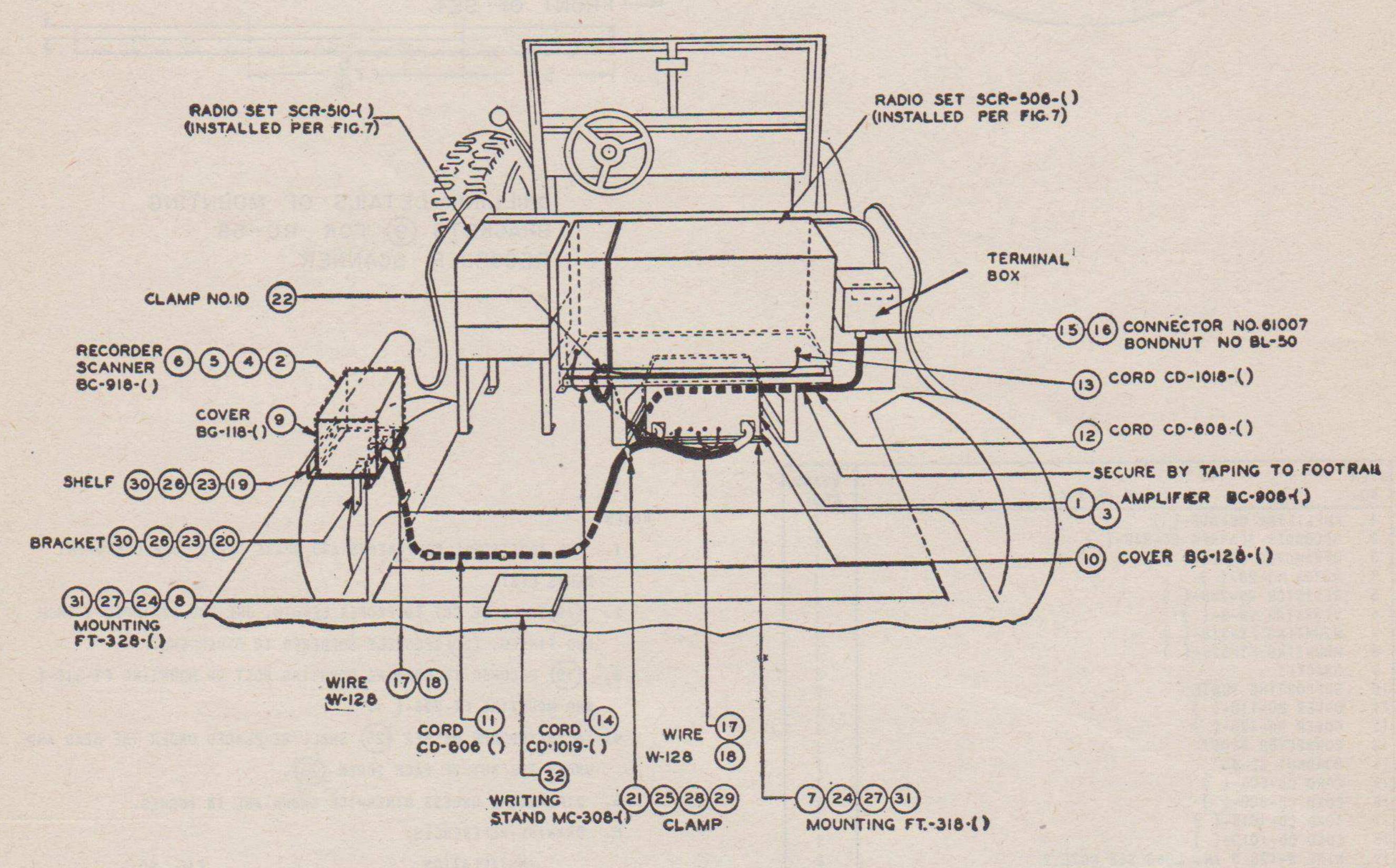
- 1. FOR ADDITIONAL COMPONENTS AND SPARE PARTS, SEE COMPONENT PARTS LIST.
- 2. (19) SHALL BE CUT TO PROPER LENGTH. ONE END STRIPPED I INCH AND TINNED. (20) SECURELY SOLDERED TO OTHER END.
- 3. (19) SECURED TO FORWARD MOUNTING BOLT ON MOUNTING FT-318-()
 AND MOUNTING FT-328-().
- 4. A SHAKEPROOF WASHER (25) SHALL BE PLACED UNDER THE HEAD AND UNDER THE NUT OF EACH SCREW (23).
- 5. DIMENSIONS UNLESS OTHERWISE SHOWN ARE IN INCHES.
- 6. DRAWING REFERENCES:

```
INSTALLATION FIG. NO.

SCR-506-()
SCR-506-() AND SCR-510-()
SCR-193-Q
SCR-193-Q AND SCR-510-()
RC-58-() WITH SCR-510-() AND SCR-193-Q
TL15986-2
```

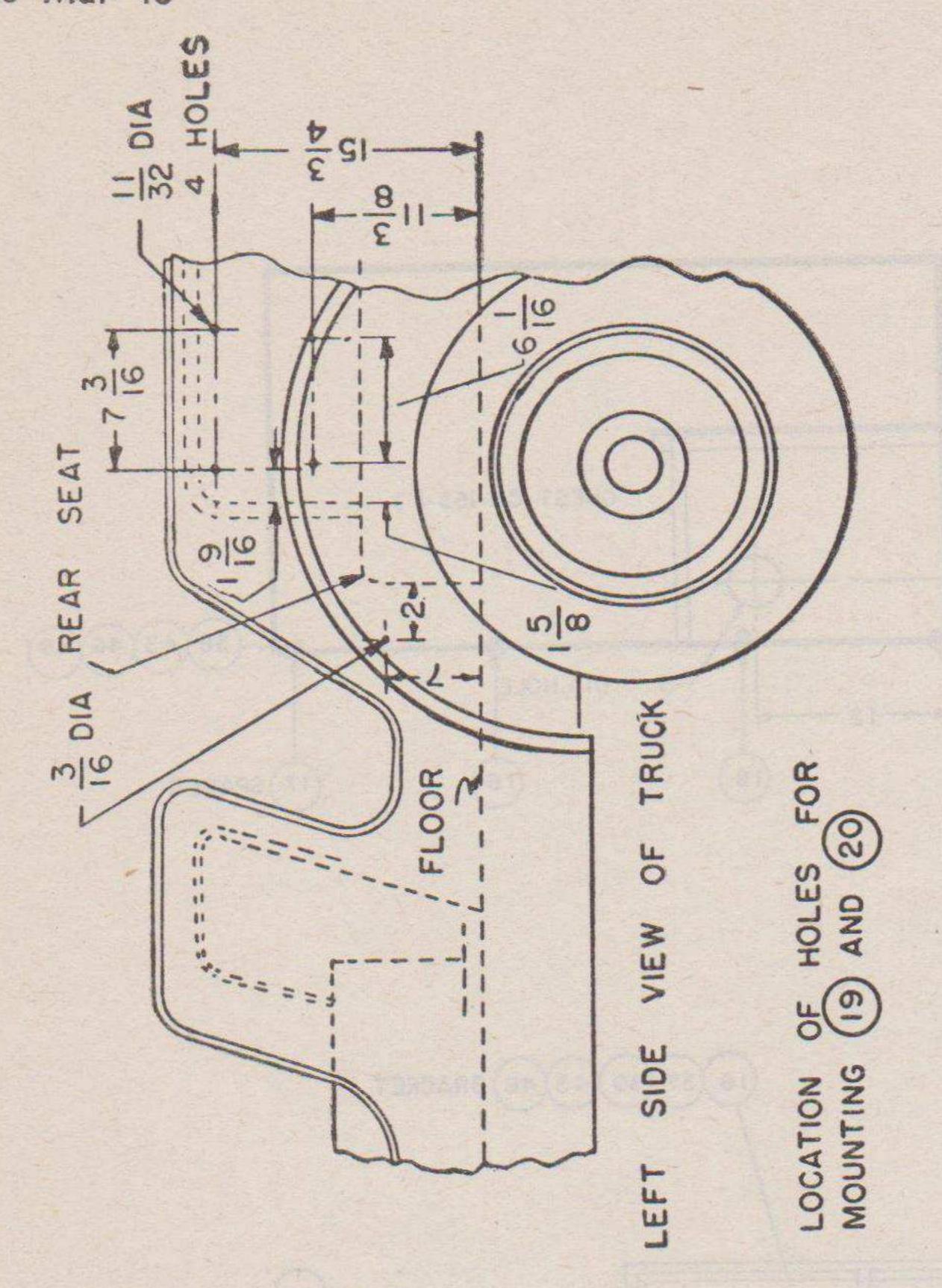
Set SCR-506-() in Truck, 3/4-ton, 4x4, Command Reconnaissance.

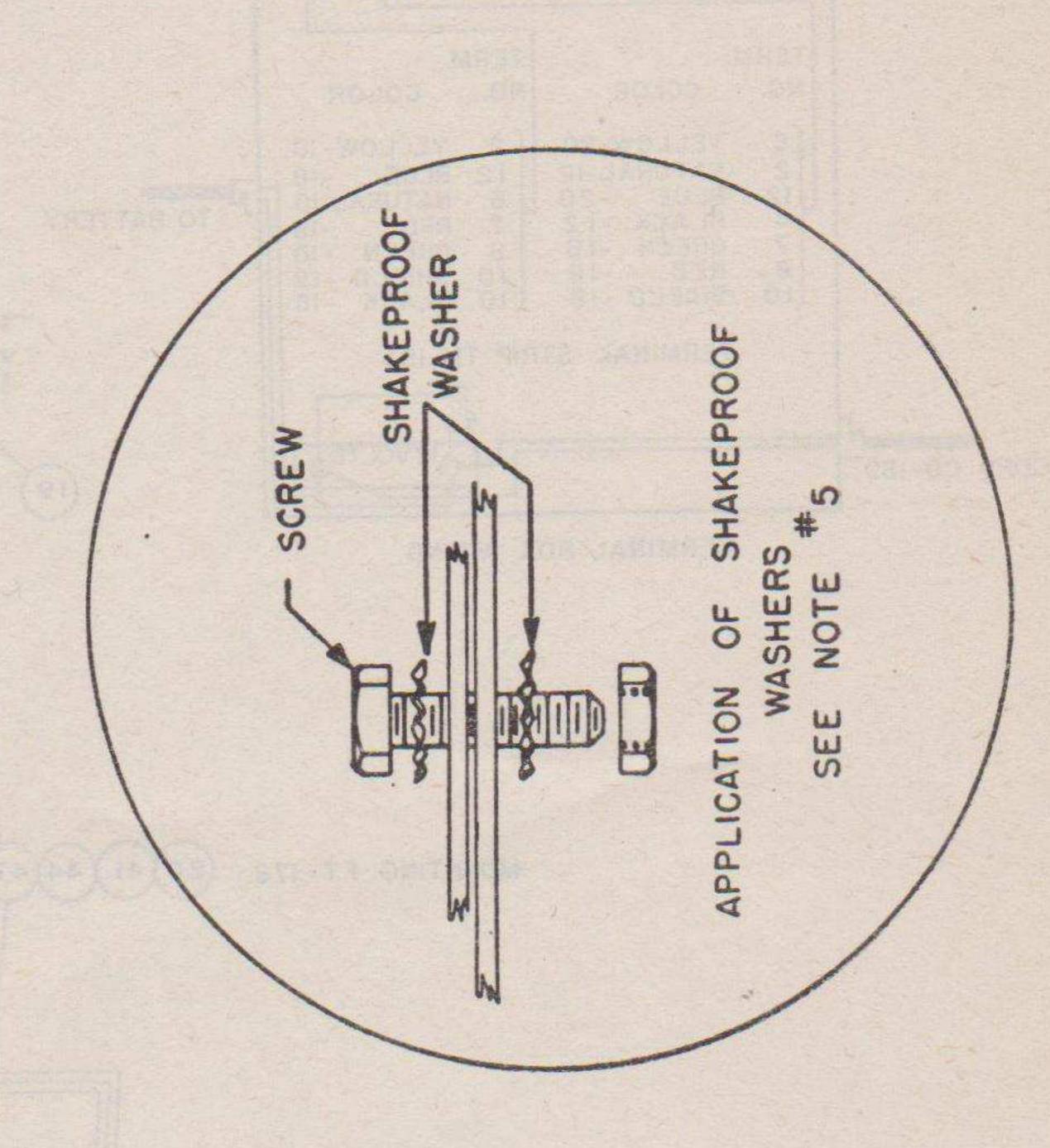




5 050-

Figure 3. Installation of Facsimile Equipment RC-58-() with Radio Sets

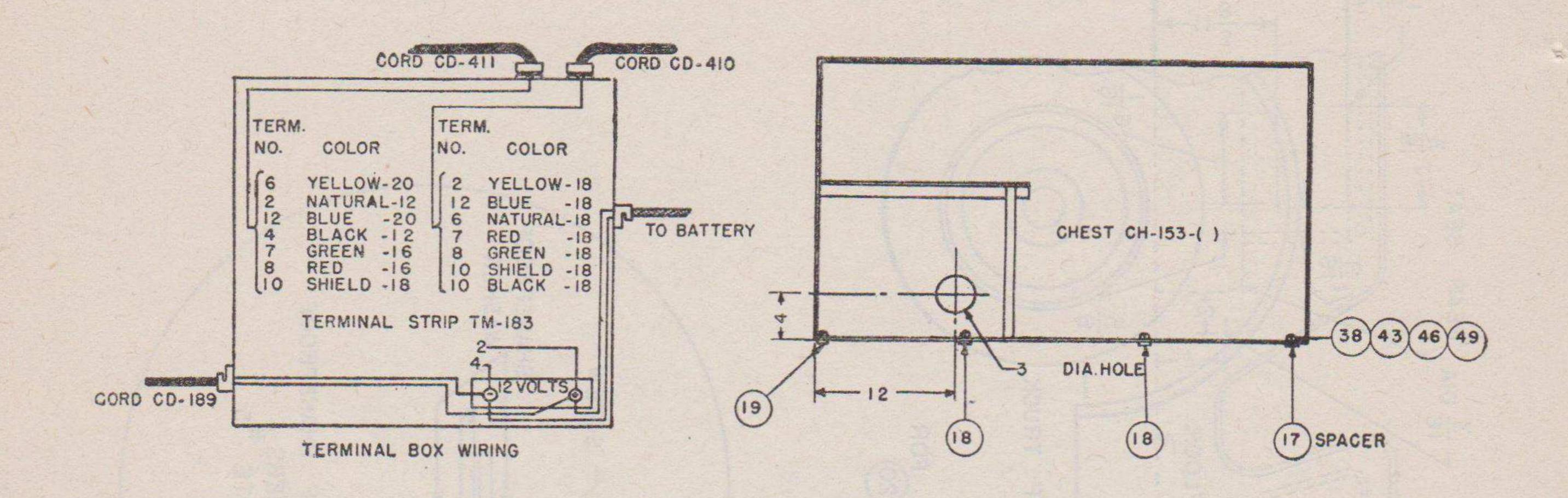




QUAN.	-	-	-	_	-	-	_	-	-	-	_	_	-	-	-	-	2	2		2	2	-	3	80	2	=	8	2	S.	80	9	-
MARE OF ITEM	MPLIFIER 8	ECORDER SCANNER	YNAMOTOR DM	OTOR MO-28-	ESISTOR RS-28	IBRATOR VB-	FT-31	FT-	-	100	9	0	-810	CORD CD-1019-()	19# 2	181-5	28 9 IN. LONG	LUG SEE-NOTE 2		BRACKET	PER FIG) PER FIG. 14	MACH. SCREW 5/16-24	MACH. SCREW 1/4-20 X 3/4 LONG SEE NOTE	W #8-32 X 1/2 LONG	5/16-24	1/4-20	₩8-32 STD.	ER STD. FOR #8	DF WASHER 5/16 S	HAKEPROOF WASHER 1/4 S	NG STAND MC-308-()
I TEM	-	2	m	#	2	9	1	80	6	0	=	12	13	#	15	91	17	18	61	20	21	22	23	24	25	26	27	28	25	30	5	32

COMPONENT PARTS INCH AND TINNED. UNDER BE PLACED UNDER, THE HEAD AND (24). INCHES PARTS, SEE Z ONE END STRIPPED AND SCR-510-()
WITH SCR-506-()
WITH SCR-193-0 AND SCR-510-() SHOWN OTHERWISE COMPONENTS AND SPARE SECURELY SOLDERED TO OTHER END CUT TO PROPER LENGTM. THE NUT OF EACH SCREW (23) SHAKEPROOF WASHER SHALL WHERE NOT DRAWING REFERENCES: ADDITIONAL DIMENSIONS FOR A LIST.

SCR-506-() and SCR-510-() in Truck, ¾-ton, 4x4, Command Reconnaissance.



