



Installation Instructions

18SP528—Install ProDriver® DC Display

The ProDriver® DC display system is intended for use on electronically controlled diesel engines equipped with the SAE J1587/J1708 diagnostic data link. ProDriver DC provides vital operational data instantly for the driver and stores it for later analysis. Detroit Diesel Data Summaries PC software can be used in conjunction with ProDriver DC to set up preferences, extract stored data, and view/print management reports.

Use the instructions below to install ProDriver DC. For technical support and assistance, contact an authorized Detroit Diesel service outlet.

Before you begin

Check the items listed in Table 1 and listed in Table 2 to make sure you have all the parts required for a complete installation. Note that the mounting bracket is optional, depending on the kit used.

Part No.	Qty.	Description
23525745	1	ProDriver DC Display Unit – DDC
23525872	1	ProDriver DC Flush Mount Bracket Kit
23525874	1	ProDriver DC Wiring Harness
12033769	1	Fuse Holder
12033731	1	Cover, Fuse Holder
12020156	2	Terminal, Fuse Holder
12004003	1	Fuse, 3 Amps
05101020	5	Tie Wrap
23525762	1	Memory Card, ProDriver DC
23529660	1	Operating Manual (6SE703)
23529661	1	Pocket Card (7SE447)
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Table 1. 23525759 ProDriver DC Flush Mount Kit

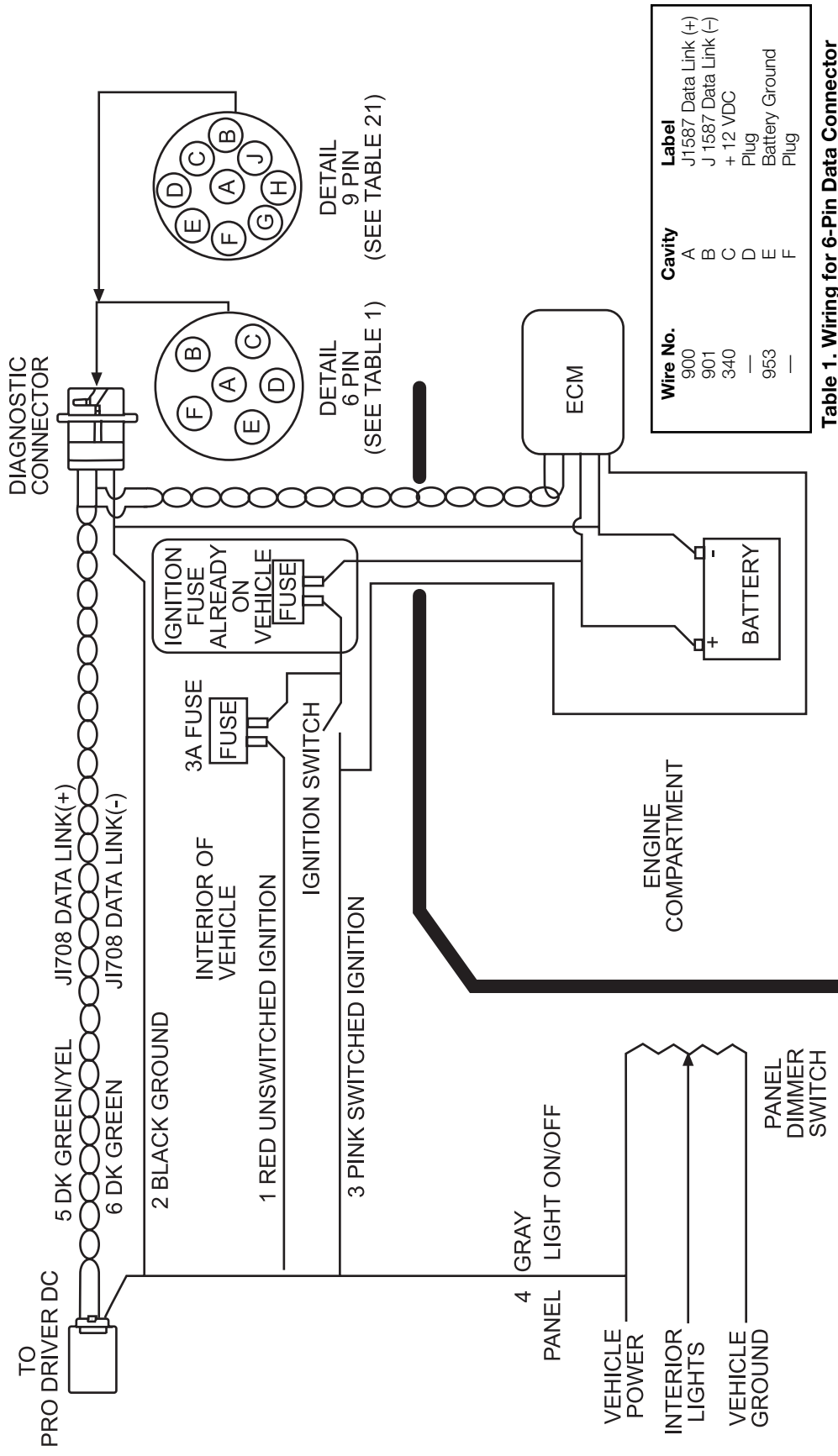
Part No.	Qty.	Description
23525745	1	ProDriver DC Display Unit – DDC
23525873	1	ProDriver DC Surface Mount Bracket Kit
23525874	1	ProDriver DC Wiring Harness
12033769	1	Fuse Holder
12033731	1	Cover, Fuse Holder
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Table 2. 23525760 ProDriver DC Surface Mount Kit

