

INSTALLATION INSTRUCTIONS PRIME MOVER ELECTRIC BRAKE CONTROLLER KIT NO. 23

THE Controller is designed to furnish a finely graduated control for electric current to energize Gun Trailer or Cargo Trailer Electric Brakes. It may be used with any make of Electric Brake now on the market.

The Load Control is designed to provide a limit to the maximum brake current secured with *full* movement of the Controller Lever. On trailers equipped with two brakes and on slippery roads, most efficient operation will probably be obtained with the Load Control set between medium and heavy. Four wheel trailers, especially on dry concrete roads, will operate most efficiently with the Load Control over on the heavy side. The light position is used only to keep the trailer from skidding on slippery roads.

Please refer to Packing Slip No. 5403 and Prime Mover Wiring Diagram C121778 before beginning installation.

The Socket illustrated on Diagram C121778 has been installed on the Prime Mover by the Prime Mover manufacturer and the TL (tail light), GR (ground), and SL (stop light) wires are also installed by the manufacturer. The BK (brake) must be wired as explained below.

Furnished in the Kit No. 23 are Wire Cables with Terminals attached to permit the wiring of the Prime Mover for the Controller and Load Control Equipment.

Also provided is a piece of spare wire five feet long, and spare Terminals in envelope 5406-A which may be used in certain cases to take care of any additional wiring that may be necessary.

MAKE INSTALLATION AS FOLLOWS:—

1. Mount Controller D59601 on steering post on left hand side using Mounting Strap B198589.
2. Assemble Load Control B229810 to Mounting Strap Adapter being sure that the tongue washer is bent over against the flat of the mounting nut to prevent loosening.
3. Install Load Control Knob being sure that set screw is against the flat on the Load Control Shaft.
4. Connect Cable A287879 from right hand terminal on Load Control to BK terminal on socket on rear of truck. This wire should be run down the steering column and back along the truck frame, if possible using gas line or tail light wire clamps to hold adequately on frame.
5. Connect Cable A287881 from the left hand terminal on Load Control to Controller terminal marked BK.
6. Connect Cable A287880 from Starter Switch Battery Wire Terminal Post to Controller BT (battery).
7. Connect Cable A287882 from SL terminal of Controller to the Terminal Block mounted on the dash of the Prime Mover, using the binding post that connects the wire running from the SL terminal on the Socket in the back of the truck.
8. Tighten securely all nuts and bolts used in the installation. Be sure all wires are tight.
9. In envelope 5405-A are furnished ten cable clamps, screws, nuts, and washers to be used where necessary to fasten the cables to the truck. It is recommended that the cable running from the Load Control to the Socket on the rear of the truck be fastened every three feet. If possible use clamps used to secure gasoline line or other wiring.
10. Using the clamps furnished—or other means—securely locate all other wires in proper position. Avoid dangling loose wires that may accidentally be torn off.
11. Loosen two screws holding Controller Lever to Controller and raise or lower lever to convenient position for hand operation. Tighten screws.
12. The Load Control may also be mounted on the instrument panel if desired and a mounting space can be located.
13. The Eyebolt A287884 is secured at the rear of the Prime Mover to permit attaching the Gun Trailer Safety Switch Chain to the Prime Mover.

The operation of the Controller Equipment including the brakes, stop light, and tail light connections should be checked by connecting a trailer to the Prime Mover after the installation is completed.

Please report at once any shortages or inoperative equipment in the package.

EMPIRE ELECTRIC BRAKE COMPANY, NEWARK, N. J., U.S.A.