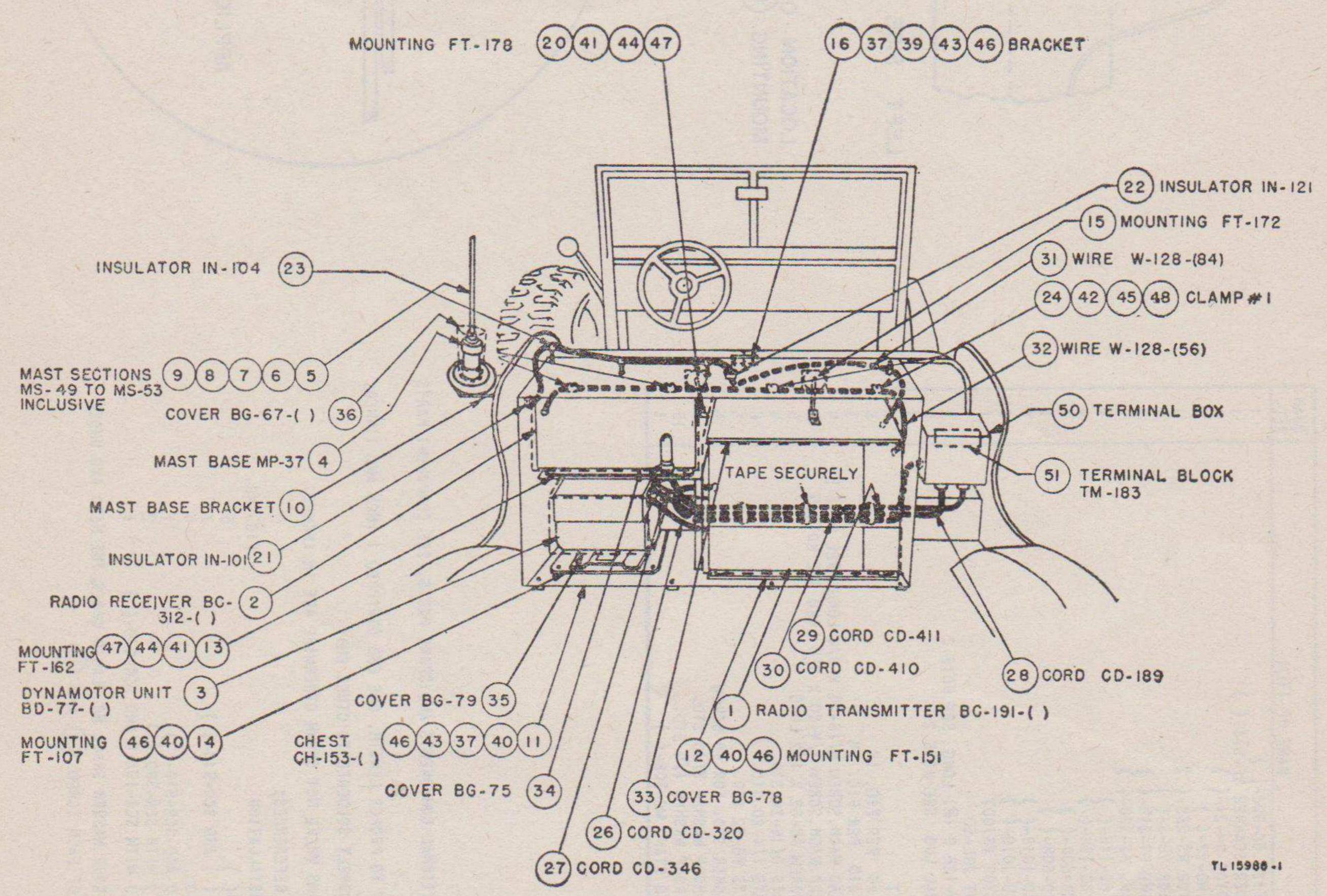
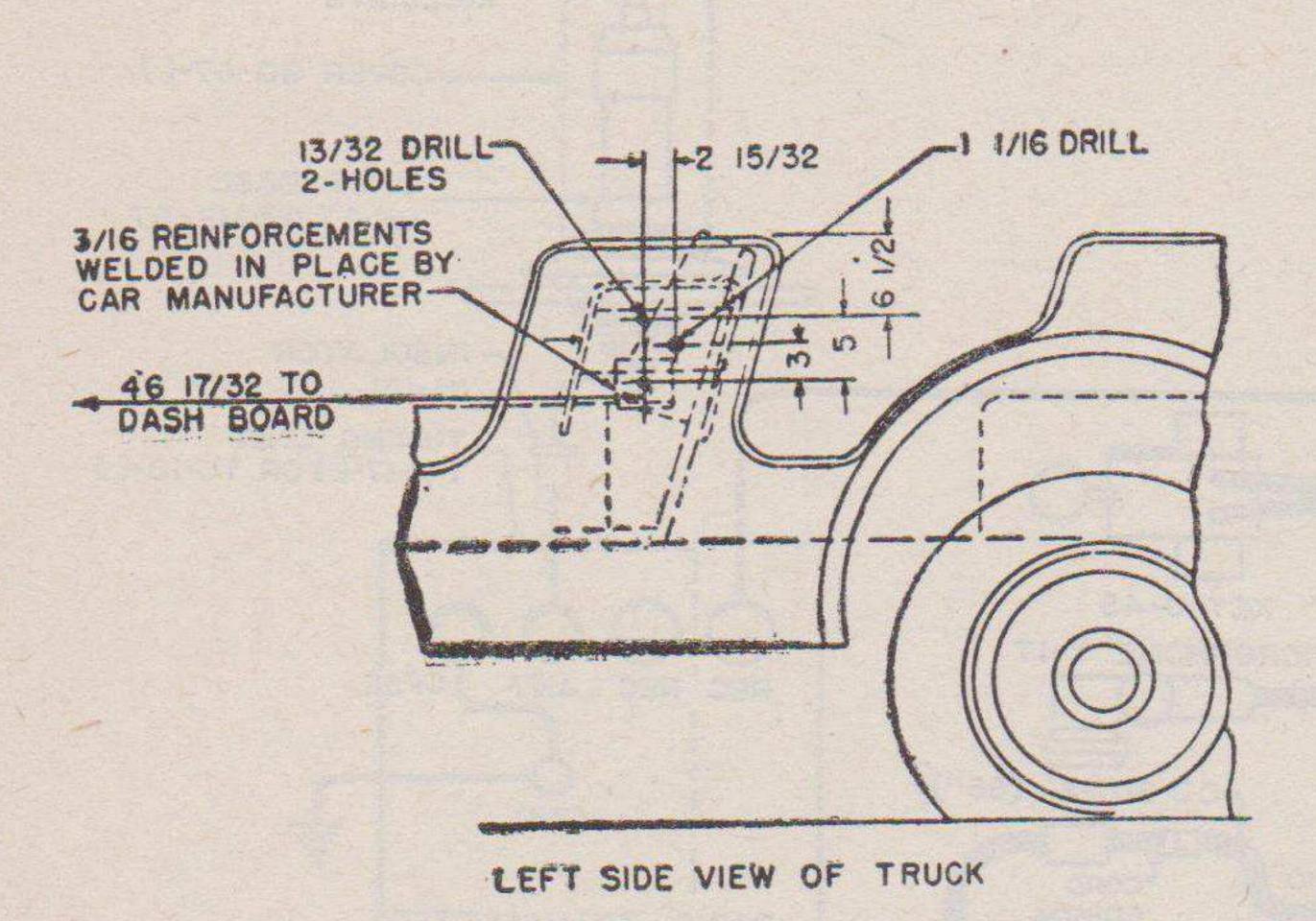
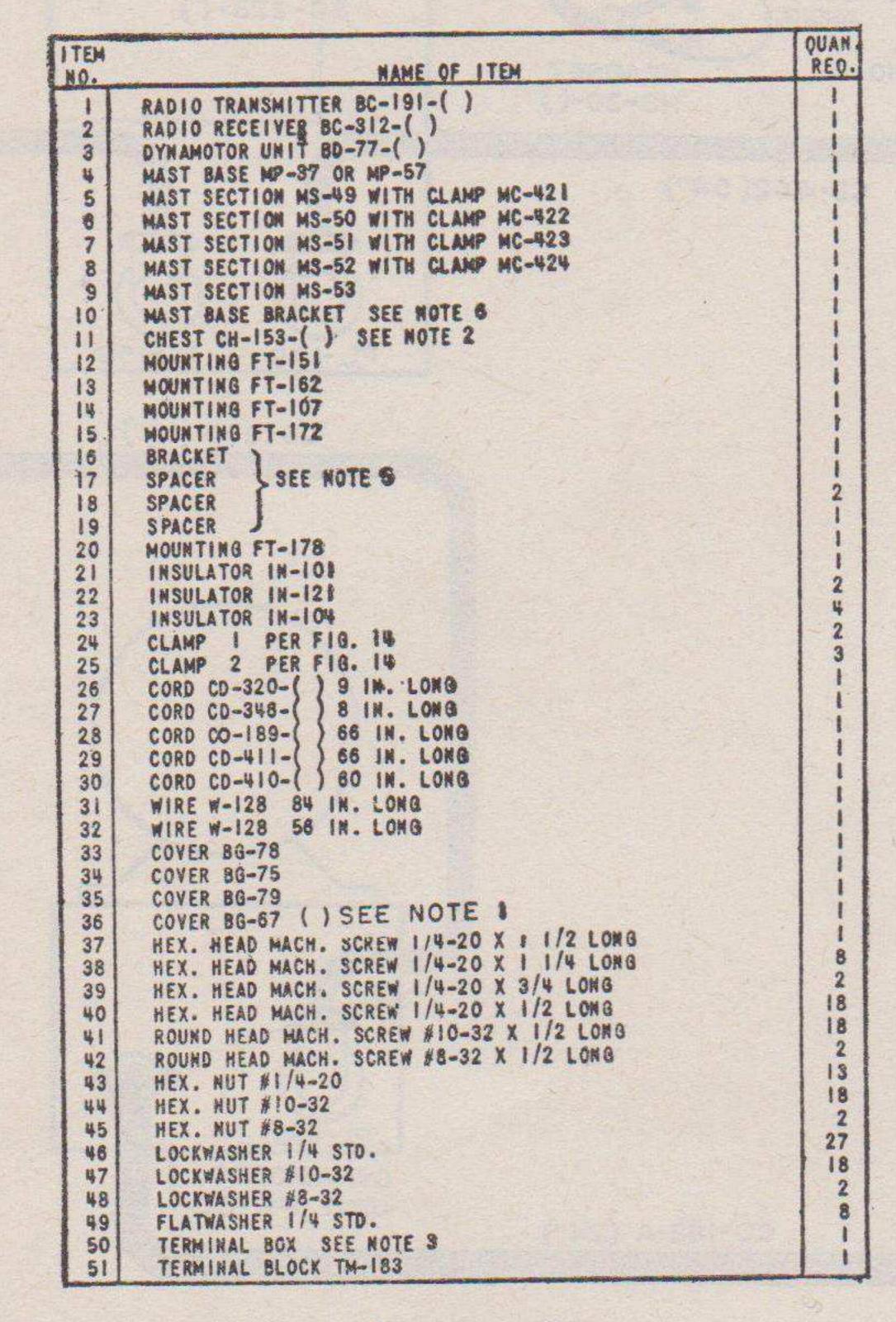
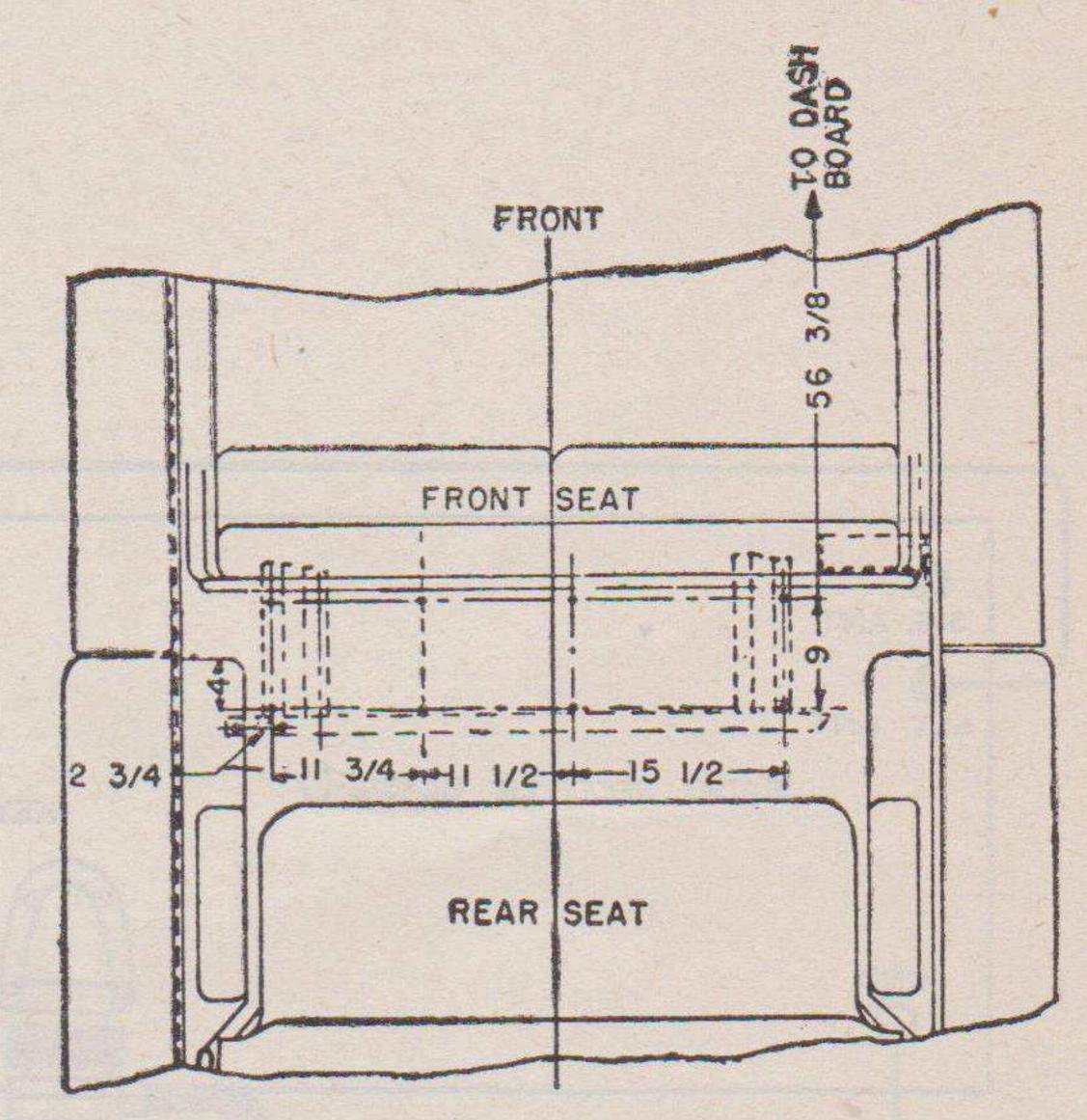


Figure 4. Installation of Radio S3t SCR-193-Q







FLOOR PLAN VIEW OF TRUCK

MOTES:

- 1. 36 SHALL BE USED WHEN MAST SECTIONS ARE NOT INSTALLED.
- 2. 3 IN. DIA. HOLE SHALL BE PROVIDED IN CHEST CH-153-() FOR ROUTING OF CORDAGE. SEE CHEST VIEW.
- 3. 60 SHALL BE FURNISHED AND INSTALLED BY THE VEHICLE MANUFACTURER.
- WIRE W-128 SHALL BE CUT TO PROPER LENGTH. ENDS SHALL BE TINNED FOR CONNECTIONS.
- 6. 37 38 39 43 46 AND 49 ARE USED FOR INSTALLATION AND SHALL BE PLACED IN A HEAVY CLOTH BAG PLAINLY AND PERMANENTLY MARKED, "THIS BAG CONTAINS BOLTS, NUTS AND LOCKWASHERS FOR INSTALLATION". THIS BAG SHALL BE TIED TO BOX.
- 8. (10) SHALL BE FURNISHED AND INSTALLED BY. THE VEHICLE MANUFACTURER.

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in Truck, 3/4-ton, 4x4, Command Reconnaissance.

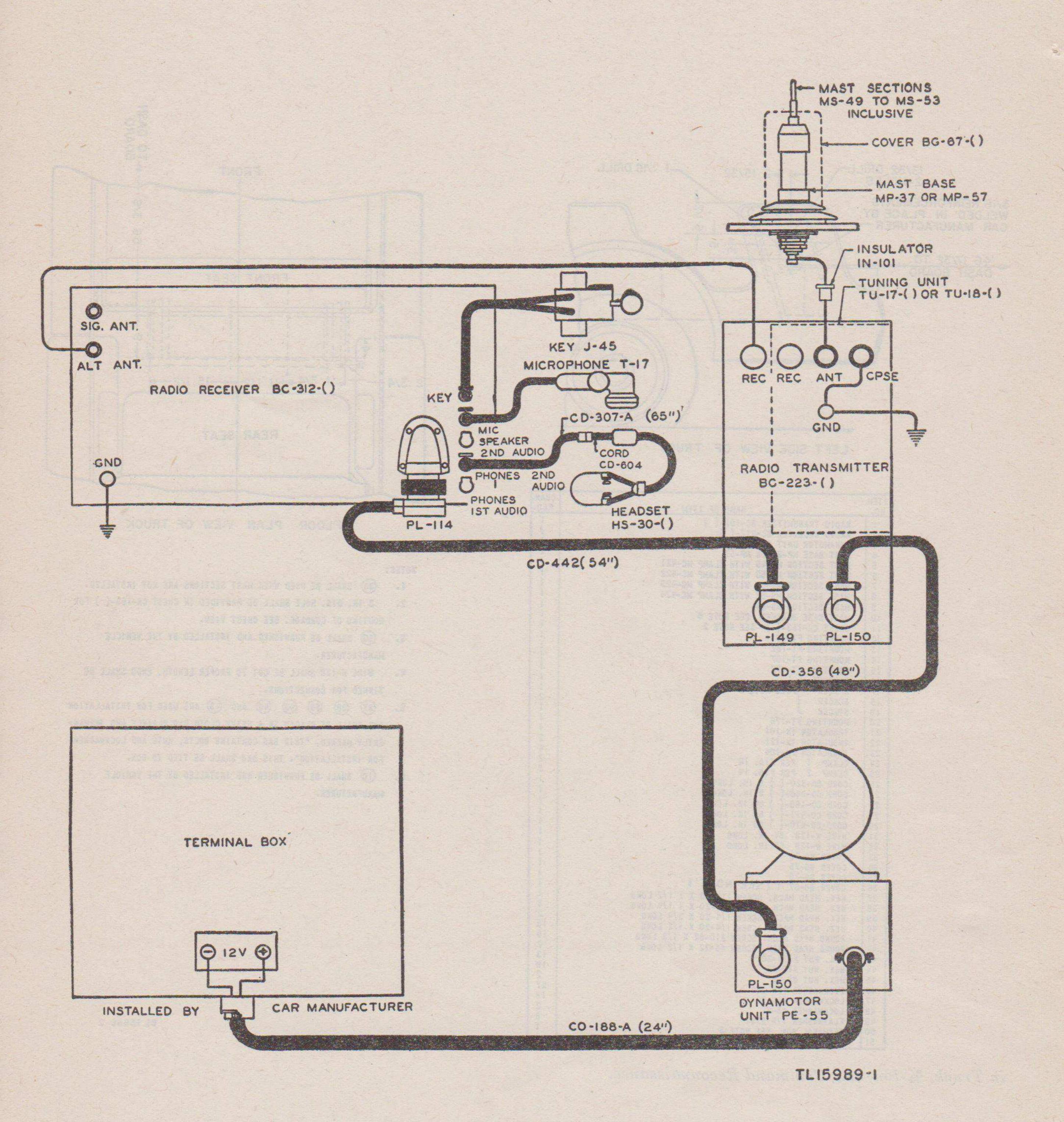
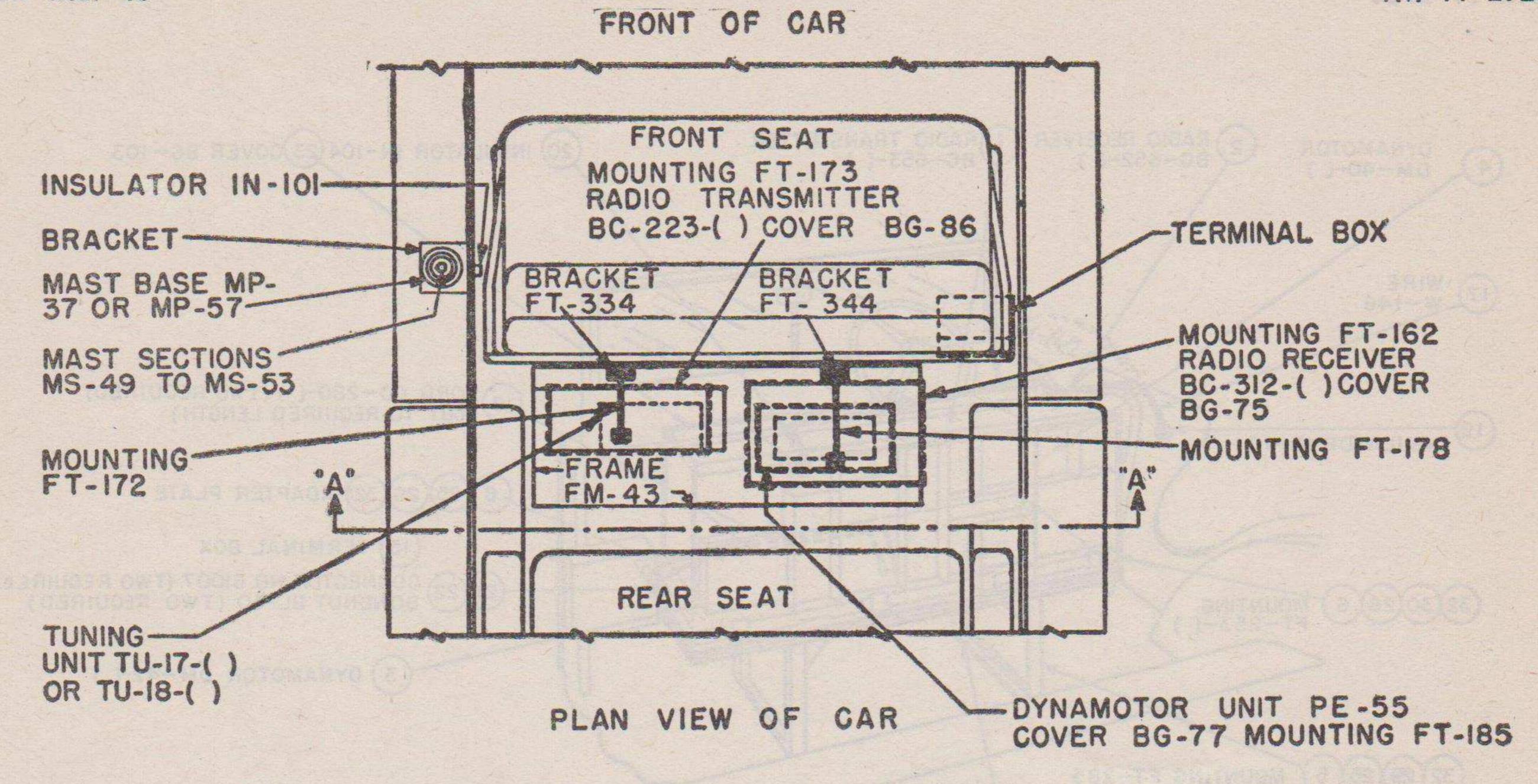
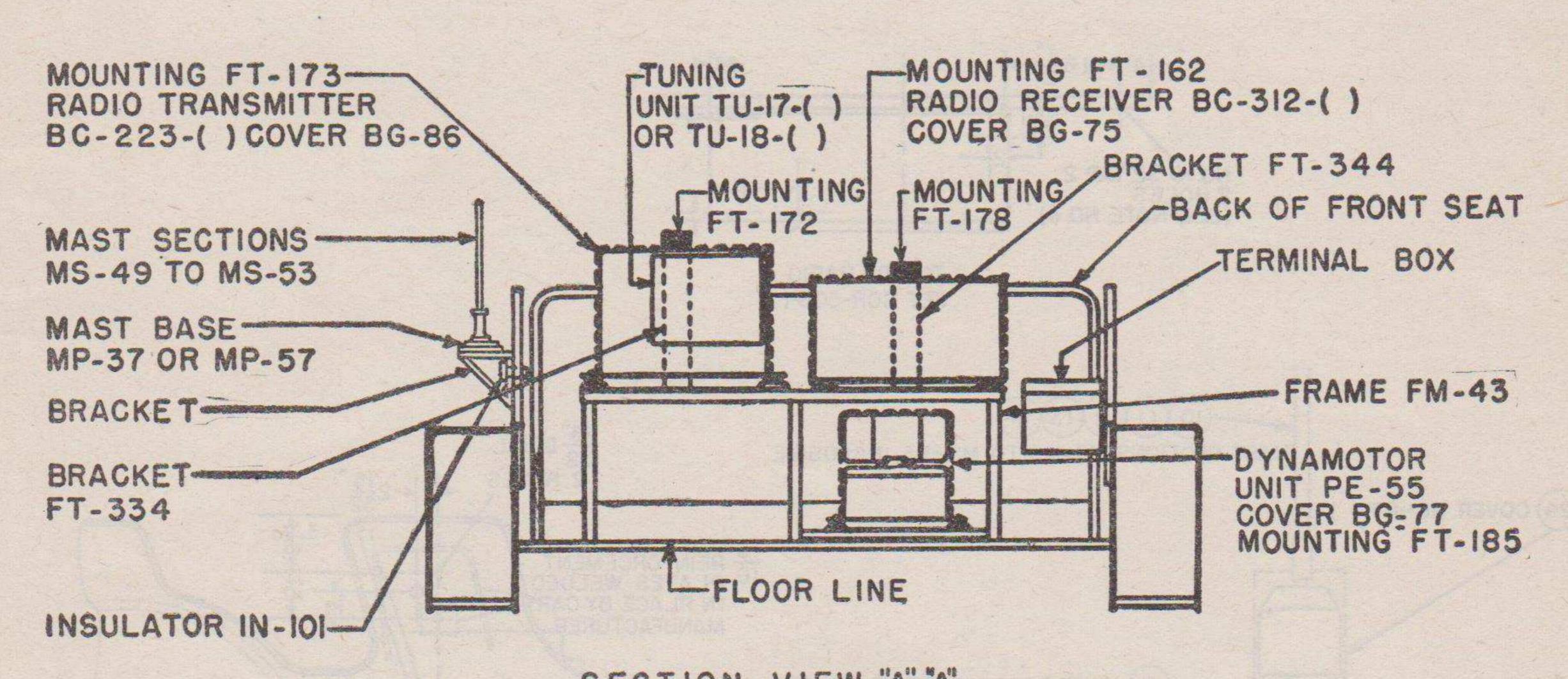


Figure 5. Cording diagram for Radio Set SCR-245-T





SECTION VIEW "A"-"A"

LOCATION OF EQUIPMENT

NOTES:

FIGURE 13

FOR ASSEMBLY OF MOUNTINGS FT-172 AND FT-178 SEE FIGURE 17.

