

# INSTALLATION INSTRUCTIONS for ALTERNATOR NOISE SUPPRESSION KIT 19A121924-G1

(for use with TPL 10-Watt Speaker/Amplifier EZ-11-A)

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## DESCRIPTION

Noise Suppression Kit 19A121924-G1 is normally used with 10-watt TPL Speaker/Amplifier EZ-11-A to prevent objectionable alternator noise from the speaker. The kit includes an electrolytic capacitor and a choke to modify Solenoid Assembly KC-12-B, and a capacitor assembly to modify receiver Audio Board EA-10-A or EA-10-B. This kit can also be used effectively in other TPL installations where severe alternator noise is causing interference.

### NOTE

Use of this kit with TPL Audio Board 4EA10A10, Revision V, is not recommended.

## INSTALLATION PROCEDURE

When installing a TPL mobile radio with the Alternator Noise Suppression Kit, the standard installation instructions for the radio should be followed except that the fused ignition switch wire is not used. Install the noise suppression kit as follows:

**NOTE**  
REVERSE POLARITY OF C1  
IN POSITIVE-GROUND  
BATTERY SYSTEMS.

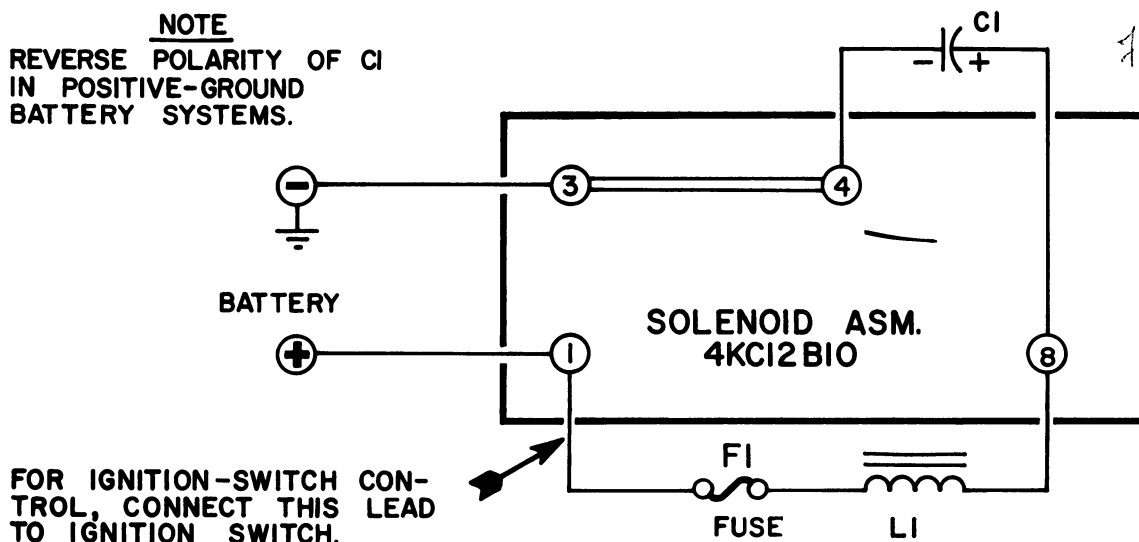


Figure 1 - Modification of Solenoid Assembly by Addition of C1 and L1

1. Mount capacitor C1 on the vehicle near the solenoid assembly, as shown in Figure 2. For negative-ground vehicles, connect the yellow lead to terminal #4 on the solenoid assembly and the red lead to terminal #8.

For positive-ground vehicles, connect the yellow lead to terminal #8 on the solenoid assembly and the red lead to terminal #4.