Install ProDriver DC

Refer to schematic diagram 1 on page 2 and install ProDriver DC as follows:

1. Locate and mark the ground wire at the diagnostic connector.
2. Locate and mark unswitched power and ignition-switched power near the ignition switch. Unswitched power can be taken from the power side of the ignition switch. Ignition-switched power must be 12 volts DC *only* with key in on position.
3. Locate and mark the power side (the side with +12 volts DC) of the interior light dimmer.
4. Disconnect the power at the battery by removing the negative (-) ground cable.
5. Mount the ProDriver DC Display:
 - A. For flush mounting, choose a location in the dash of the vehicle. Cut the hole in the dash using the flush mount template illustration. See Figure 1.



Wire No.	Cavity	Label
900	A	J1587 Data Link (+)
901	B	J1587 Data Link (-)
340	C	+12 VDC
—	D	Plug
953	E	Battery Ground
—	F	Plug

Table 1. Wiring for 6-Pin Data Connector

Wire No.	Cavity	Label
953	A	Battery Ground
340	B	+12V DC
925	C	J1939 Data Link (+)
926	D	J1939 Data Link (-)
927	E	J1939 Shield
900	F	J1587 Data Link (+)
901	G	J1587 Data Link (-)
—	H	Plug
—	J	Plug

Table 2. Wiring for 9-Pin Data Connector

Schematic Diagram 1 - ProDriver DC Installation

All specifications subject to change without notice.

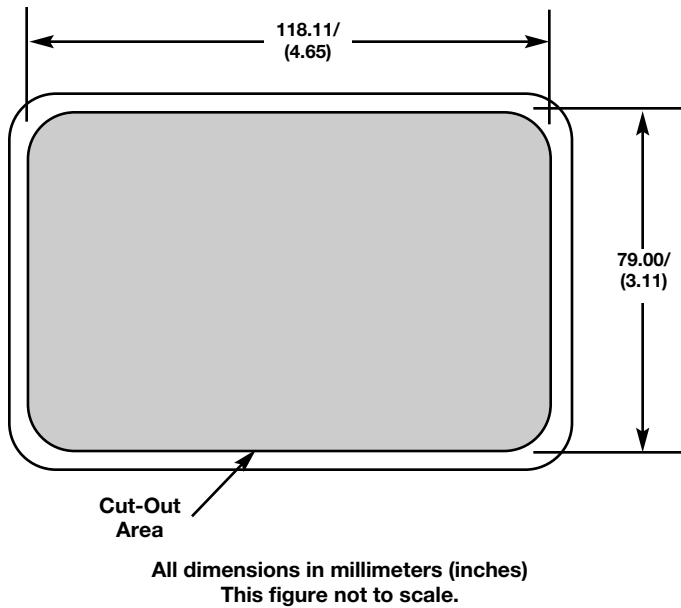


Figure 1. Flush Mount Template Illustration

B. For surface mounting, with the adjustable bracket (23525873), drill the holes in the location selected using the surface mount template illustration. See Figure 2.