SHALL BE MADE WITH WIRE W-128

ENDS OF WIRE W-128, AFTER BEING CUT TO PROPER LENGTH, SHALL BE TINNED FOR CONNECTIONS AT BINDING POSTS AND GROUND CONNECTIONS

TL 15989-2

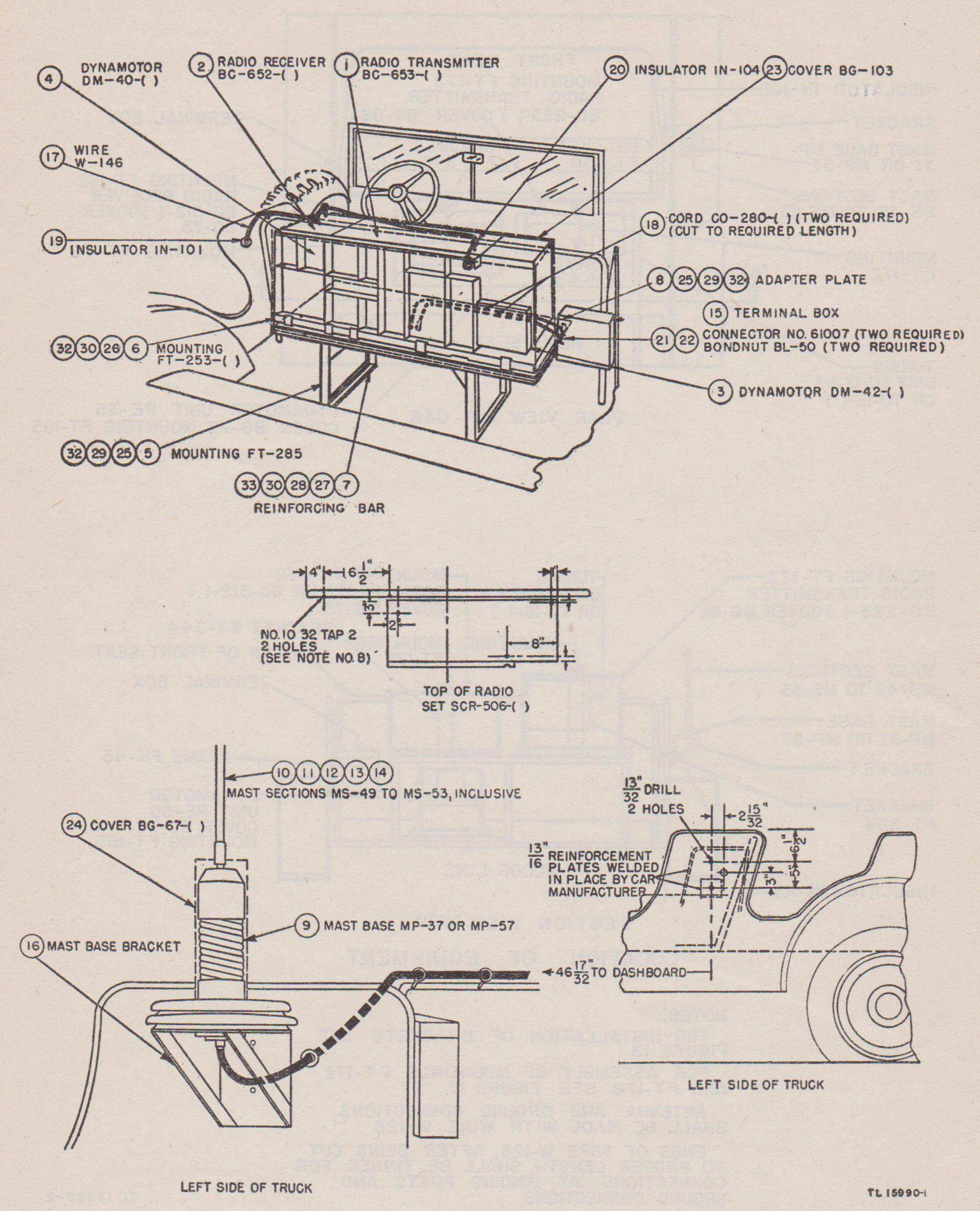
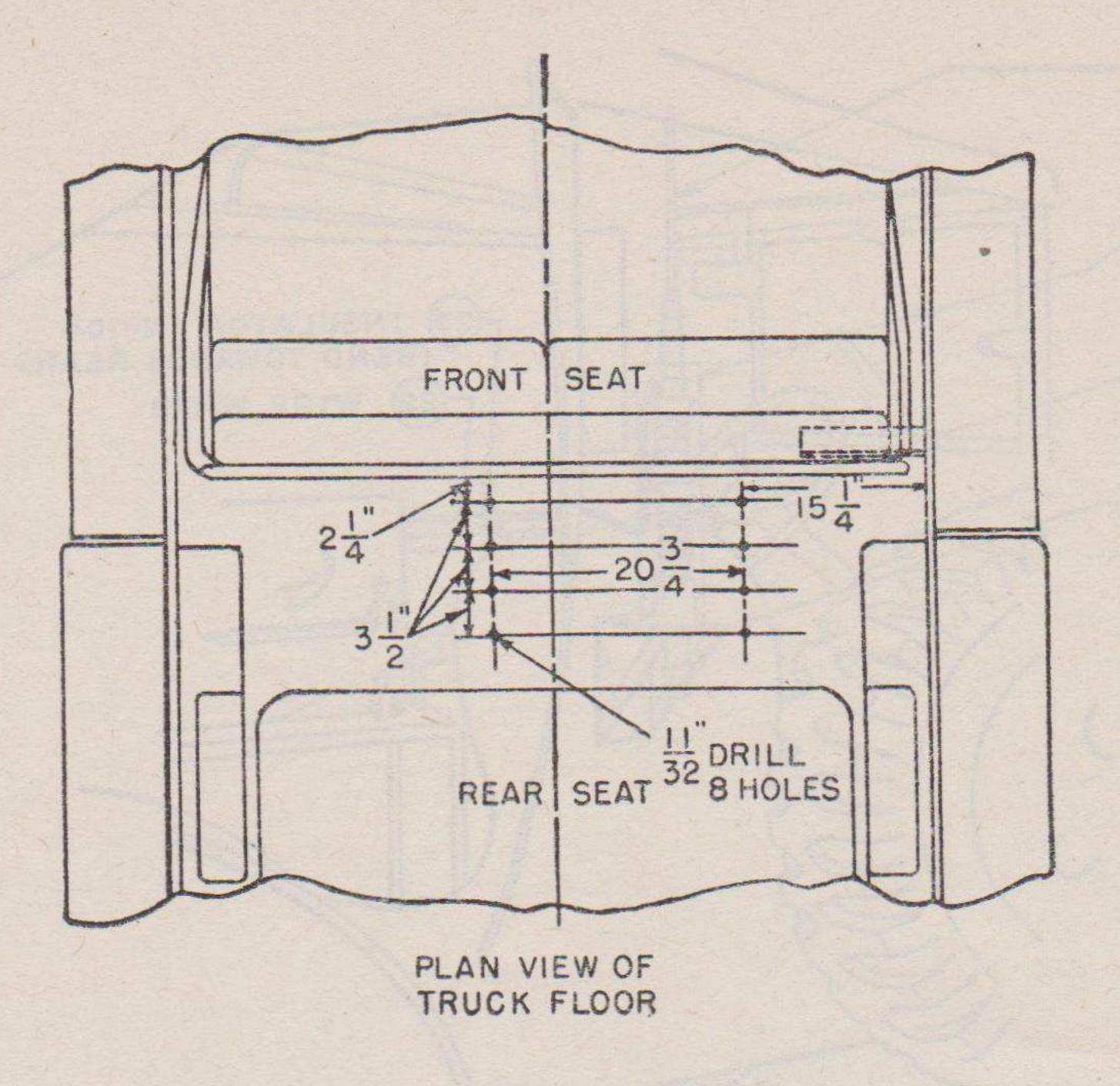


Figure 6. Installation of Radio Set SCR-506-()

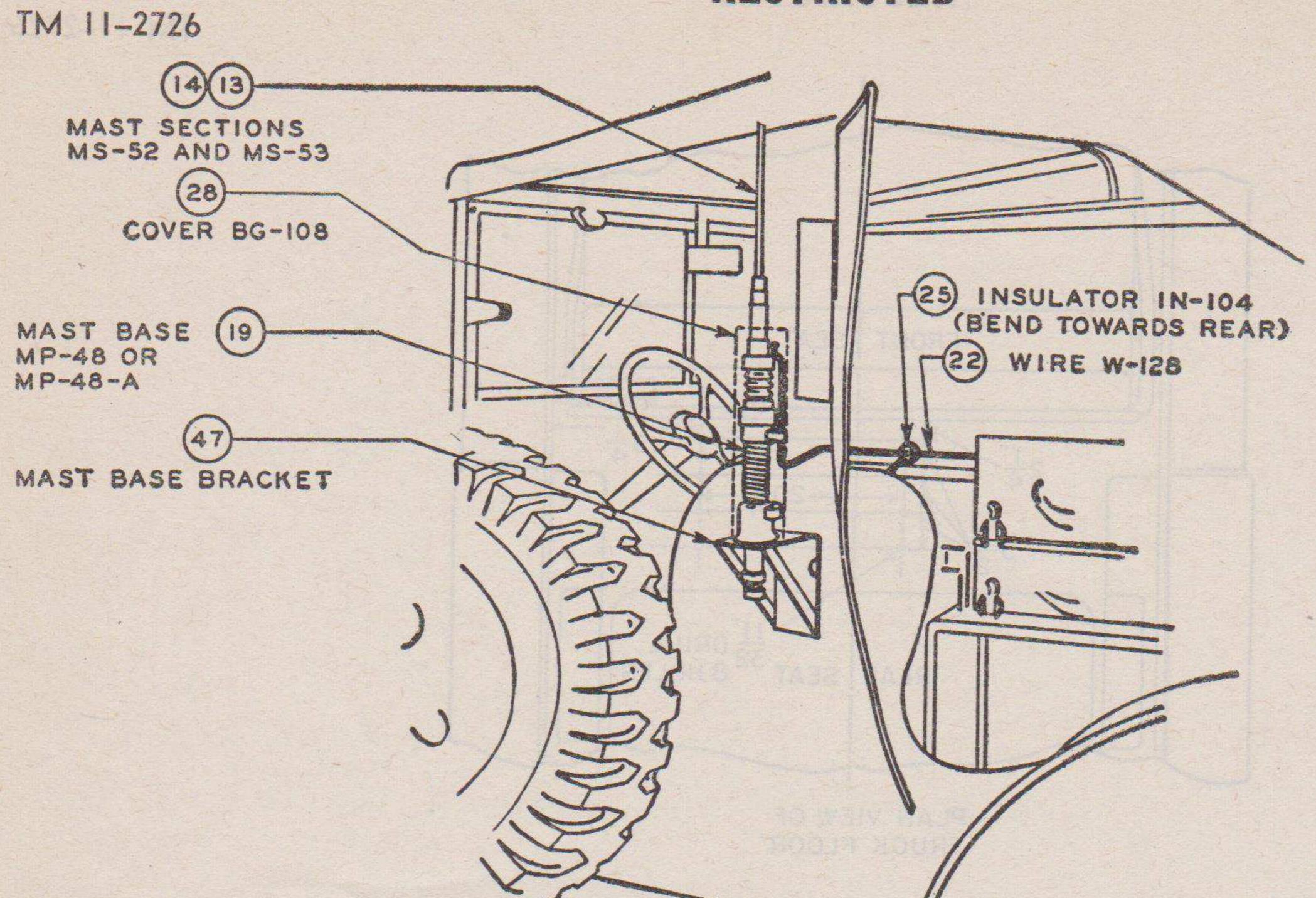


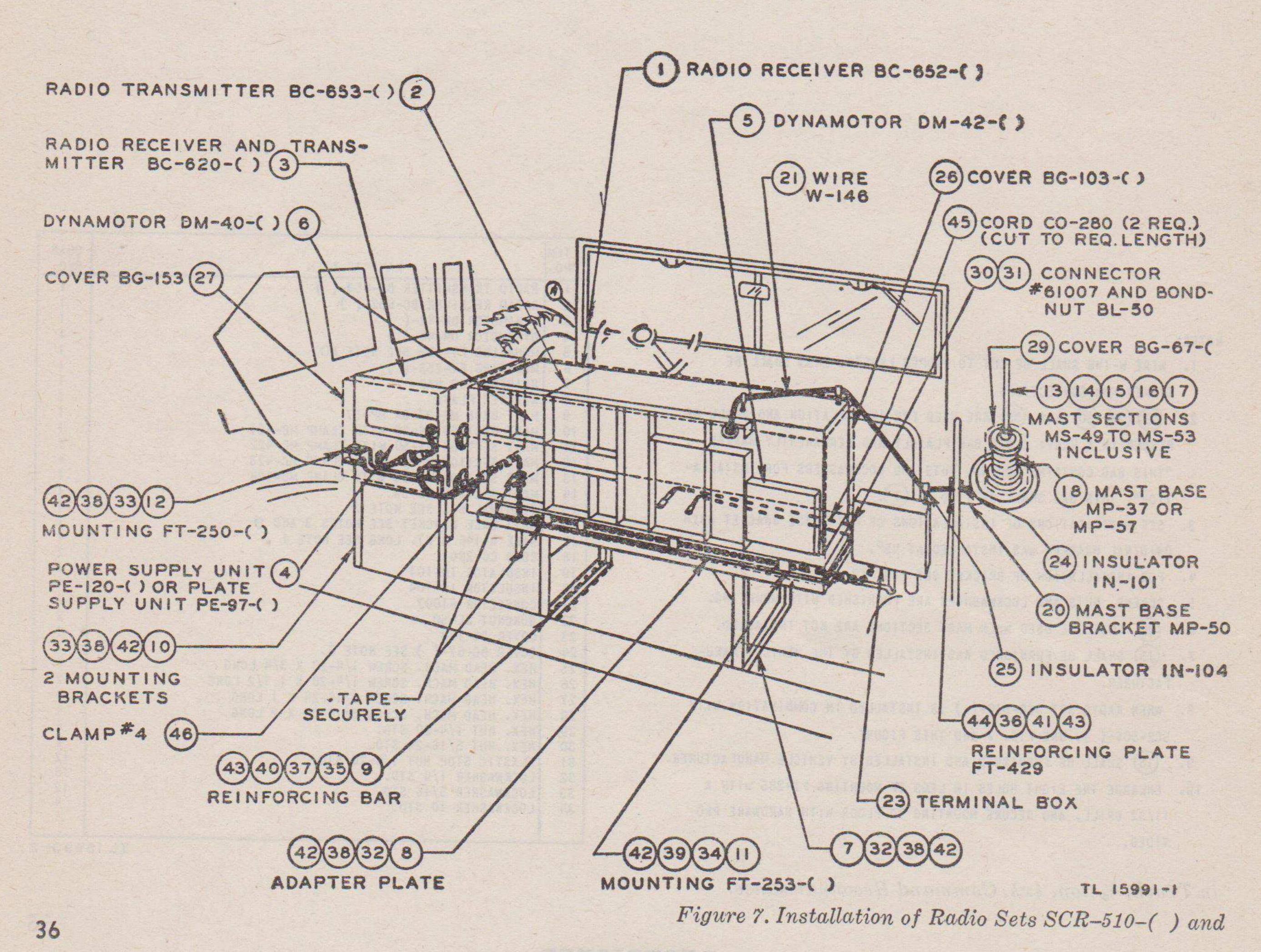
NOTES:

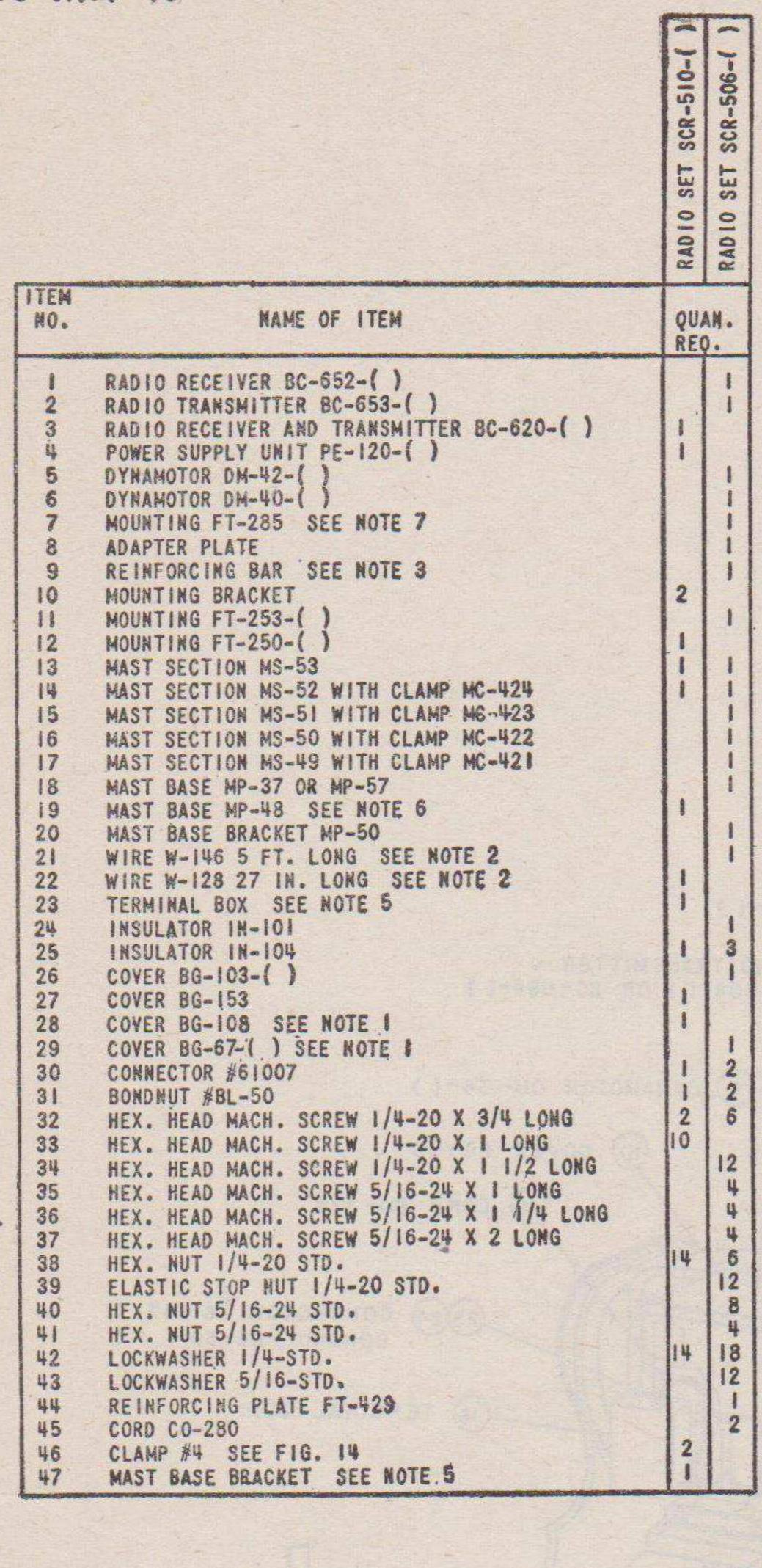
- 1. WIRE W-146 SHALL BE CUT TO PROPER LENGTH. ENDS SHALL BE TINNED FOR CONNECTIONS.
- 2. 27 28 30 AND 33 ARE USED FOR INSTALLATION AND SHALL BE PLACED IN A HEAVY CLOTH BAG PLAINLY AND PERMANENTLY MARKED, "THIS BAG CONTAINS SCREWS, NUTS AND LOCKWASHERS FOR INSTALLATION". THIS BAG SHALL BE TIED TO 7.
- 3. SEE MODIFICATIONS OF INSTALLATIONS OF MAST BASE BRACKET WHEN ORIGINAL BRACKET WAS INSTALLED AT 45°.
- 4. FOR INSTALLATION OF BRACKET SEE FIG. 13.
- 5. SCREWS, HUTS AND LOCKWASHERS ARE FURNISHED WITH MOUNTING.
- 6. (24) SHALL BE USED WHEN MAST SECTIONS ARE NOT INSTALLED.
- 7. (15) SHALL BE FURNISHED AND INSTALLED BY THE VEHICLE MANU-
- 8. WHEN RADIO SET SCR-510-() IS INSTALLED IN COMBINATION WITH SCR-506-(), USE FIG. 7 AND THIS FIGURE.
- 9. (16) SHALL BE FURNISHED AND INSTALLED BY VEHICLE MANUFACTURER.
- 10. ENLARGE THE EIGHT HOLES IN LEGS OF MOUNTING FT-285 WITH A 11/32 DRILL, AND SECURE MOUNTING TO FLOOR WITH HARDWARE PRO-VIDED.

ITEM		QUAN.
NO.	NAME OF ITEM	REQ.
1	RADIO TRANSMITTER BC-653-()	
2	RADIO RECEIVER BC-652-()	1
3	DYNAMOTOR DM-42-()	
4	DYNAMOTOR DM-40-()	
5	MOUNTING FT-285 SEE NOTE 10	
6	MOUNTING FT-253-()	
7	REINFORCING BAR	
8 9	ADAPTER PLATE	
	MAST BASE MP-37 OR MP-57	
10	MAST SECTION MS-49 WITH CLAMP MC-421	
11	MAST SECTION MS-50 WITH CLAMP MC-422	
12	MAST SECTION MS-51 WITH CLAMP MC-423	
13	MAST SECTION MS-52 WITH CLAMP MC-424	
14	MAST SECTION MS-53 TERMINAL BOX SEE NOTE 7	
16	MAST BASE BRACKET SEE NOTES 3 AND 9	l i
17	WIRE W-146 5 FT. LONG SEE NOTE I	
18	CORD CO-280	2
19	INSULATOR IN-101	
20	INSULATOR IN-104	4
21	CONNECTOR 61007	2
22	BONDNUT BL-50	1 2
And the second	COVER BG-103	
	COVER BG-67-() SEE NOTE 6	1
25	HEX. HEAD MACH. SCREW 1/4-20 X 3/4 LONG	6
26	HEX. HEAD MACH. SCREW 1/4-20 X 1 1/2 LONG	12
27	HEX. HEAD MACH. SCREW 5/16-24 X 1 LONG	4
28	HEX. HEAD MACH. SCREW 5/16-24 X 2 LONG	4
29	HEX. NUT 1/4-20 STD.	6
30	HEX. NUT 5/16-24 STD.	8
31	ELASTIC STOP NUT 1/4-20 STD.	12
The same of the sa	LOCKWASHER 1/4 STD.	18
	LOCKWASHER 5/16 STD.	12
3.4	LOCKWASHER 10 STD.	

in Truck, 3/4-ton, 4x4, Command Reconnaissance.







