

KOHLER® POWER SYSTEMS

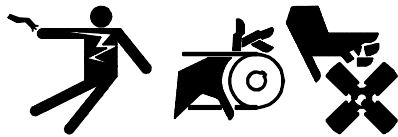


INSTALLATION INSTRUCTIONS

Remote Relay Controller Kits PA-254939 (7.5 Ft.) & PA-254940 (15 Ft.) 10/12 kW Mobile Generator Sets

These kits allow for remote mounting of the controller assembly using a 7.5- or 15-foot cable. These kits also provide for removing the electronic governor board from the controller box and mounting it at the generator set. This allows for governor adjustments to be made at the generator set when the controller box is remotely mounted.

WARNING



Accidental starting.

Can cause severe injury or death.

Disconnect battery cables before working on generator set (negative lead first and reconnect it last).

Accidental starting can cause severe injury or death. Disconnect battery cables (remove negative lead first and reconnect it last) to disable generator set before working on any equipment connected to generator. The generator set can be started by remote start/stop switch unless this precaution is followed.

INSTALLATION

1. Turn generator start/stop switch to stop position.
2. Disconnect generator set battery, negative lead first.
3. Disconnect load leads, controller harness and ground strap from controller box. Remove

controller box from generator set. Install plug (254946) in hole in top of junction box on single-phase units, or use plug (254949) for three-phase units.

4. Remove cover from controller box. Label and disconnect leads from electronic governor board (see Figure 1). Remove electronic governor board from controller box. Save mounting hardware for reuse.

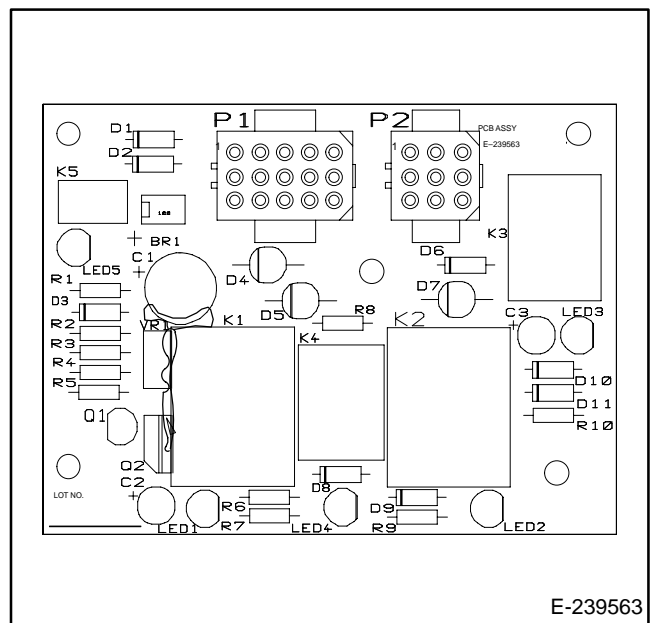
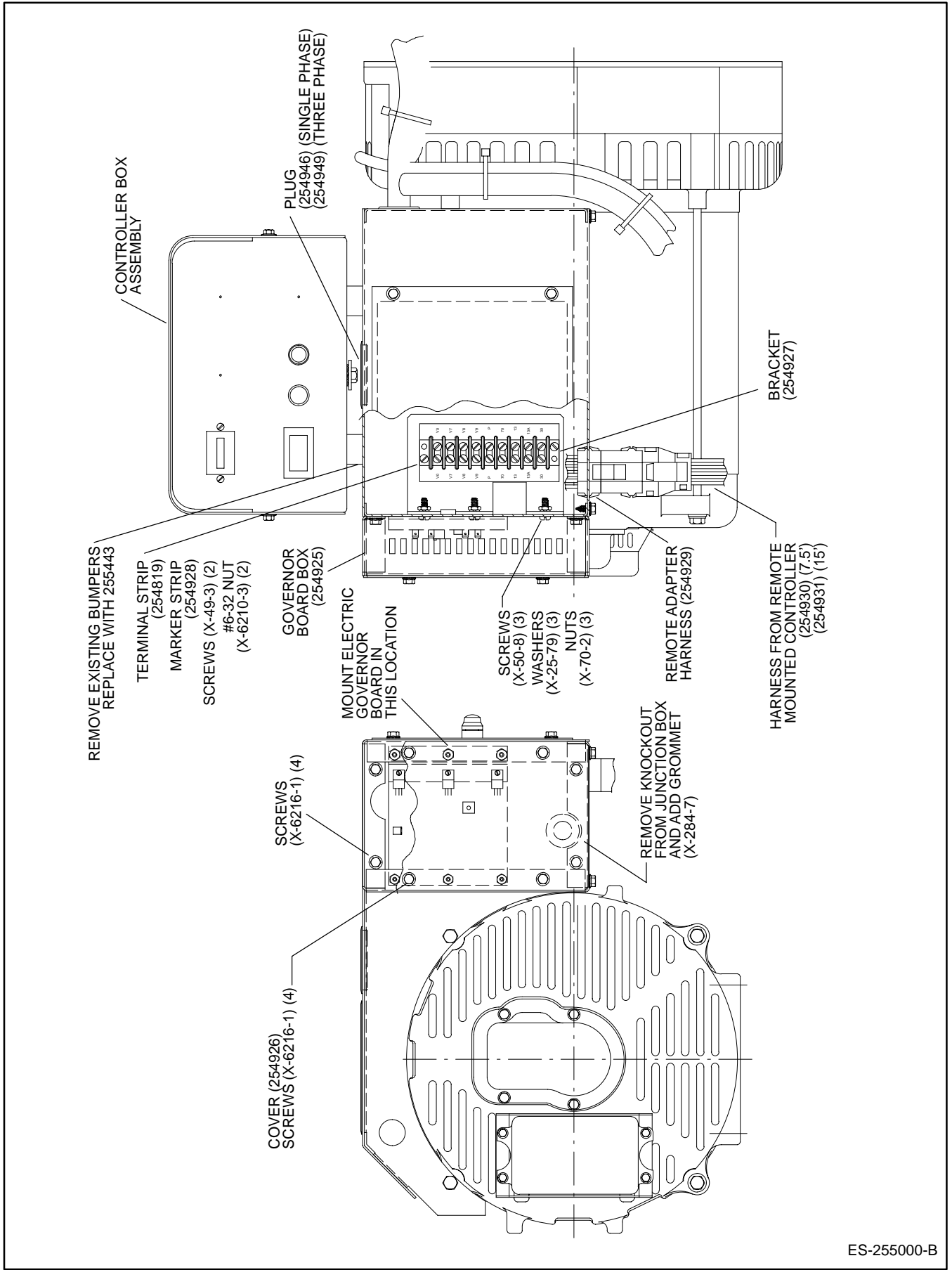