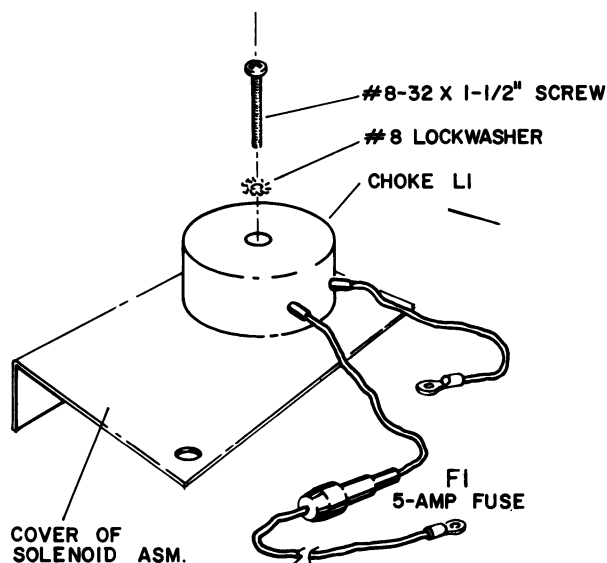


Fig. 2 - Installation of C1

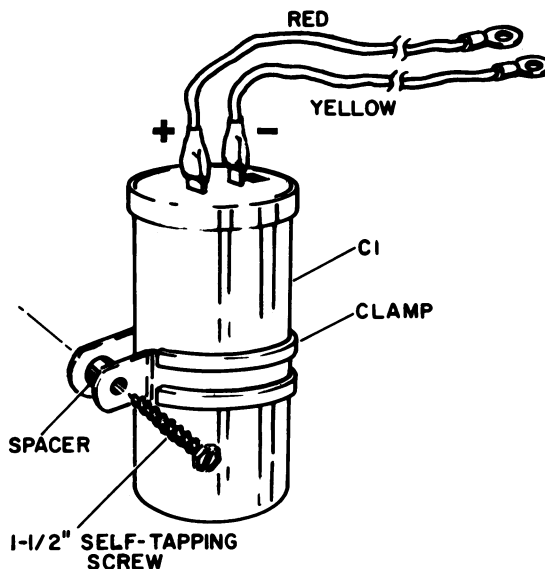


Fig. 3 - Installation of L1

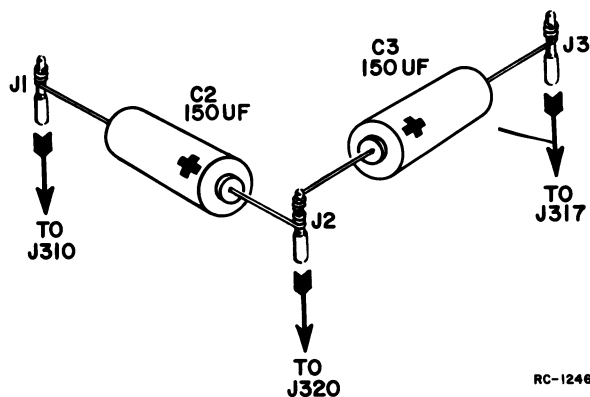
2. Connect the unfused lead of choke L1 to terminal #8 on the solenoid assembly.

3. If ignition-switch control of the TPL radio is desired, connect the fused lead of L1 to the "ACCESS" terminal on the vehicle ignition switch. Use the smaller of the two terminals provided.

If ignition-switch control is not needed, connect the fused lead to terminal #1 on the solenoid assembly. Cut the lead to the proper length and use the larger of the two terminals provided.

4. Replace the cover on the solenoid assembly, using a 1-1/2" screw and a #8 lockwasher to mount choke L1 on top of the cover. See Figure 3.

5. Connect capacitor assembly C2-C3 (consisting of two 150-uf capacitors and three pin connectors) to J310, J317 and J320 on the receiver audio board. See Figure 4. To locate the three jacks, refer to the outline diagram provided on the insulator board inside the radio.



RC-1246

Fig. 4 - Installation of Capacitor Assembly C2-C3 on Rcvr Audio Board.

**PARTS LIST****ALTERNATOR NOISE SUPPRESSION KIT 19A121924-G1**

SYMBOL	G-E PART NO.	DESCRIPTION
C1	5494560-P7 7112178-P4 7112178-P7 7491823-P4 5491480-P19 7142162-P56 N130-P15024C13 7150727-P9	CAPACITOR ASSEMBLY: consists of 1 Capacitor, tubular electrolytic: 4000 $\mu$ f +250% -10%, 25 VDCW. 1' Wire, stranded: red. 1' Wire, stranded: yellow. 2 Terminal, solderless: #8. 1 Mounting clamp. 1 Spacer: 5/16" D x 3/8" L. 1 Screw, self-tapping: #8-15 x 1-1/2". 2 Sleeving: 1/2".
C2-C3	19B205308-G1 5496267-P12 4033348-P1	CAPACITOR ASSEMBLY: consists of 2 Capacitor, tantalum, dry solid tubular: 150 $\mu$ f $\pm$ 20%, 15 VDCW; sim to Sprague Electric Co 150D157X0015S2. 3 Contact, female friction: brass, sim to Bead Chain M 125-34.
F1	5491272-P8	Fuse, cartridge, med blowing: 5 amp at 125 v; sim to Bussmann MDX-5. (Part of choke assembly L1)
J1 thru J3	4033348-P1	Contact, female friction: brass, sim to Bead Chain M 125-34. (Part of capacitor assembly C2-C3)
L1	19B206549-G1 7112178-P2 7150727-P9 7491823-P4 7491823-P5 7142873-G4 N80-P15024C13 N403-P16C13	CHOKE ASSEMBLY: consists of 1 Choke, encapsulated. 6" Wire, stranded: black. 2 Sleeving: 1/2". 2 Terminal, solderless: #8. 1 Terminal, solderless: #12. 1 Fused lead: 9 ft long (includes F1). 1 Machine screw: #8-32 x 1-1/2". 3 Lockwasher: #8.

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