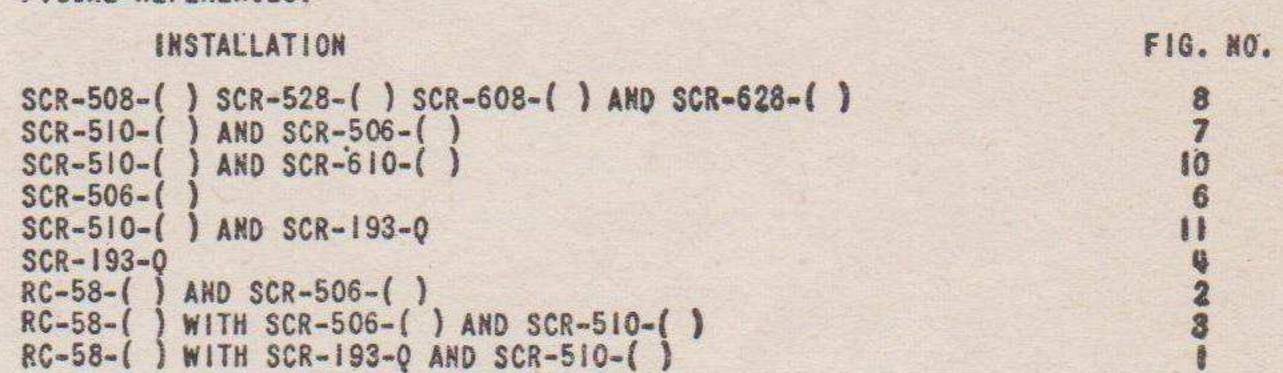
MOTES:

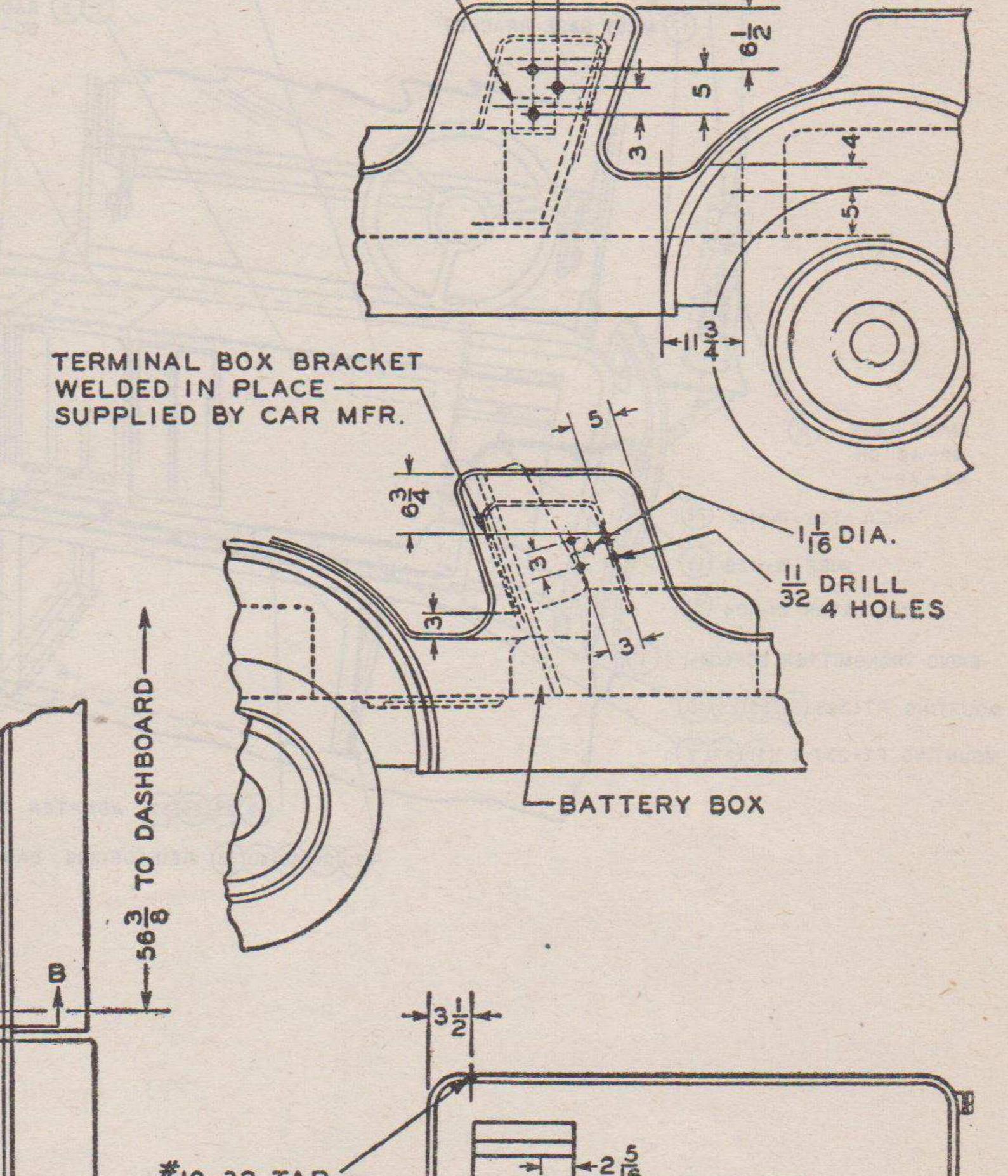
- . (28) AND (29) SHALL BE USED WHEN MAST SECTIONS ARE NOT INSTALLED.
- 2. WIRE W-128 AND WIRE W-146 SHALL BE CUT TO PROPER LENGTH. ENDS SHALL BE TINNED FOR CONNECTIONS.
- 3. (35) (37) (40) AND (45) ARE USED FOR INSTALLATION AND SHALL BE PLACED IN A HEAVY CLOTH BAG PLAINLY AND PERMANENTLY MARKED "THIS BAG CONTAINS SCREWS, NUTS AND LOCKWASHERS FOR INSTALLATION." THIS BAG SHALL BE TIED TO (9)."
- 4. FOR INSTALLATION OF BRACKETS SEE FIG. 13.
- 3. (23) AND (47) SHALL BE FURNISHED AND INSTALLED BY THE MANUFACTURER.
- 6. INTERNAL LEAD-IN ASSEMBLY SHALL BE REMOVED FROM MAST BASE MP-48.
- 7. ENLARGE THE EIGHT HOLES IN LEGS OF MOUNTING FT-285 WITH A 11/32 DRILL, AND SECURE THE MOUNTING TO FLOOR WITH HARDWARE PROVIDED.
- 8. FIGURE REFERENCES:

REINFORCEMENT PLATES

WELDED IN PLACE BY-

CAR MANUFACTURER





9 32 DRILL

SECTION B-B

mio

SEAT

FRONT

32 BHOLES

Emmy

→15 Å

9 DRILL 32 3 HOLES 7

REAR

TL 15991-2

OF FRONT

SEAT TUBE

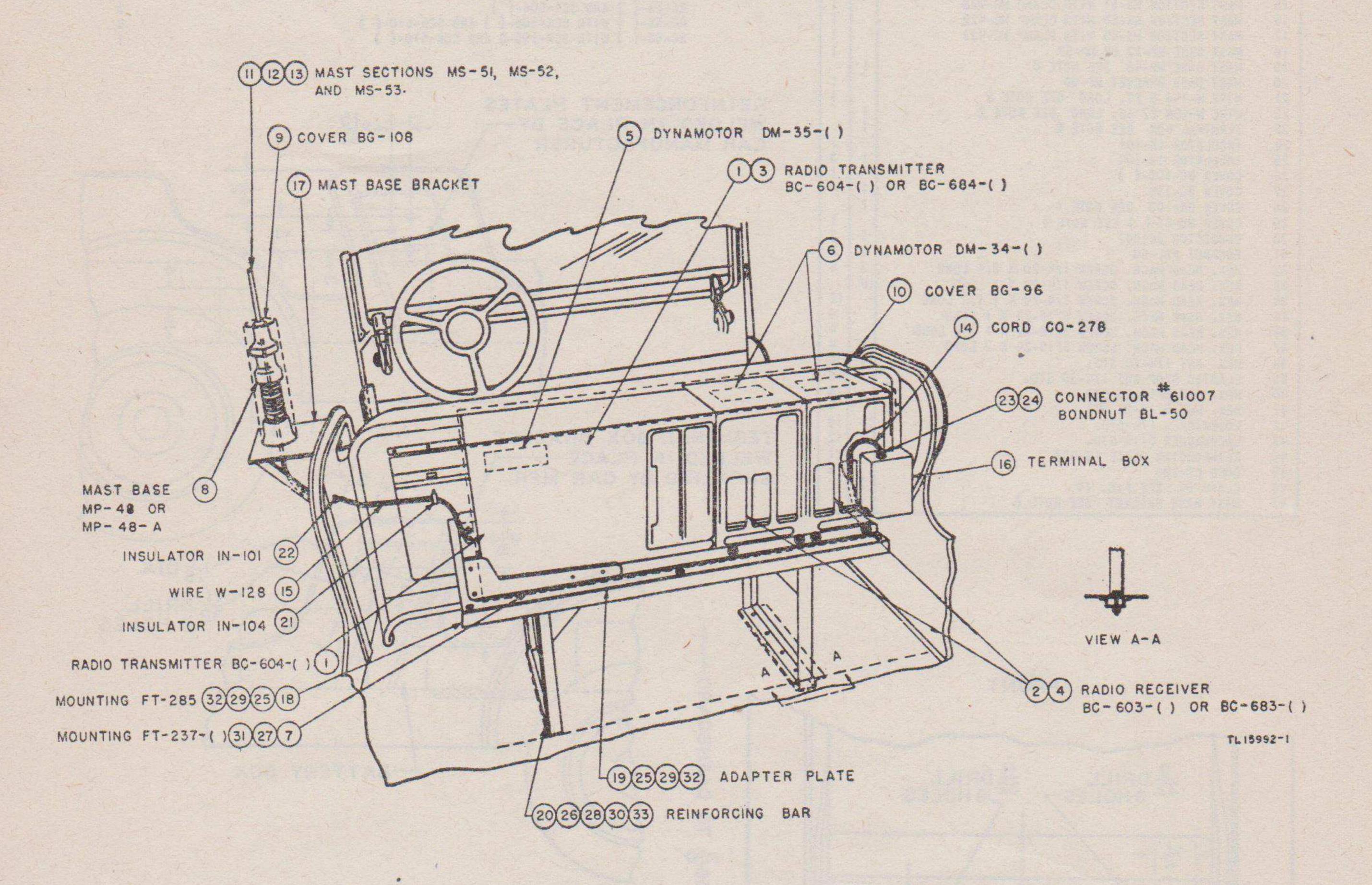
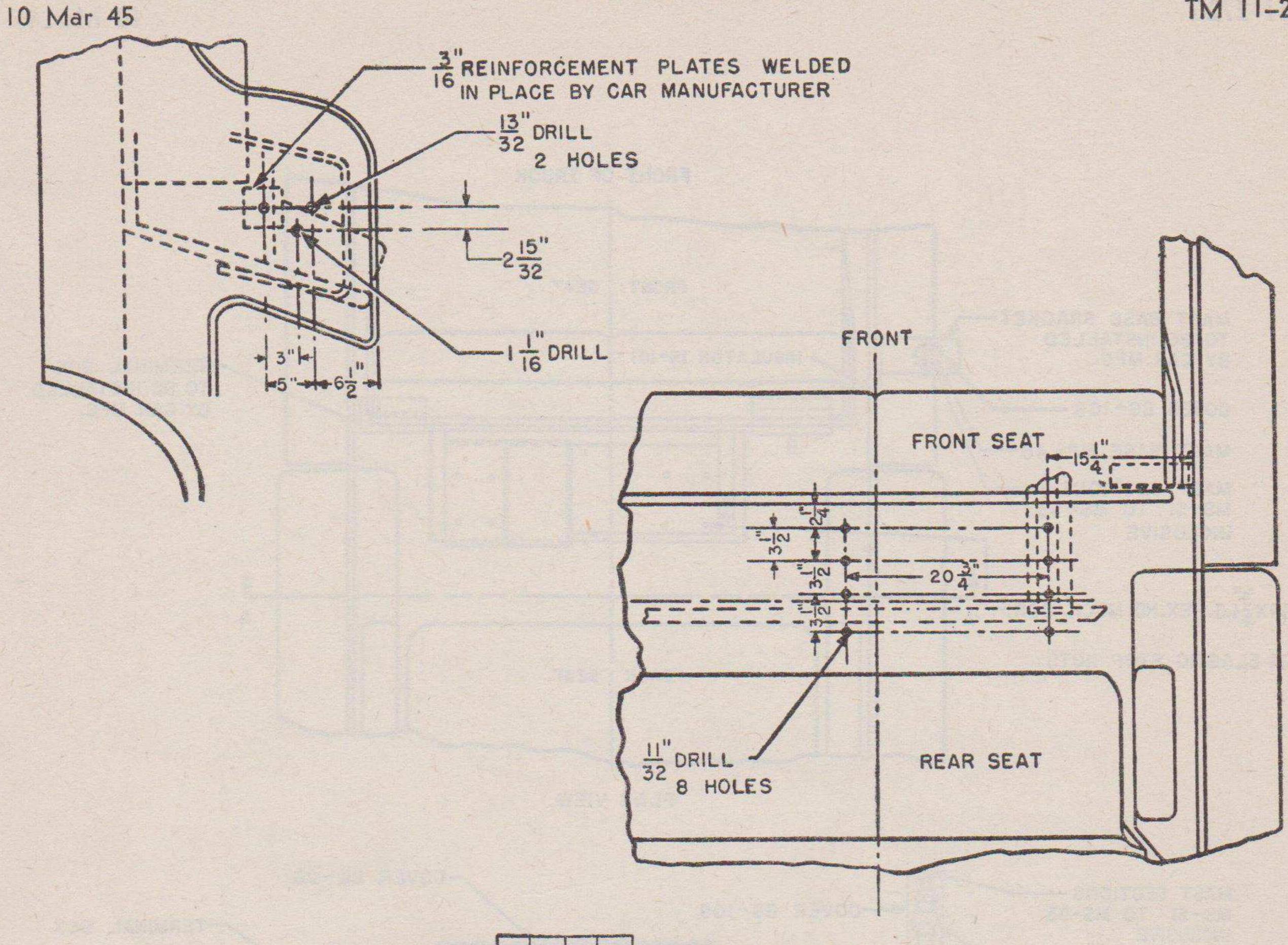


Figure 8. Installation of Radio Set SCR-508-(), SCR-528-(),



SCR-608-(

SET

SET

		RADIO S	RADIO S	AD 10 S	RADIO S	
ITEM NO.	NAME OF ITEM	0.	QU	an. 0.		
1 2 3 4 5 6 7 8 9 10 1 12 3 14 15 6 7 8 9 10 1 12 3 14 15 16 17 8 9 20 21 22 3 24 25 26 27 28 29 30 31 32 33	RADIO TRANSMITTER BC-604-() RADIO RECEIVER BC-603-() RADIO TRANSMITTER BC-684-() RADIO RECEIVER BC-683-() DYNAMOTOR DM-35-() DYNAMOTOR DM-35-() MOUNTING FT-237-() SEE NOTE 3 MAST BASE MP-48 OR MP-48-A COVER BG-96 MAST SECTION MS-51 WITH CLAMP MC-423 MAST SECTION MS-52 WITH CLAMP MC-424 MAST SECTION MS-53 CORD CO-278 WIRE W-128 6 FT. LONG TERMINAL BOX SEE NOTE 8 MOUNTING FT-285 SEE NOTE 8 MOUNTING FT-285 SEE NOTE 9 ADAPTER PLATE SEE NOTE 4 REINFORCING BAR SEE NOTE 4 INSULATOR IN-101 CONNECTOR #61007 BONDNUT #BL-50 HEX. HEAD MACH. SCREW 1/4-20 X 3/4 LONG HEX. HEAD MACH. SCREW 5/16-24 X 1 LONG HEX. HEAD MACH. SCREW 5/16-24 X 2 LONG HEX. HEAD MACH. SCREW 5/16-24 X 2 LONG HEX. NUT 1/4-20 HEX. NUT 1/4-20 HEX. NUT 5/16-24 ELASTIC STOP NUT 5/16-24 LOCKWASHER 1/4 STD. L*OCKWASHER 1/4 STD. L*OCKWASHER 1/4 STD.	-2 -2		-2-2		

NOTES	
1.	SEE MODIFICATION OF INSTALLATIONS OF MAST BASE BRACKET WHEN
	ORIGINAL BRACKET WAS INSTALLED AT 45° PER FIG. 12
2.	FOR INSTALLATION OF BRACKETS SEE FIG. 13
3.	SCREWS, NUTS AND LOCKWASHERS ARE FURNISHED WITH MOUNTING
	FT-237-().
4.	SCREWS, HUTS AND LOCKWASHERS ARE FURNISHED WITH ADAPTER KIT
	MG-471 FOR MOUNTING ADAPTER PLATE, REINFORCING BAR AND
	MOUNTING FT-285.
5.	(26) (28) (30) AND (33) ARE FURNISHED FOR INSTALLATION AND
	SHALL BE PLACED IN A HEAVY CLOTH BAG PLAINLY AND PERMANENTLY
	MARKED "THIS BAG CONTAINS SCREWS, NUTS AND LOCKWASHERS FOR
	INSTALLATION". THIS BAG SHALL BE TIED TO (19).
6.	(9) SHALL BE USED WHEN MAST SECTIONS ARE NOT INSTALLED.
7.	WIRE W-128 SHALL BE CUT TO PROPER LENGTH. ENDS SHALL BE
	TINNED FOR CONNECTIONS.
8.	(16) AND (17) SHALL BE FURNISHED AND INSTALLED BY THE CAR
	MANUFACTURER.
9.	ENLARGE THE EIGHT HOLES IN LEGS OF MOUNTING FT-285 WITH
	A 11/32 DRILL AND SECURE MOUNTING TO FLOOR WITH HARDWARE
	PROVIDED.

TL 15992-2

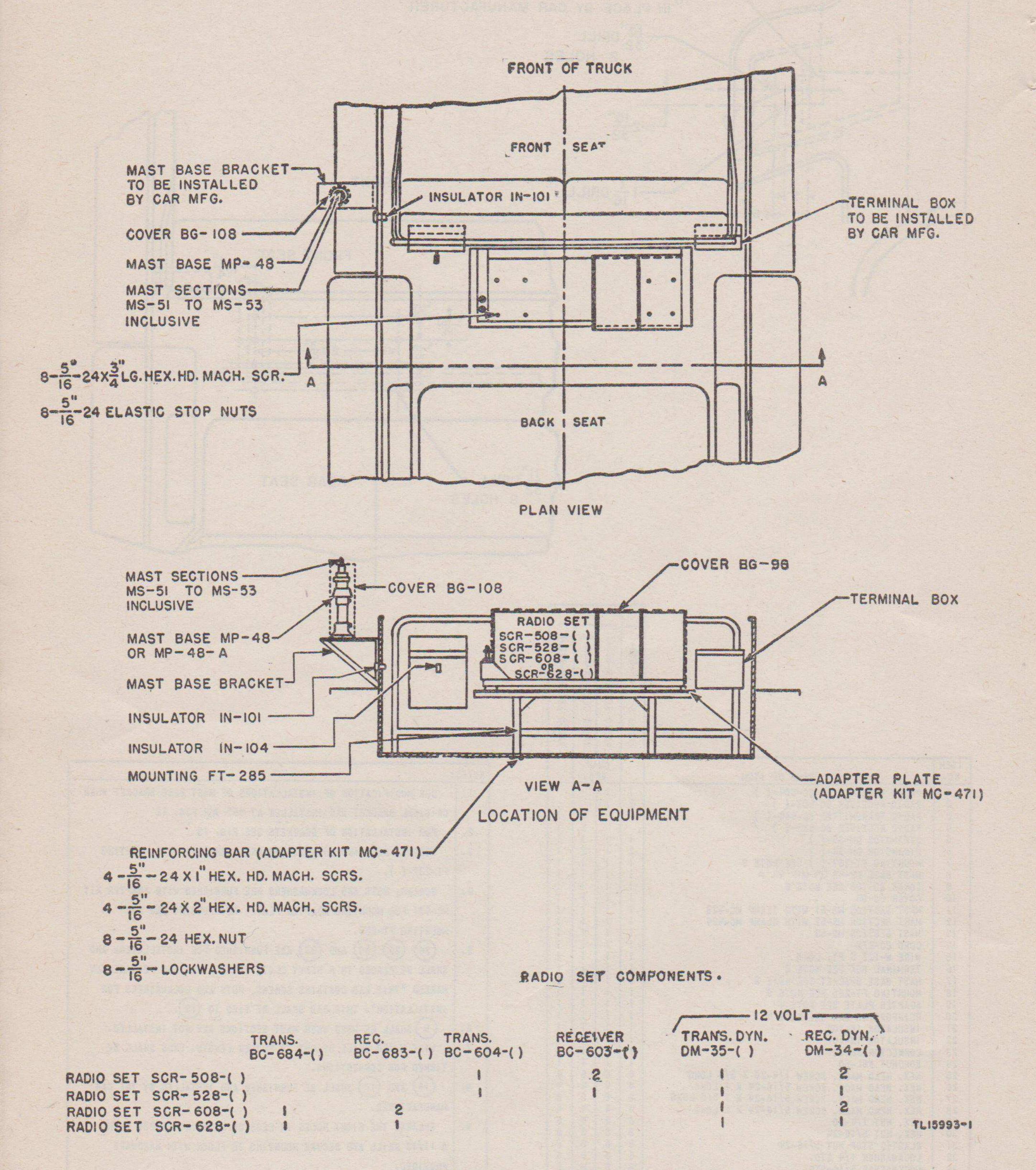
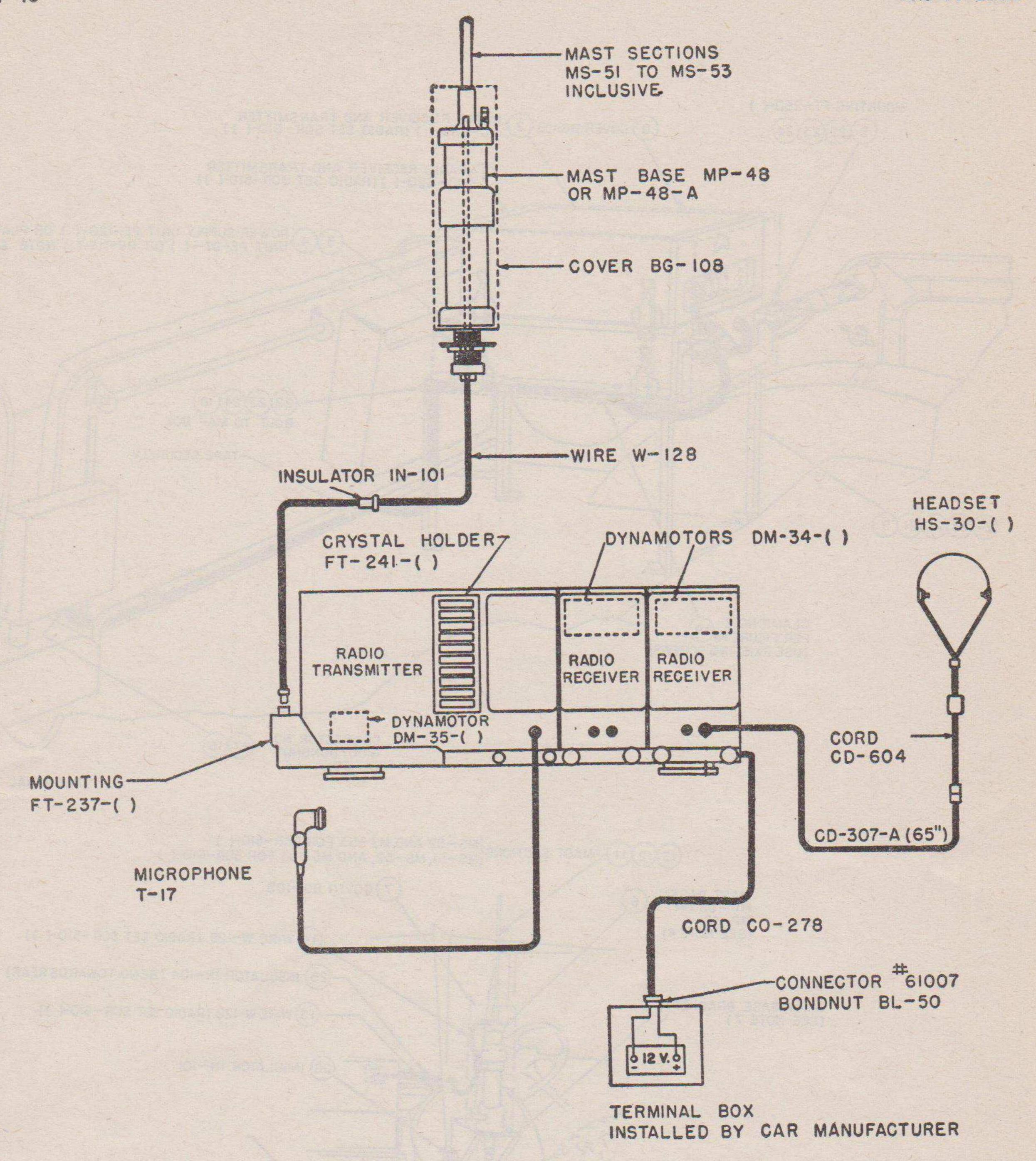