Figure 1. Governor Board Identification

5. Remove existing rubber bumpers from controller box and replace with new bumpers (255443). See Figure 2. Install bumpers with existing hardware.

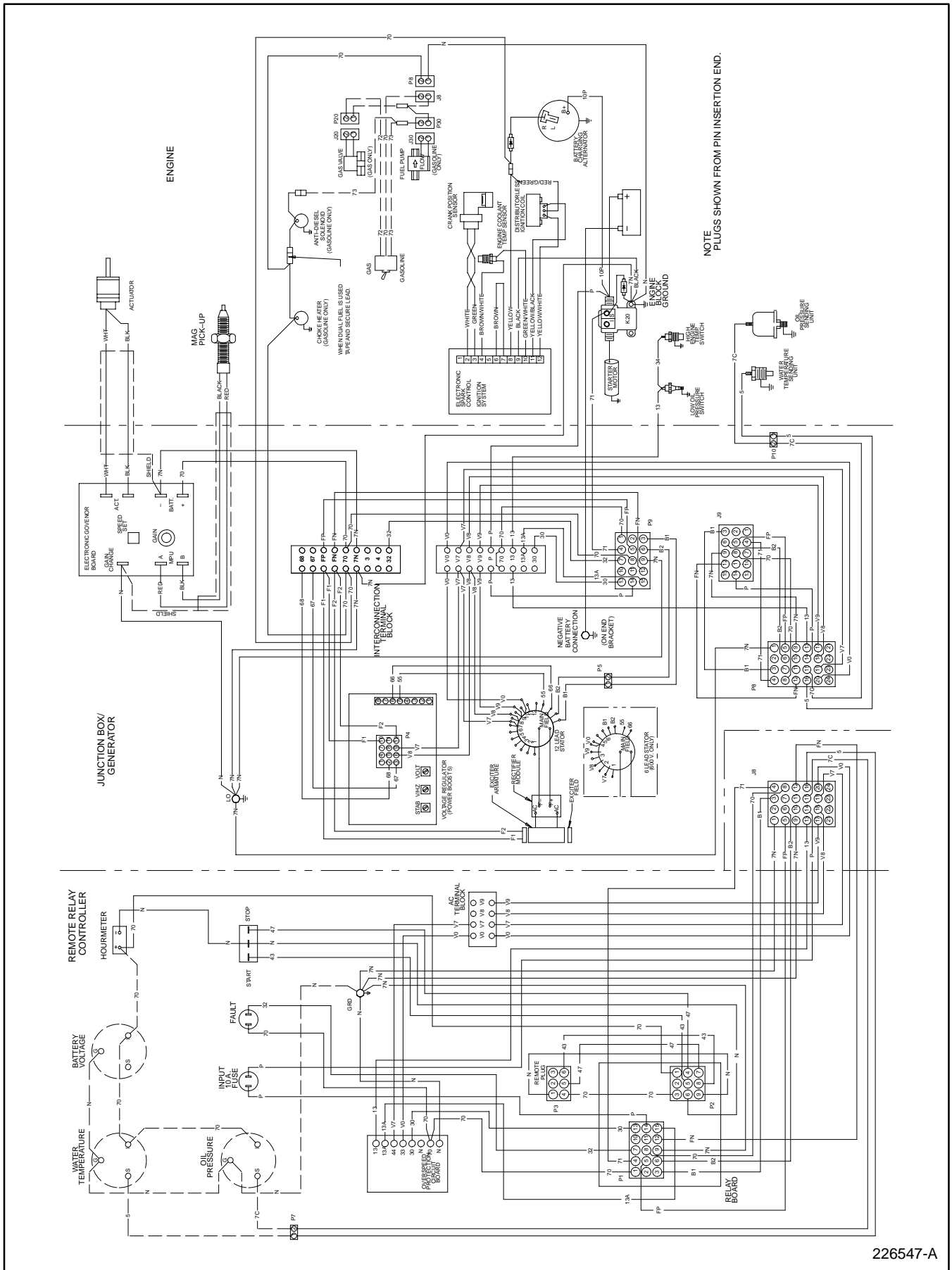
6. Remove cover from generator set junction box. Mount bracket (254927) to inside of junction box with three 10-24 x 0.675-in. screws (X-50-8). Install plain washers (X-25-79) and 10-24 hex nuts (X-70-2).
7. Mount terminal strip (254819) and terminal marker strip (254928) to bracket (254927) with two 6-32 x 7/8-in. screws (X-49-3) and 6-32 whiz nuts (X-6210-3). Refer to wiring diagrams in Figures 3 and 4 and make terminal strip connections.
8. Remove knockout from generator junction box and install 7/8-in. grommet (X-284-7) as shown in Figure 2.
9. Mount electronic governor board in governor board box (254925) with existing mounting hardware.
10. Mount governor board box to side of junction box with four 10-24 x 0.50-in. crimpite screws (X-6216-1).
11. Refer to wiring diagrams in Figures 3 and 4 and make governor board connections. Install cover (254926) on governor board box with four 10-24 x 0.50-in. crimpite screws (X-6216-1).
12. Refer to wiring diagrams in Figures 3 and 4 for installation of remote adapter harness (254929) in junction box. Snap 24-pin harness connector into bottom of junction box.
13. Install cover on generator junction box.
14. Refer to wiring diagrams in Figures 3 and 4 and connect remote harness (254930, 7.5 ft., or 254931, 15 ft.) to controller box. Secure harness inside box with cable tie (X-468-3). Connect 24-pin connector to connector at generator junction box.

Parts List		
Kits: PA-254939 & PA-254940		
Qty.	Description	Part Number
3	Washer, 0.208 x 0.344 x 0.031 in. plain	X-25-79
1	Grommet, 7/8 in.	X-284-7
1	Tie, cable	X-468-3
2	Screw, 6-32 x 7/8 in. r.h.m.	X-49-3
3	Screw, 10-24 x 0.625 in. r.h.m.	X-50-8
2	Nut, 6-32, whiz	X-6210-3
8	Screw, 10-24 x 0.50 in. crimpite	X-6216-1
3	Nut, 10-24 hex	X-70-2
1	Strip, terminal	254819
1	Box, governor board	254925
1	Cover, governor board	254926
1	Bracket, terminal strip	254927
1	Strip, marker	254928
1	Harness, remote adapter	254929
1	Plug	254946
1	Plug	254949
4	Bumper	255443
1	Harness, 7.5 ft. (PA-254939)	254930
1	Harness, 15 ft. (PA-254940)	254931



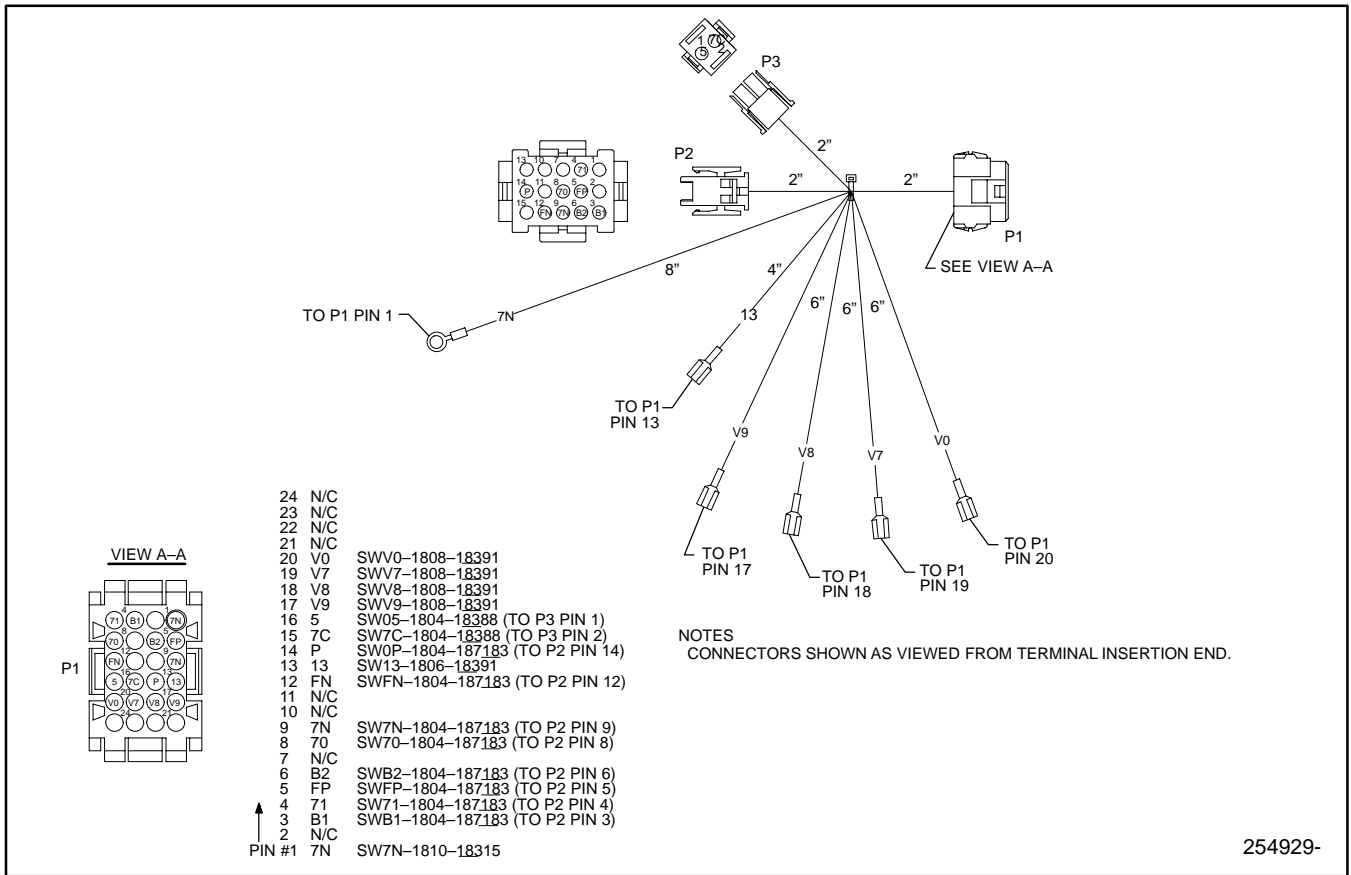
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Figure 2. Kit Installation