Figure 9. Cording diagram for Radio Sets SCR-508-(), SCR-528-(),



TL15993-2

NOTE:

FOR INSTALLATION OF BRACKETS, SEE FIGURE 13.

SCREWS AND ELASTIC STOP NUTS ARE SUPPLIED WITH MOUNTING FT-237-()

FOR RELOCATION OF MAST BASE BRACKET

SEE FIGURE 12.

ENDS OF WIRE W-128, AFTER BEING CUT TO PROPER LENGTH, SHALL BE TINNED FOR CONNECTING AT BINDING POST.

SCR-608-(), or SCR-628-() in Truck, 34-ton, 4x4, Command Reconnaissance.

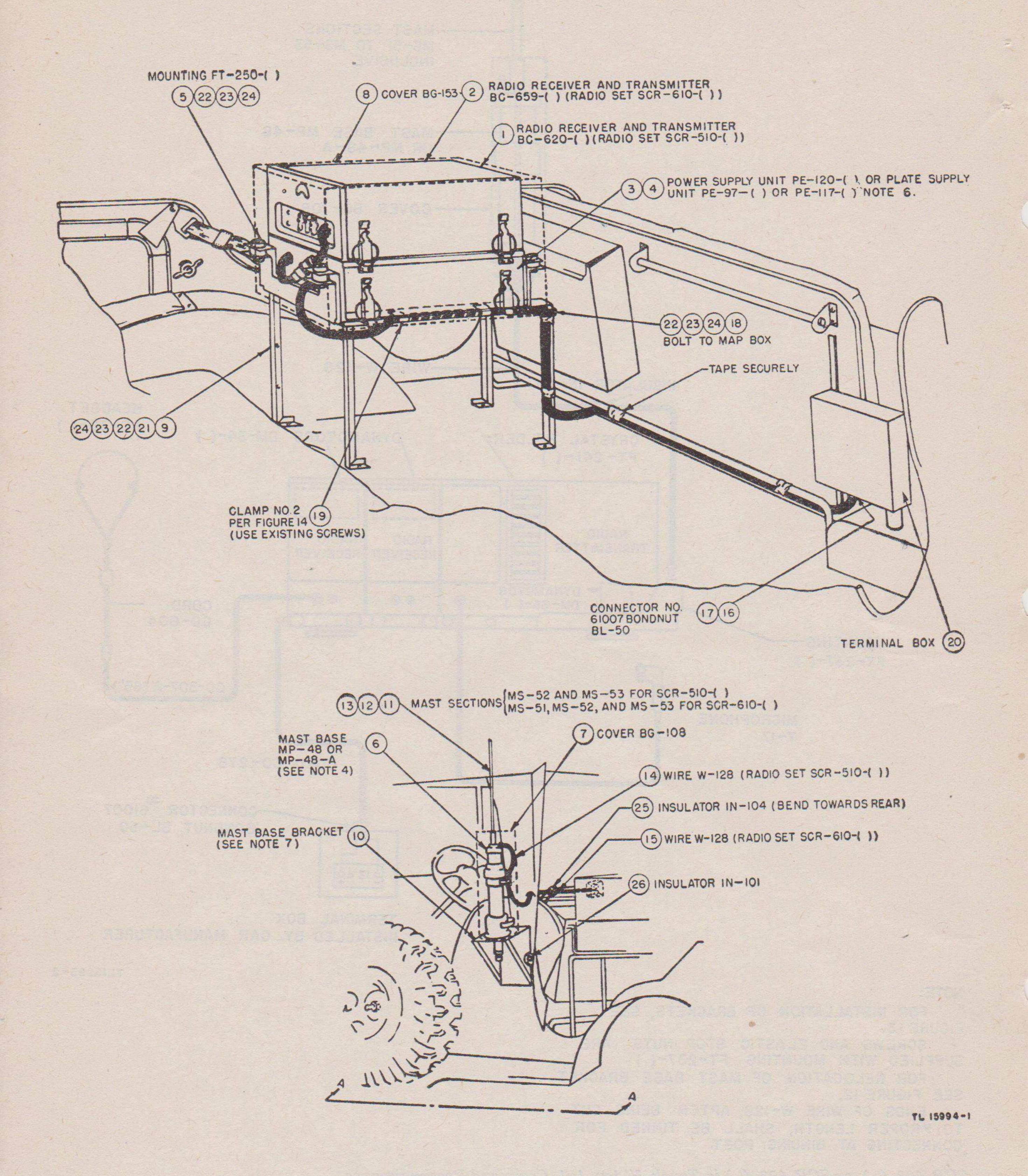
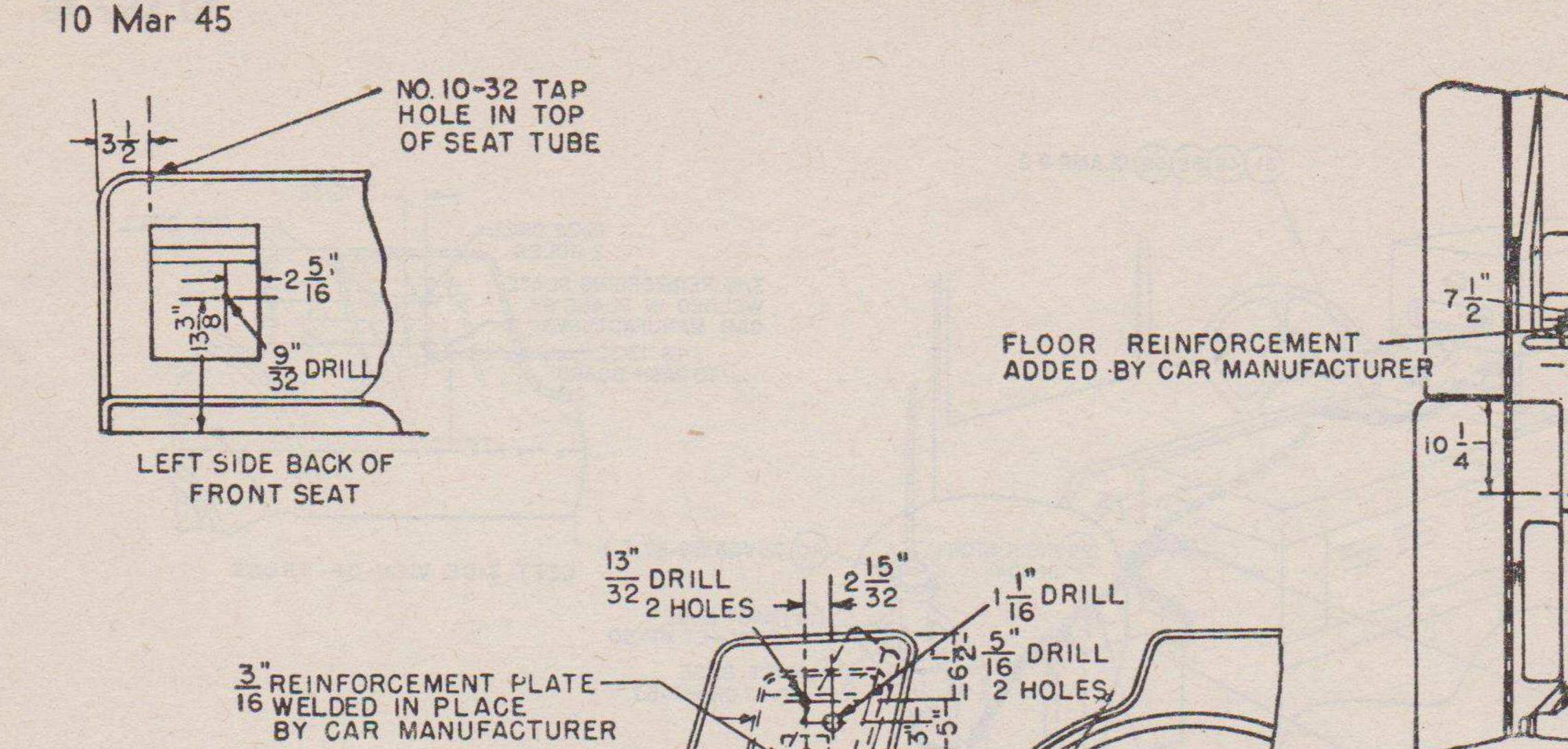


Figure 10. Installation of Radio Set SCR-510-() or SCR-610-()





VIEW A-A LEFT SIDE OF VEHICLE

MOTES:

1. 3 SHALL BE USED WHEN MAST SECTIONS ARE NOT INSTALLED.

46 17" TO DASH BOARD

- 2. (10) AND (20) SHALL BE FURNISHED AND INSTALLED BY THE MANU-FACTURER.
- 3. WIRE W-128 SHALL BE CUT TO PROPER LENGTH. ENDS SHALL BE TINNED FOR ANTENNA CONNECTIONS.
- 4. INTERNAL LEAD-IN ASSEMBLY SHALL BE REMOVED FROM MAST BASE.
- 5. FOR INSTALLATION OF RADIO SET SCR-510-() USE TRANSMITTER AND RECEIVER BC-620-(). FOR RADIO SET SCR-610-() USE TRANSMITTER AND RECEIVER BC-659-().
- 6. FOR INSTALLATION OF RADIO SET SCR-510-() USE PLATE SUPPLY UNIT PE-97-(). FOR RADIO SET SCR-610-() USE PLATE SUPPLY UNIT PE-117-(). POWER SUPPLY UNIT PE-120-() MAY BE SUBSTITUTED.
- 7. FOR RELOCATION OF MAST BASE BRACKET SEE FIG. 12
- 8. FOR INSTALLATION OF BRACKETS SEE FIG. 13
- 9. DRAWING REFERENCES:

UNAWING REFERENCES.	6	
INSTALLATION		FIG. NO.
SCR-508-(), 528-(), 608-() AND SCR-628-(SCR-510-() AND SCR-506-() SCR-510-() AND SCR-610-() SCR-506-() SCR-510-() AND SCR-193-())	8 7 10 6
SCR-193-() RC-58 WITH SCR-506-() AND SCR-510-() RC-58 WITH SCR-506-() RC-58 WITH SCR-193-() AND SCR-510-() A-27 FOR SCR-506-()		3 2 1

500		RAD	-
ITEM	NAME OF ITEM	QU. RE	
1	RADIO RECEIVER AND TRANSMITTER BC-620-() SEE NOTE 5		
2	RADIO RECEIVER AND TRANSMITTER BC-659-() SEE NOTE 5		
3 4 5 6	PLATE SUPPLY UNIT PE-117-() SEE NOTE 6 PLATE SUPPLY UNIT PE-97-() SEE NOTE 6	'	
5	MOUNTING FRAME FT-250-()		
6	MAST BASE MP-48 SEE NOTE 4		
7	COVER BG-108 SEE NOTE I	1	
8	COVER BG-153	11	
9	BRACKET	2	
10	MAST BASE BRACKET SEE NOTE 2		
11	MAST SECTION MS-51 WITH CLAMP MC-423		
12	MAST SECTION MS-52 WITH CLAMP MC-424		
13	MAST SECTION MS-53		
14	WIRE W-128 27 IN. LONG SEE NOTE 3	1.	
15	WIRE W-128 36± 1 IN. LONG SEE HOTE 3		
16	CONNECTOR #61007		
17	BONDNUT BL-50 FLATWASHER I/4-STD.	2	
19	CLAMP 2 PER FIG. 14	12	
20	TERMINAL BOX SEE NOTE 2	lī	
21	HEX. HEAD MACH. SCREW 1/4-20 X 3/4 LONG	2	
22	HEX. HEAD MACH. SCREW 1/4-20 X 1 LONG	8	
23	HEX.NUT 1/4-20	12	1
24	LOCKWASHER 1/4-STD.	12	1
25	INSULATOR IN-104	-	
26	INSULATOR IN-101	11	-

TL 15994 - 2

TM 11-2726

FRONT

FRONT SEAT

REAR SEAT

)-019-

FLOOR PLAN

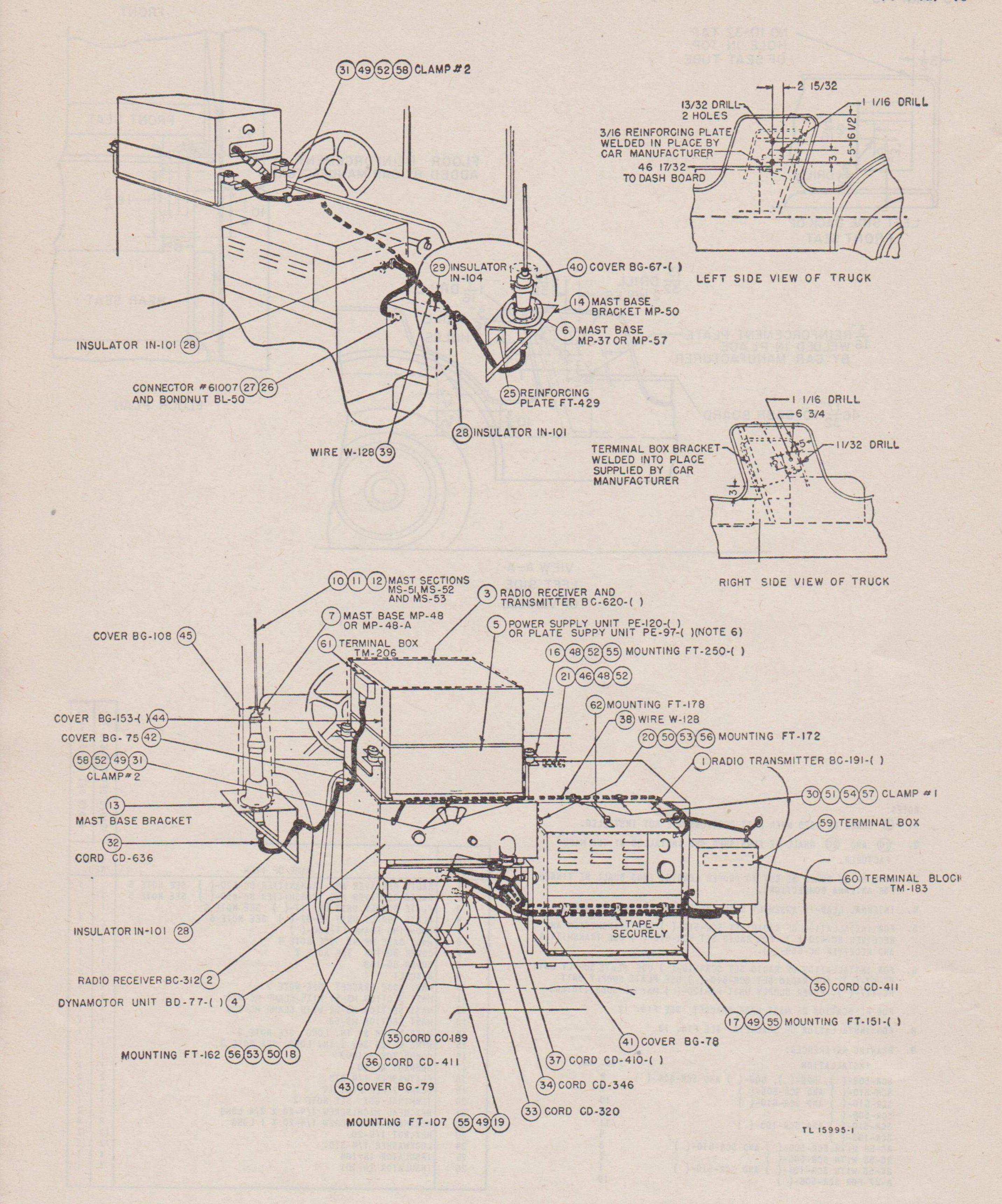
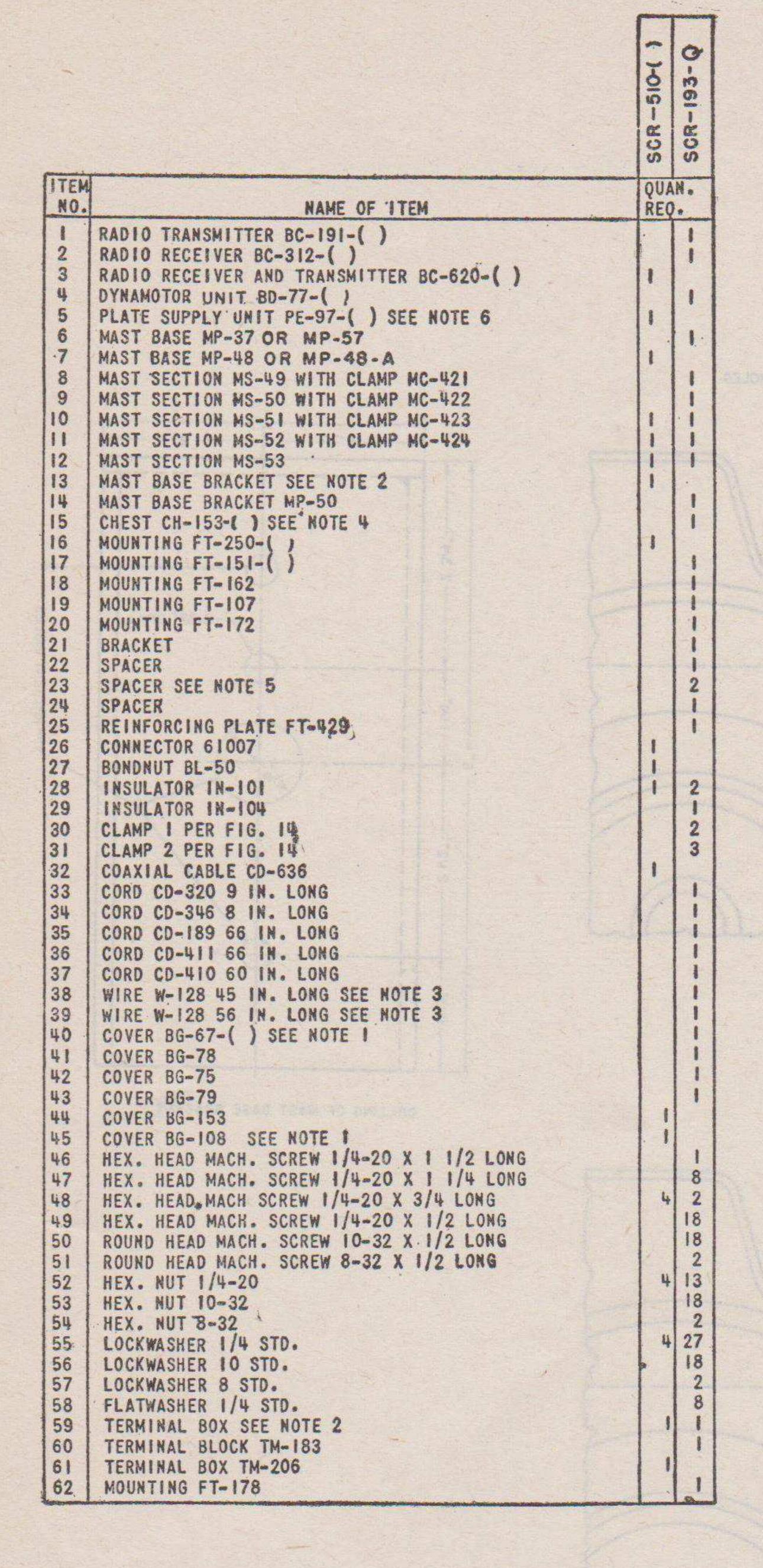
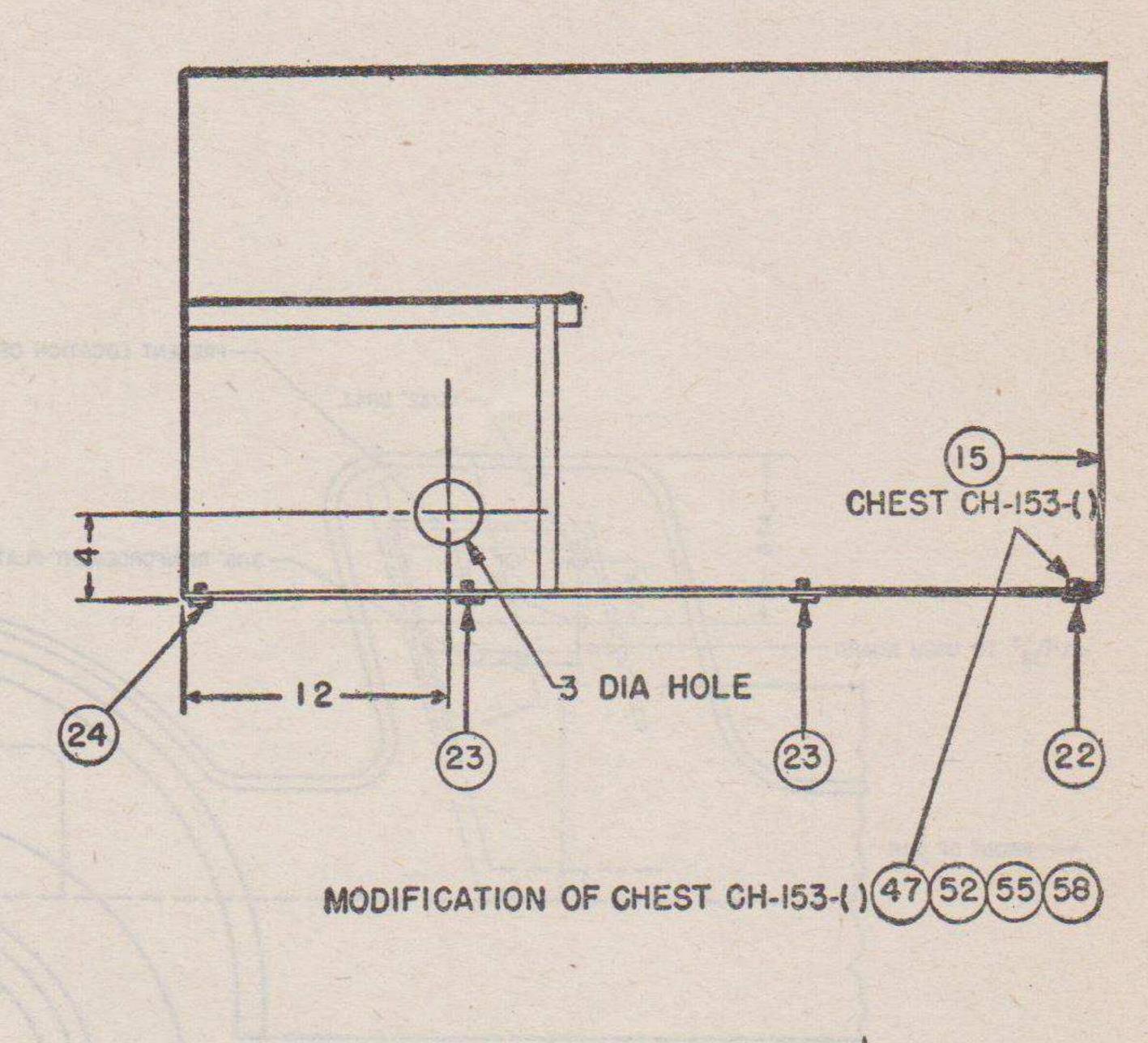
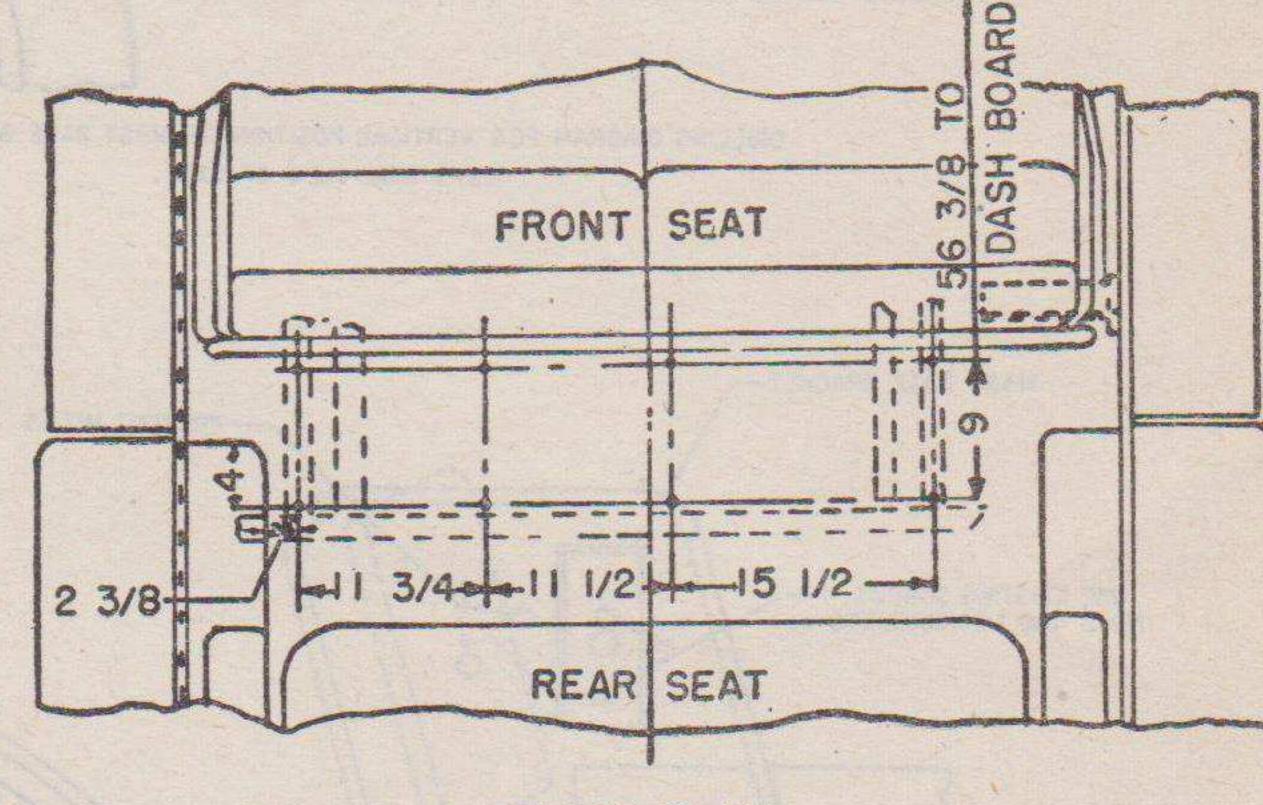


Figure 11. Installation of Radio Sets SCR-510-() and SCR-193-Q







FLOOR PLAN

NOTES:

1. 40 AND 45 SHALL BE USED WHEN MAST SECTIONS ARE NOT INSTALLED.

- 2. 69 AND (13) SHALL BE FURNISHED AND INSTALLED BY THE VEHICLE MANUFACTURER.
- 3. WIRE W-128 SHALL BE CUT TO PROPER LENGTH. ENDS SHALL BE TINNEU FOR CONNECTIONS.
- 4. FOR INSTALLATION OF CHEST SEE FIG. (3)
- 6. 46 47 52 55 58 AND 48 ARE USED FOR INSTALLATION AND SHALL BE PLACED IN A HEAVY CLOTH BAG PLAINLY AND PERMAN-ENTLY MARKED, "THIS BAG CONTAINS SCREWS, NUTS AND LOCKWASHERS FOR INSTALLATION." THIS BAG SHALL BE SECURELY TIED TO BOX.
- 6. POWER SUPPLY UNIT PE-120-() MAY BE SUBSTITUTED FOR PLATE SUPPLY UNIT PE-97-().

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in Truck, 3/4-ton, 4x4, Command Reconnaissance.

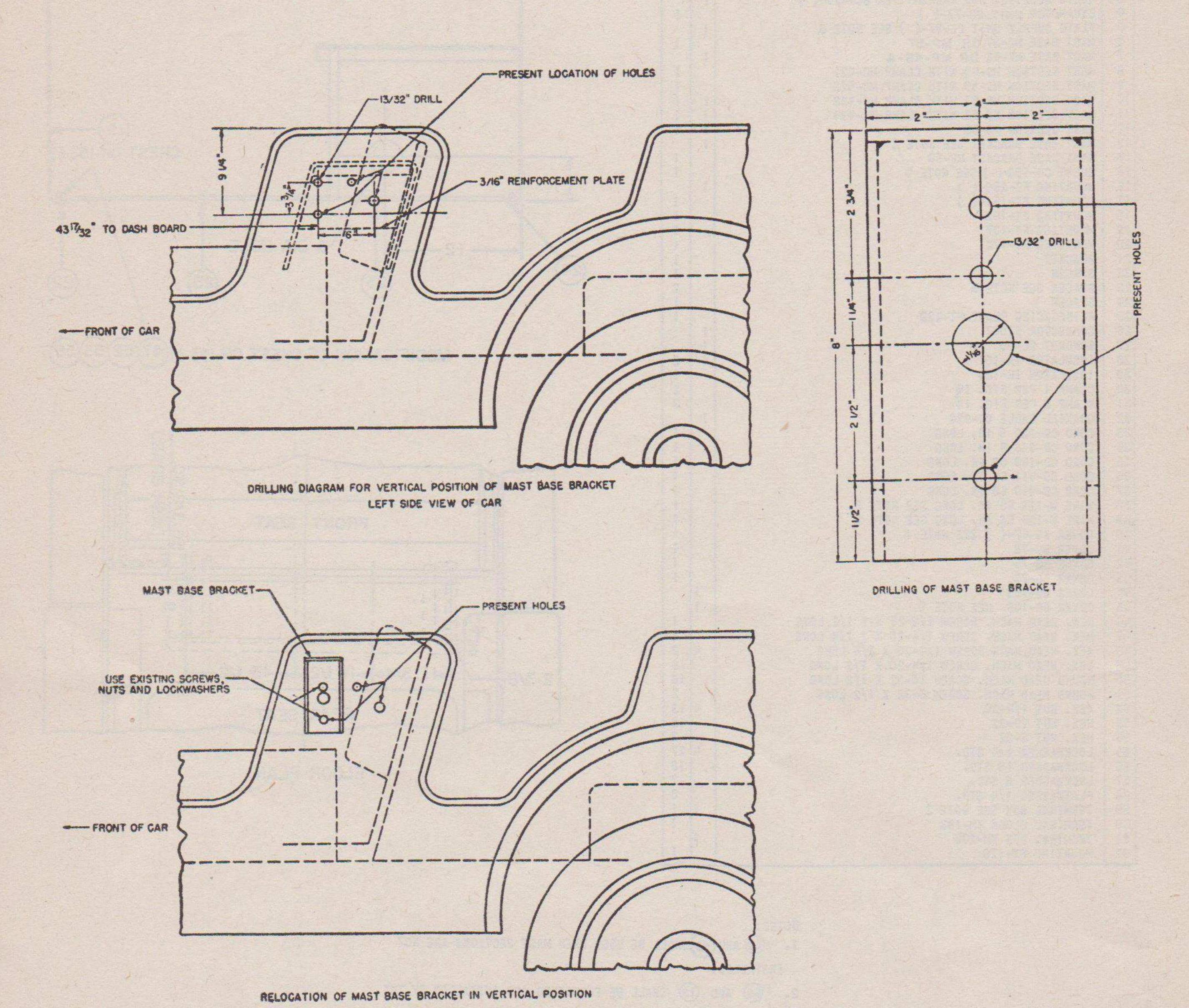


Figure 12. Relocation of mast base bracket in vertical position on Truck, 3/4-ton, 4x4, Command Reconnaissance.

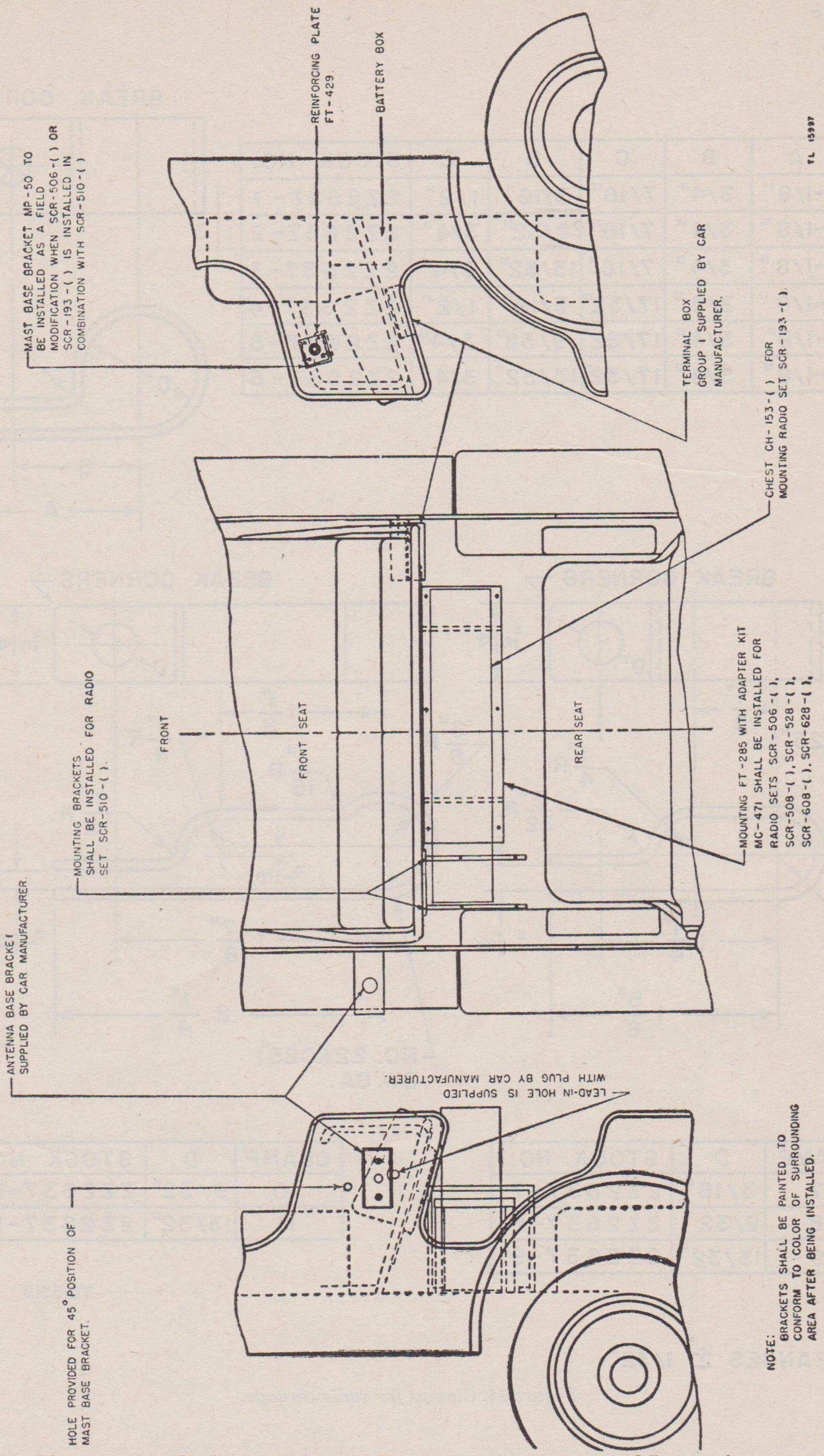


Figure 13. Installation of brackets in Truck, 34-ton, 4x4, Command Reconnaissance.

							BREAK CORNERS
GLAMP	A	В	C	D	E	STOCK NO.	
1	1-1/8"	3/4"	7/16"	CONTROL OF THE PROPERTY OF THE PARTY OF THE	AND DESCRIPTION OF THE PARTY OF	2Z2637-1	II M II
Senteral designation of the second	and the second s	and the state of t	AND DESCRIPTION OF THE PARTY OF	THE RESERVE OF THE PARTY OF THE		272637-2	
The second second second second	Constitutive of the second second second	Name and Address of the Owner, where the Owner, which is the Owne	THE RESIDENCE OF THE PARTY OF T	with the same with the property of the same with the same		222637-3	1 10
The Gentleman State of the State Sta	A MANAGEMENT OF THE PARTY OF TH	STATISTICAL PROPERTY OF THE PARTY OF THE PAR	The same of the sa	NAME AND ADDRESS OF THE PARTY O	Marie Commercial Company	222637-4	
5	1-1/8"	THE SERVICE PROPERTY OF THE PARTY OF THE PAR	Contraction of the section of the se	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	THE RESIDENCE OF THE PARTY OF THE PARTY.	222637-5	/ L''R.
6	1-1/8"	THE RESIDENCE OF THE PROPERTY	The second secon	THE RESIDENCE OF THE PROPERTY OF THE PARTY O	PROGRAMME TO THE PROGRAMME OF THE PROGRAMME.	272637-6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NO.22(. -BW.GA	025")	REAK C	ORNER III	"R. 3"R. 3"R.	- 3"R.	NO. 22 (.025") BW. GA.	EAK CORNERS 18 - 18 - 18 - 18 - 18 - 18 - 18 -

CLAMP	D	STOCK NO.
7	3/16"	2Z2637-7
8	9/32"	2Z2637-8
9	13/32"	2Z2637-9

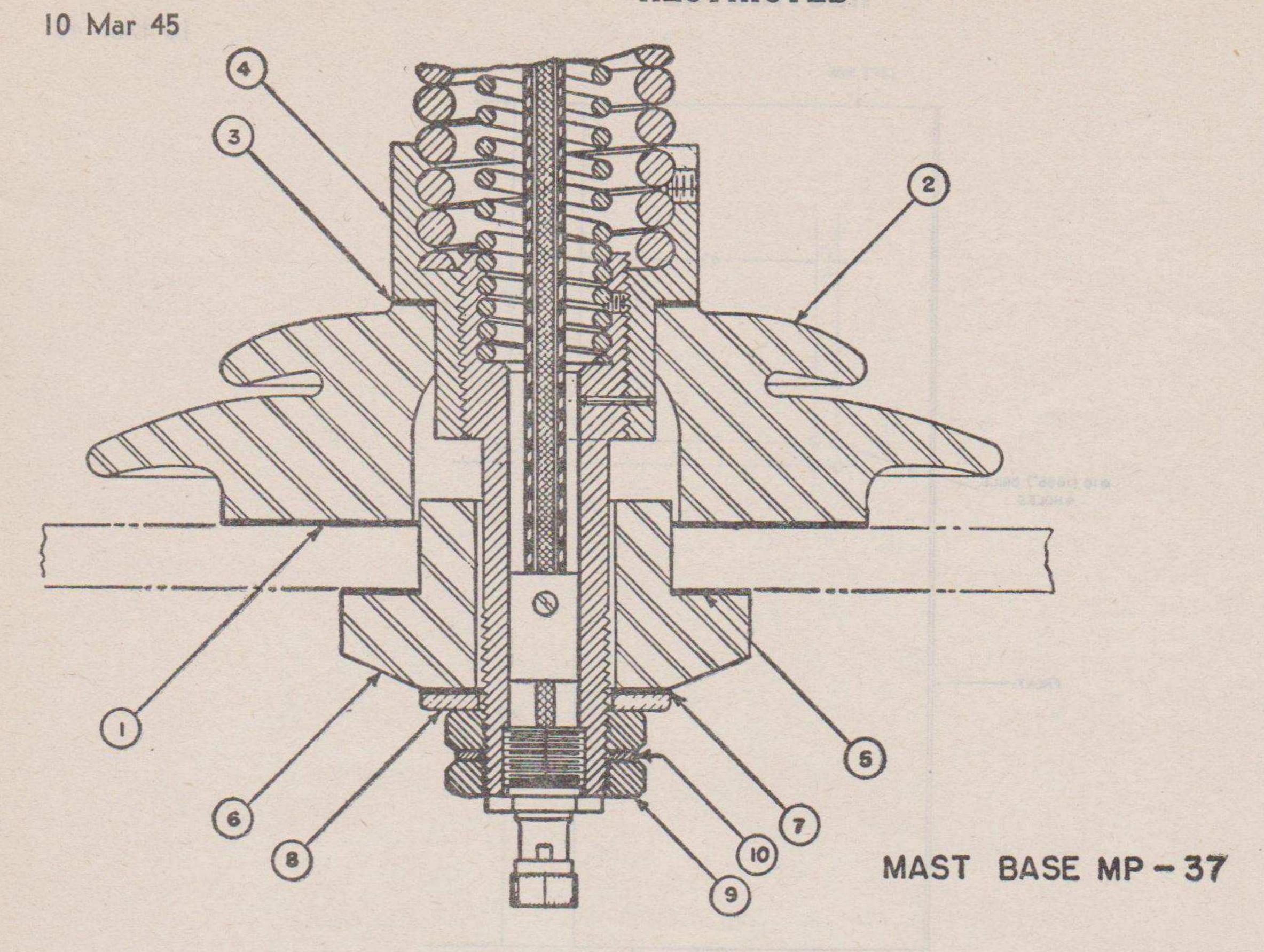
CLAMP	D	STOCK	NO.
10	9/32"	22263	7-10
II	13/32"	22263	7-11

TL13319

NOTE:

TOLERANCES ± 1/32"

Figure 14. Clamps for radio cordage.