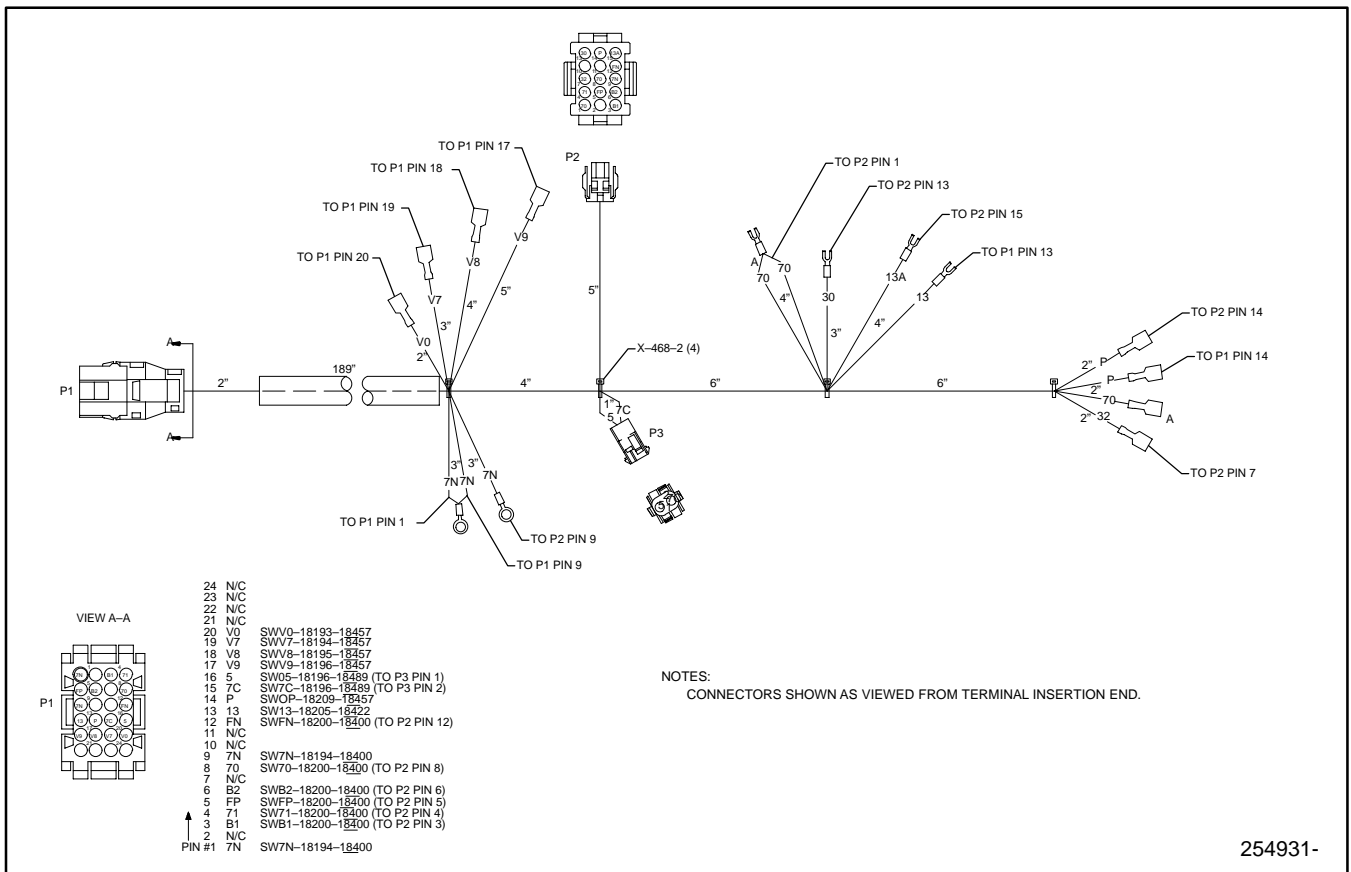
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Figure 4. Wiring Diagram — Three-Phase Units



254929-

Figure 5. Remote Adapter Harness



254931-

Figure 6. Remote Harness