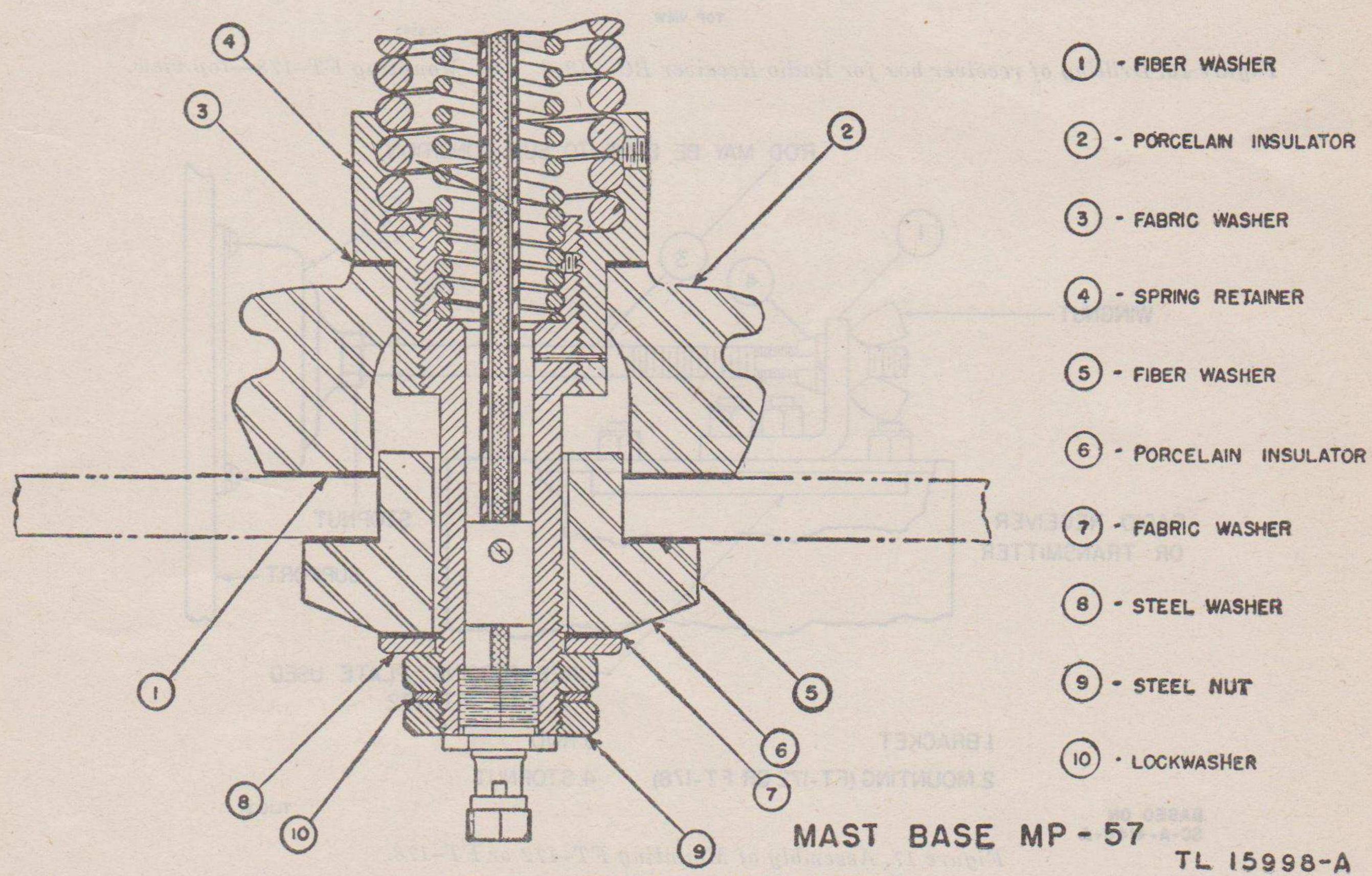


Figure 15. Mast Base MP-37 or MP-57.

19330 M

49

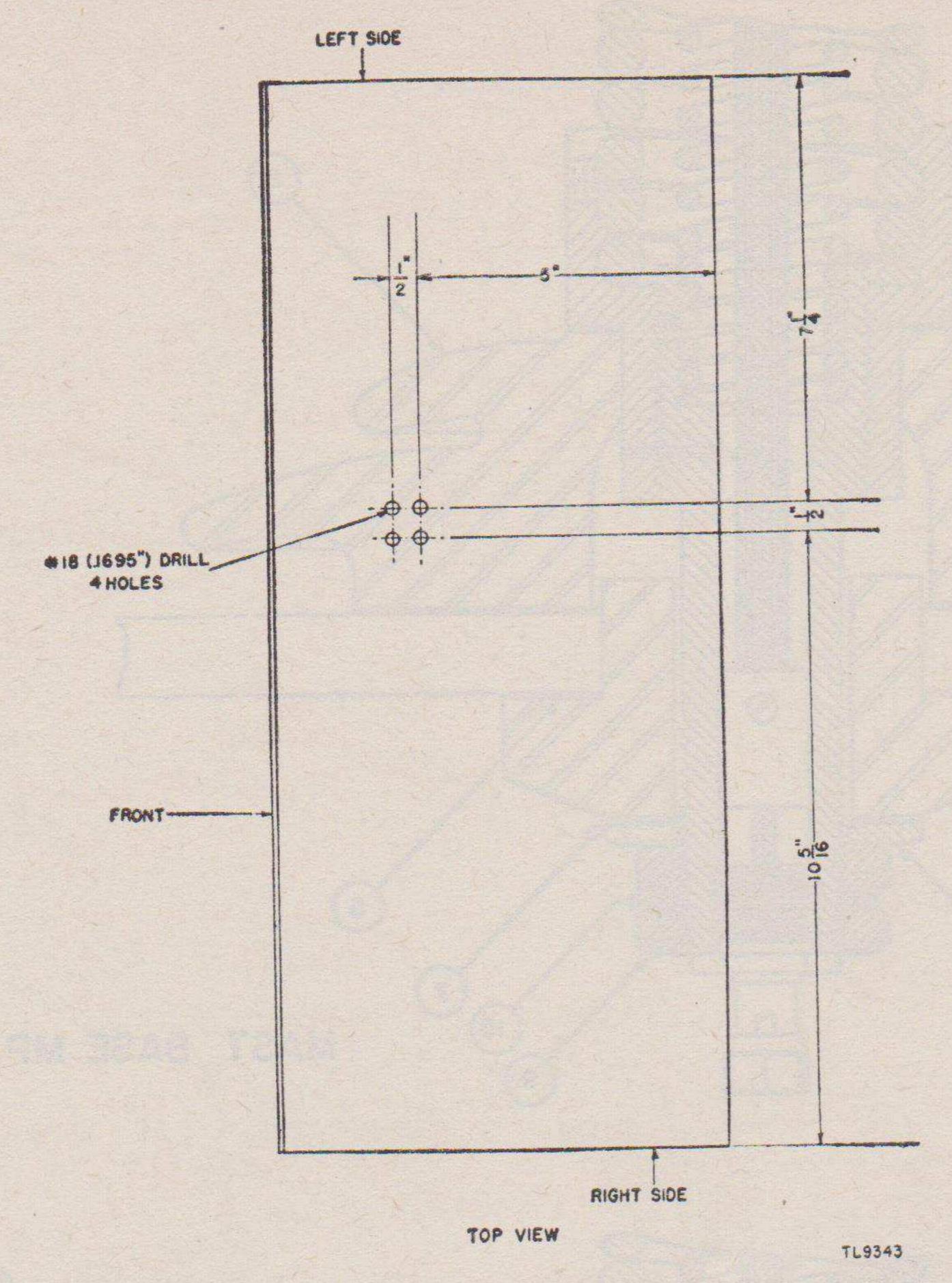


Figure 16. Drilling of receiver box for Radio Receiver BC-312-() for Mounting FT-178-top view.

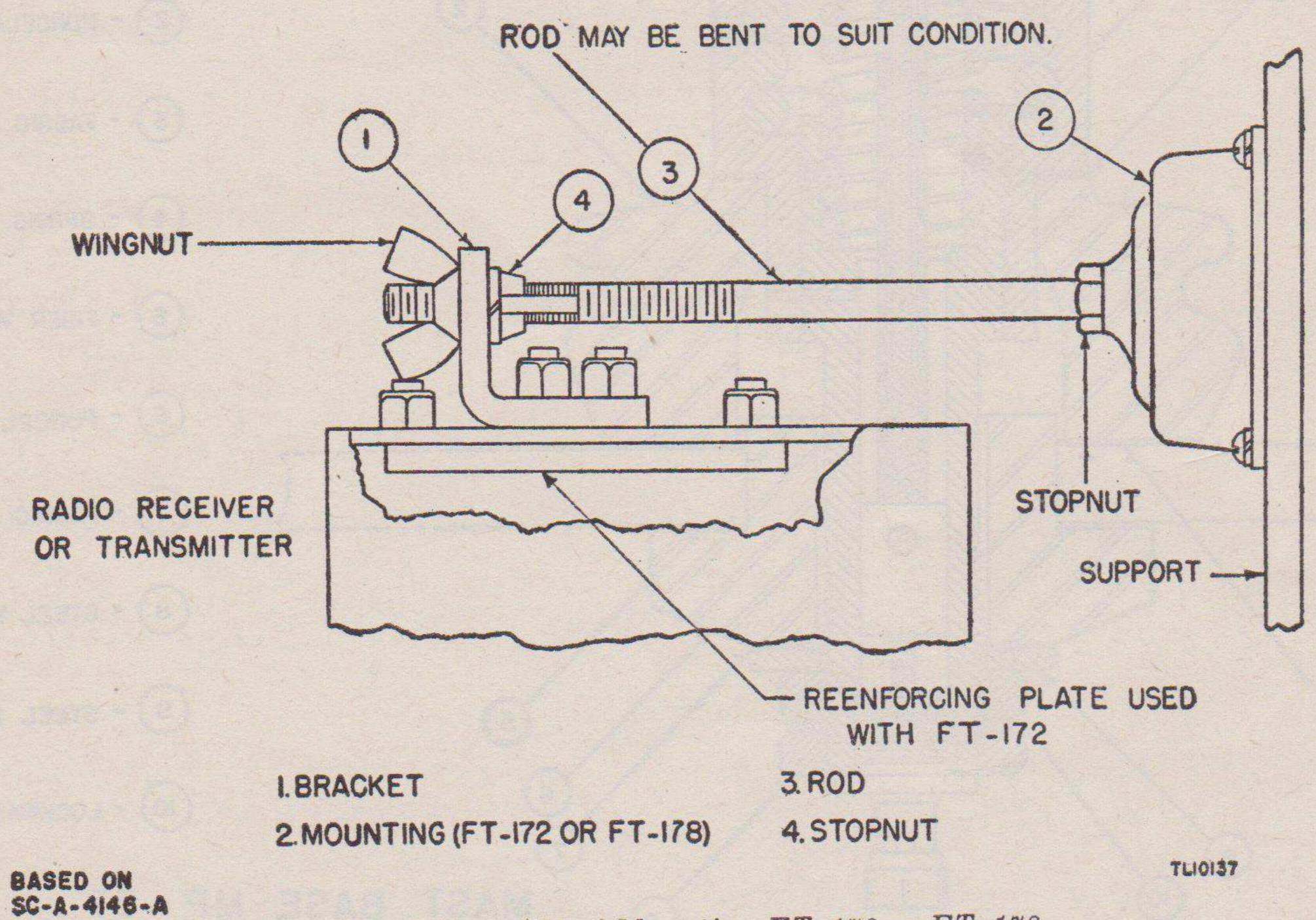
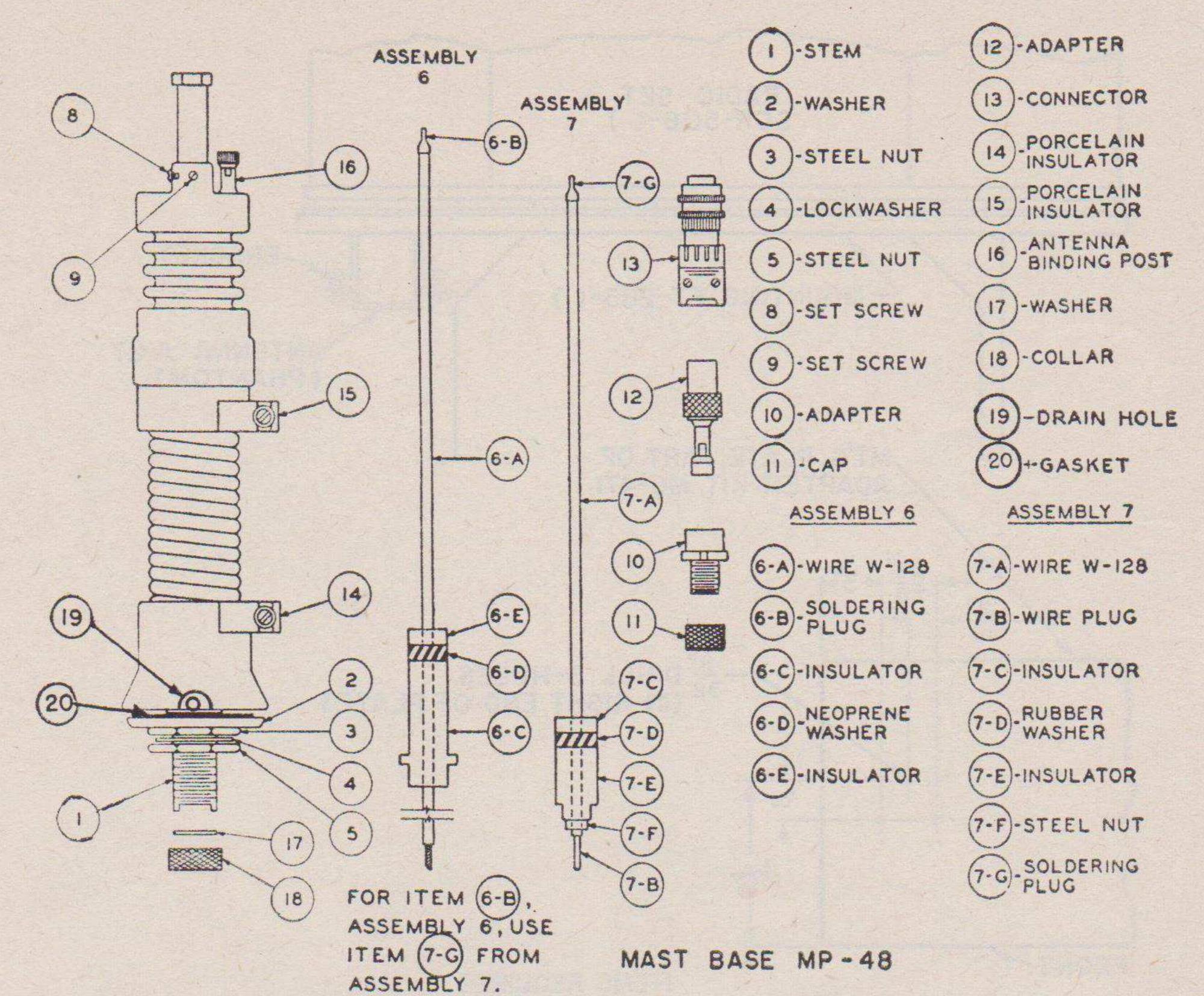


Figure 17. Assembly of Mounting FT-172 or FT-178.



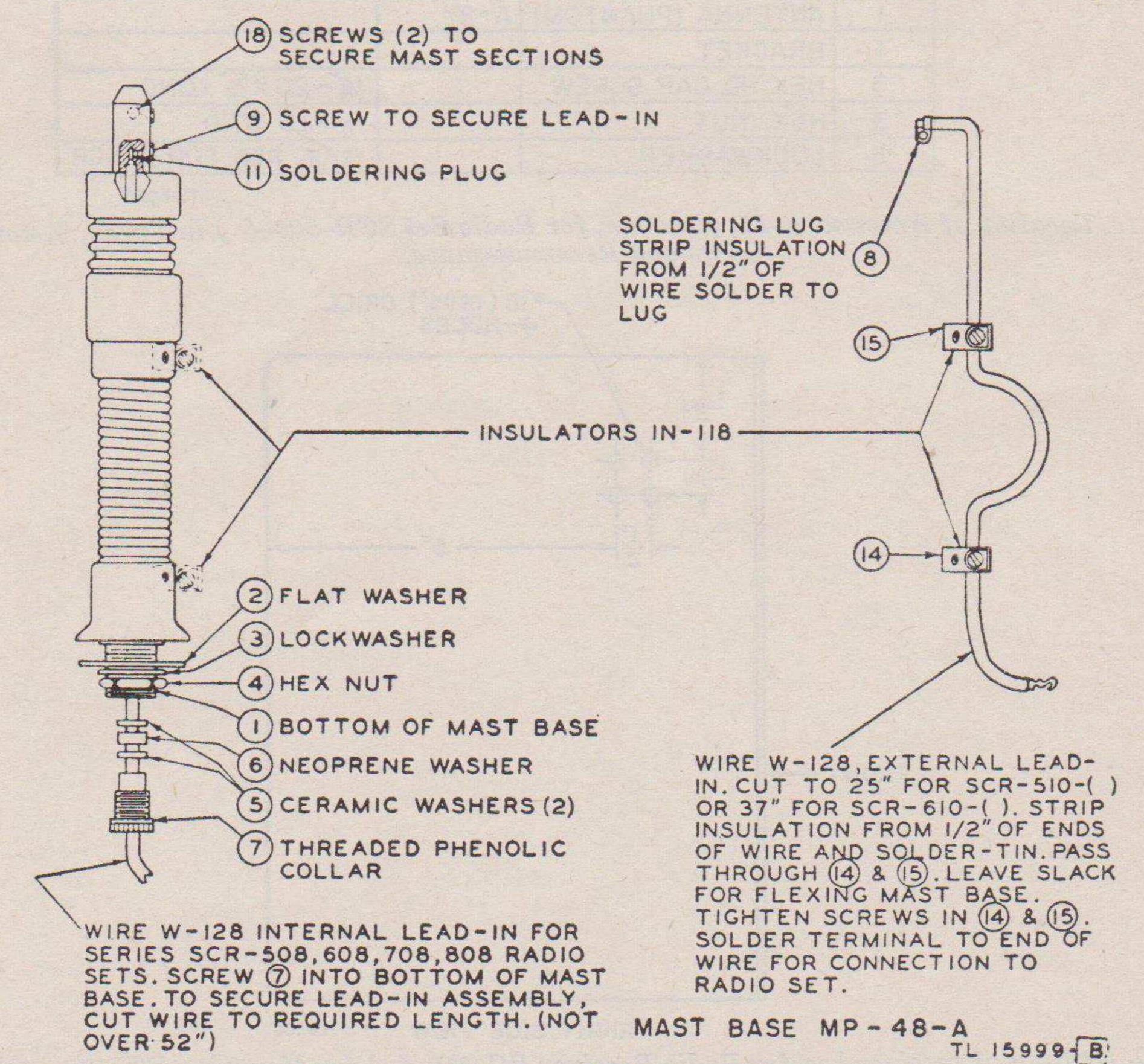


Figure 18. Mast Base MP-48 or MP-48-A.

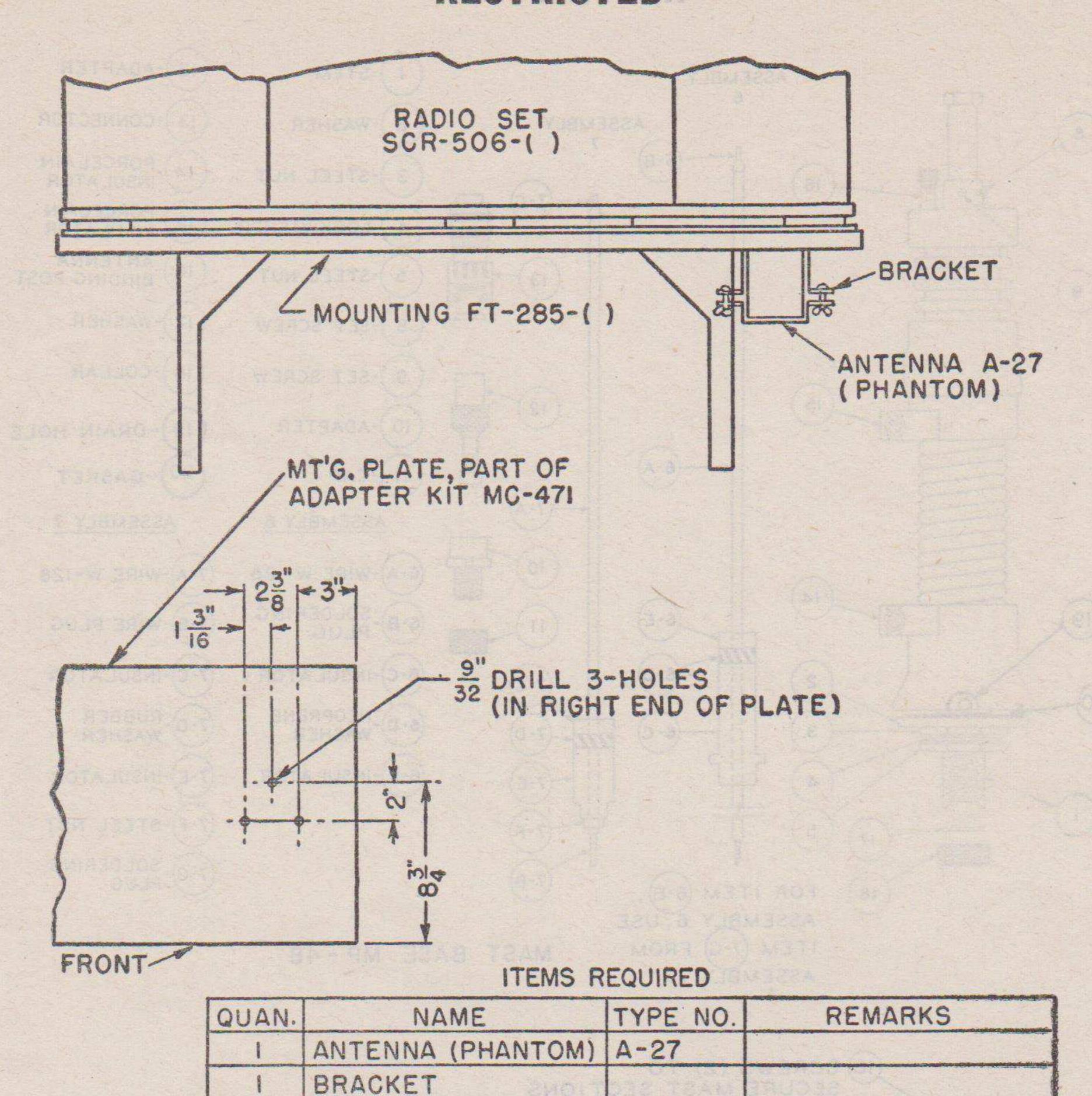


Figure 19. Location of Antenna A-27, phantom, for Radio Set SCR-506-() in Truck, ¾-ton, 4x4, Command Reconnaissance.

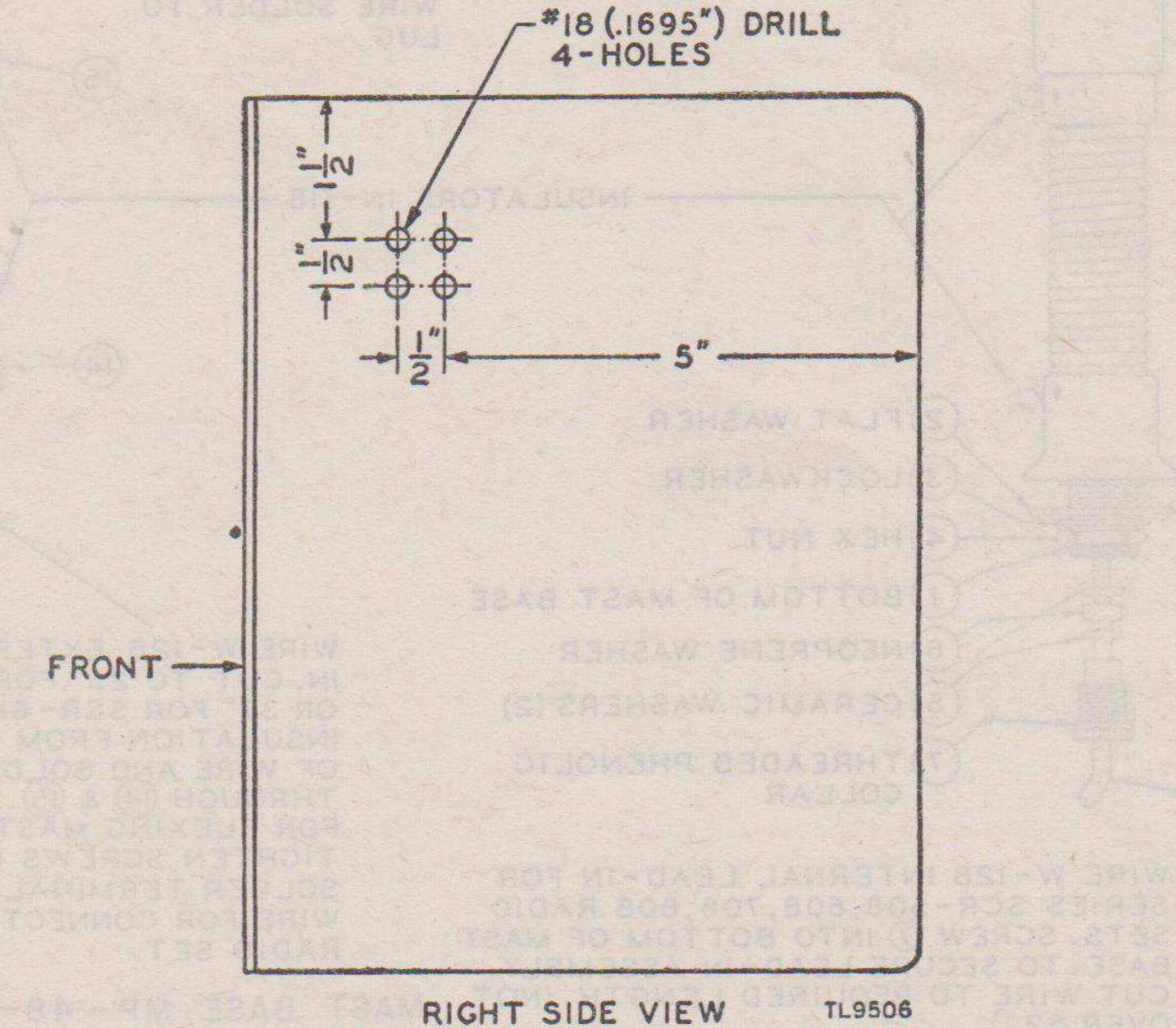
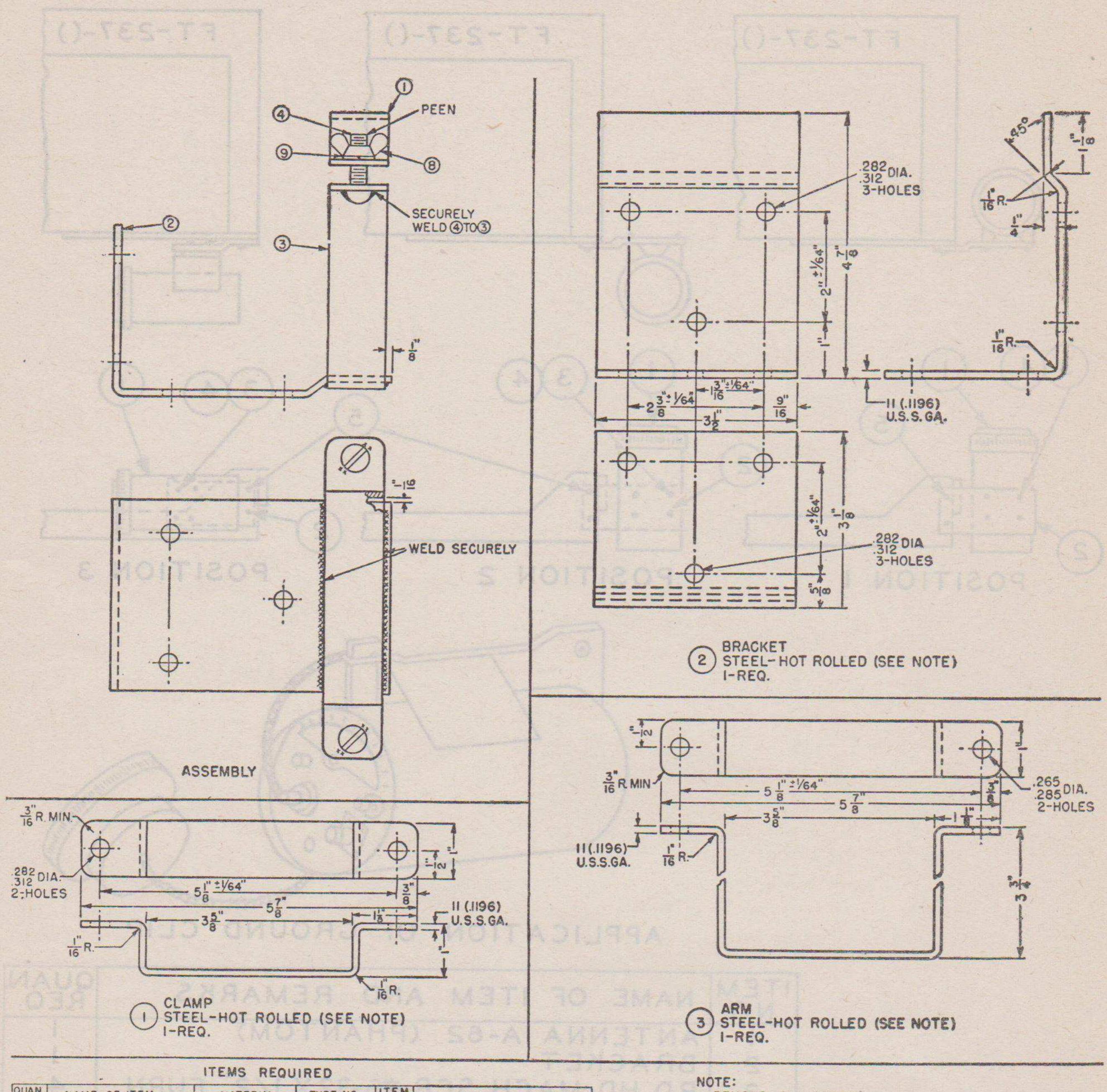


Figure 20. Drilling of receiver box for Radio Receiver BC-312-() for Mounting FT-178-side view.



QUAN. REQ.	NAME OF ITEM	MATERIAL	TYPE NO.	NO.	REMARKS
6	LOCKWASHER		SEE NOTE	9	S.A.E. REG. FOR 14 SCREW
2	WING NUT	HOLL BUT STATE		8	1/4-20
4	HEX. NUT	STEEL ELECTRO- GALVANIZED		7	1/4-20 STD.
4	HEX. HD. CAP SCREW		SEE NOTE	6	1/4-20 × 3/4 LONG
4	HEX. HD. CAP SCREW		CALTAITIE	V	5
2	RD. HD. MACH. SCREW			4	1/4-20 X I LONG
1	ARM			3	
1	BRACKET	STEEL		2	
1	CLAMP				

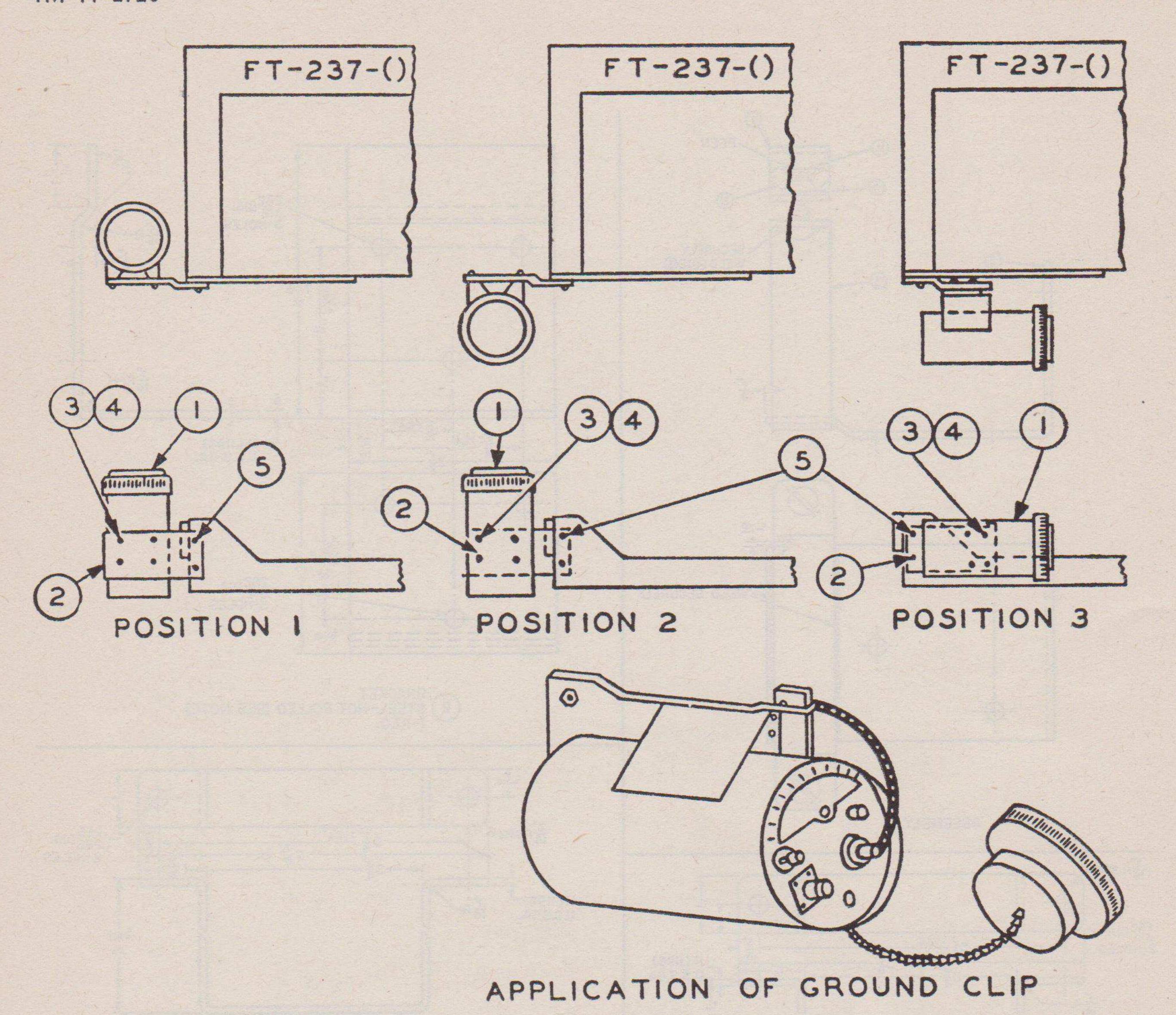
BASED ON SC-D-7367

REMOVE ALL BURRS.

AFTER WELDING (284) TO (3, (1), (284) SHALL BE
BONDERIZED AND THEN GIVEN ONE SPRAY COAT OF METAL
PRIMER, CLASS IOI, AND ONE SPRAY COAT OF SEMI-GLOSS
OLIVE DRAB BAKING ENAMEL, CLASS 440. TOUCH UP
HEADS OF (4) TO MATCH SURROUNDING SURFACE. ALL
PAINTS AND METHODS OF APPLICATION SHALL BE IN
ACCORDANCE WITH ORDNANCE TENTATIVE SPECIFICATION
TAC ES-NO. 680.

(5, 6, 7 & 4 OF (9) ARE USED FOR INSTALLATION AND SHALL BE PLACED IN A HEAVY CLOTH BAG PLAINLY AND PERMANENTLY MARKED "THIS BAG CONTAINS SCREWS NUTS AND LOCKWASHERS FOR INSTALLATION. SPARES ARE INCLUDED IN QUANTITIES." THIS BAG SHALL BE TIED TO THE BRACKET

Figure 21. Bracket for Antenna A-27, phantom.



ITEM NO.	NAME OF ITEM AND REMARKS	QUAN. REQ.
	ANTENNA A-62 (PHANTOM)	
2	BRACKET	
3	RD. HD. MACH. SCR.#6-32X 1/2" FURN.	4
	WITH *I	
4	LOCKWASHER#6 STD. FURN. WITH"	4
5	RD. HD. MACH. SCR. # 10-32 X 5/8"	2

NOTE:

I. FOR ALL POSITIONS USE TIP OF BRACKET TO RECEIVE THE GROUND CLAMP OF ANTENNA A-62.

2. USE LONGER SCREW (5) WHEN INSTALLING BRACKET (2)
ON MOUNTING FT-237-() AND RE-APPLY TOOTH-TYPE LOCKWASHERS.

Figure 22. Antenna A-62, phantom, on Mounting FT-237-().

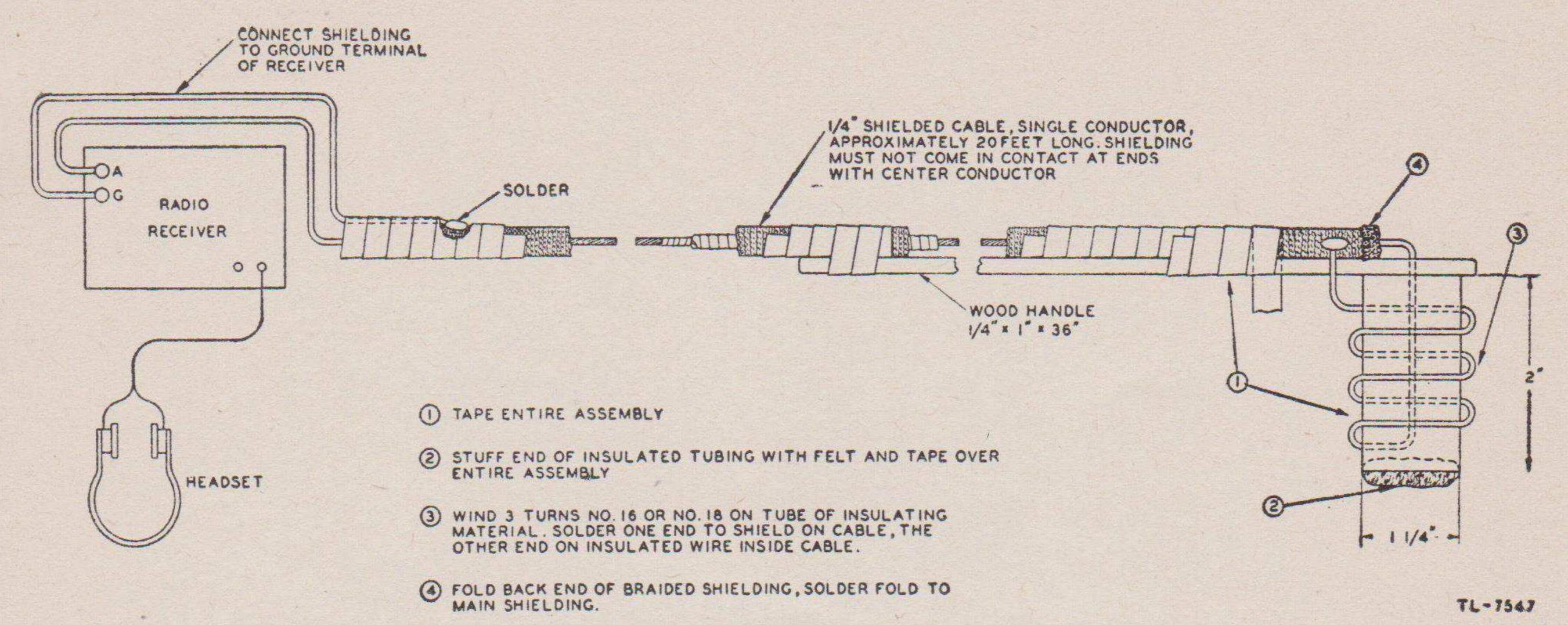


Figure 23. Probe antenna.

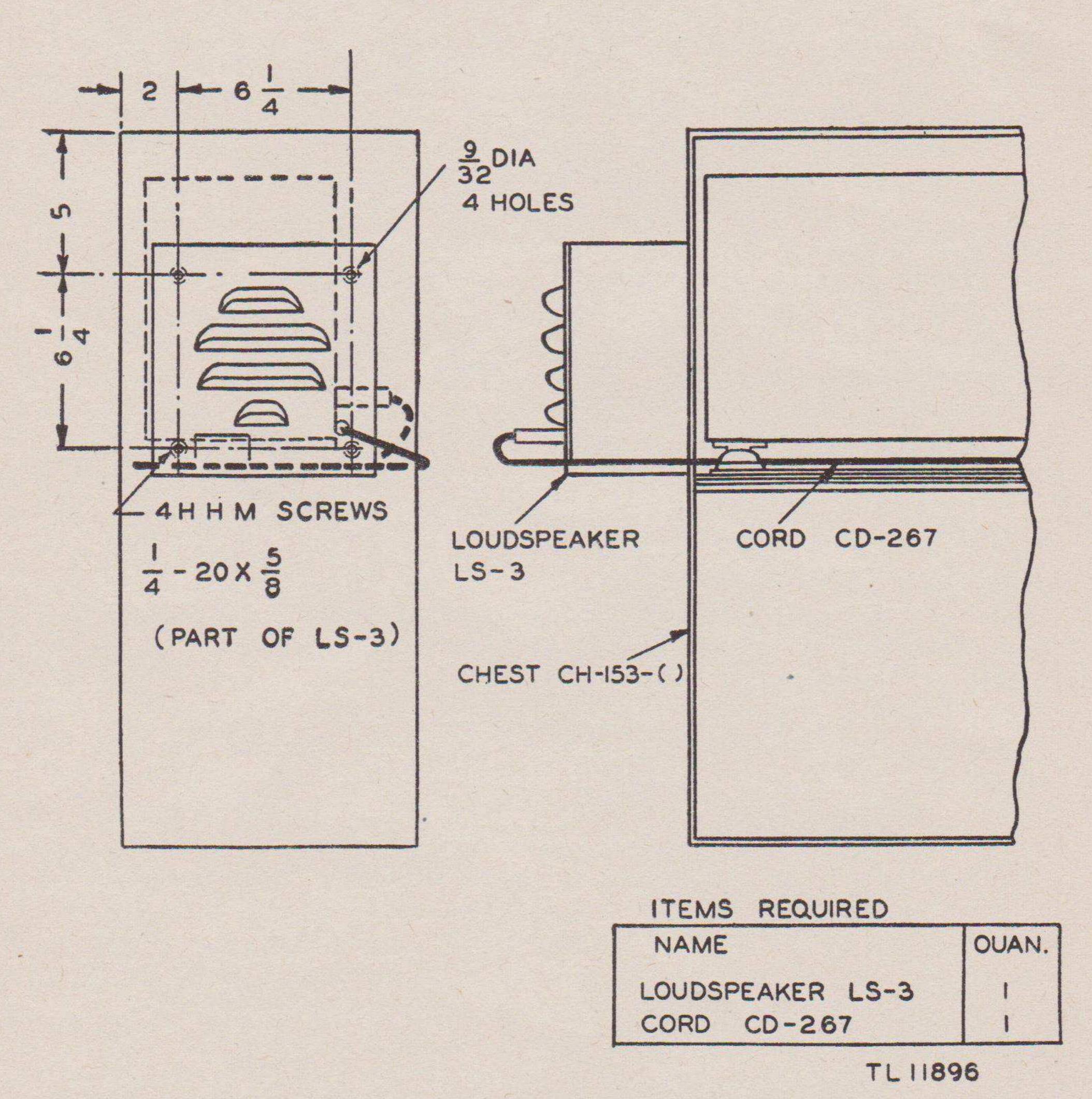


Figure 24. Location of Loudspeaker LS-3 for Radio Set SCR-193-() in Truck, ¾-ton, ¼x4, Command Reconnaissance.