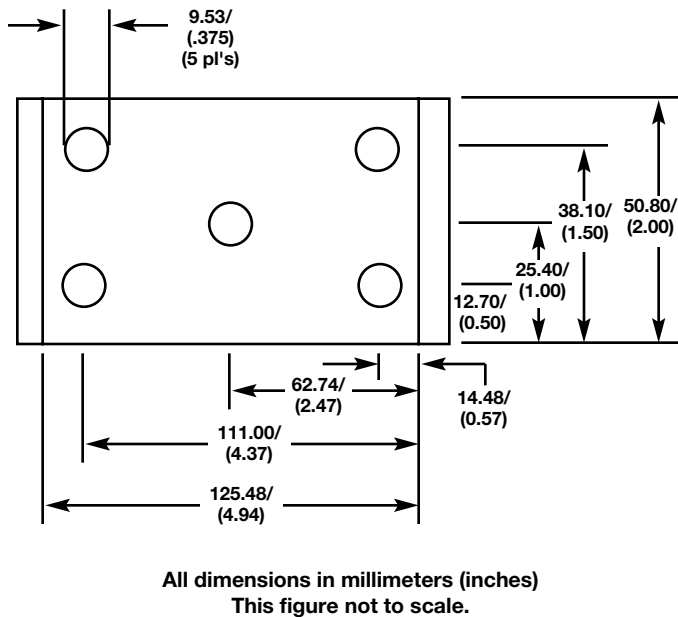


Figure 2. Mounting Bracket Template Illustration

C. For surface mounting without the bracket, drill holes in the vertical mounting surface using the vertical surface mount template illustration. See Figure 3.

6. Using a splice connector, splice the black wire from the ProDriver DC harness into the ground circuit. Enough wire is supplied to accommodate a variety of vehicles. Cut any excess wire from the installation and discard it. *Do not coil excess wire into loops and leave under the dash.*
7. Crimp a 3-amp fuse holder terminal onto the end of the unswitched (red) ignition power wire. Crimp the other fuse holder terminal onto the unswitched power wire from the vehicle ignition fuse and insert both terminals into the fuse holder. Insert a 3-amp fuse into the holder.
8. Splice the pink wire from the ProDriver DC harness into the switched power circuit.

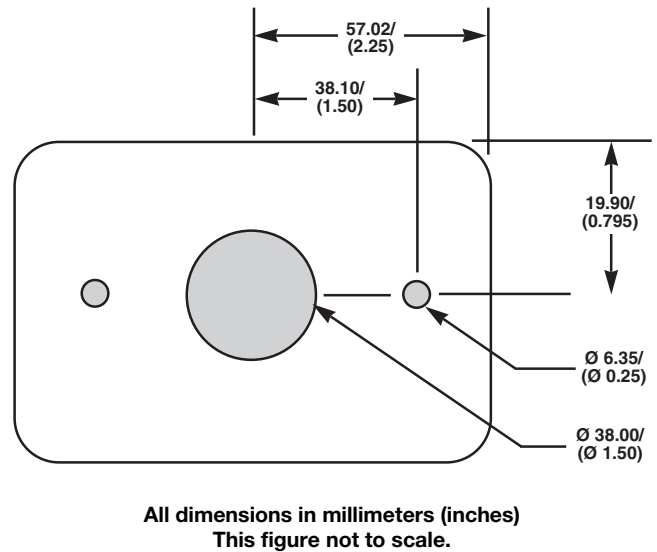


Figure 3. Surface Mount Template Illustration

9. Locate the engine J1587 data link wires at the diagnostic connector. Splice the dark green/yellow wire from the ProDriver DC harness to the positive (+) side of the data link at the diagnostic connector. Splice the dark green wire from the ProDriver DC harness to the negative (-) side of the data link. Leave the twists in the pair of data link wires.
10. Connect the panel light On/Off wire (gray wire from the ProDriver DC harness) to the power side (+12 volts DC) of the interior light dimmer switch. This assures the ProDriver DC will change intensity when either the headlights or the running lights are on.
11. Reconnect the power at the battery by replacing the negative (-) battery cable.

12. Turn the ignition on. The Safety Precaution display will appear on the screen. After a short time, the Main Menu screen should be displayed. This screen will show the following four lines:

- Summary Data
- Clear
- English/Espanol/Français
- Configuration

If these screens are not displayed when the ignition is on, refer to the diagnostic chart below.

13. Reset the ECM (electronic control module) trip data using a DDR (diagnostic data reader) or DDDL (Detroit Diesel Diagnostic Link).

14. Start the vehicle. The idle time screen should be displayed and idle time should accumulate. If idle time does not accumulate, refer to the diagnostic chart below.

16. If splices are good and idle time does not accumulate, reverse the diagnostic data link connections and check again.

17. Refer to the Operating Manual to set up ProDriver DC.



CAUTION:

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

- **Always start and operate an engine in a well ventilated area.**
- **If operating an engine in an enclosed area, vent the exhaust to the outside.**
- **Do not modify or tamper with the exhaust system or emission control system.**

Diagnostic Chart

Symptom	What to Check
Screen does not light up.	<ol style="list-style-type: none"> 1. Power and ground connections. 2. Check location of power and ground circuits. 3. Verify that Pin 2 in connector is ground. 4. Verify that Pin 3 is switched ignition. 5. Verify that Pin 1 is unswitched ignition.
Idle time screen does not appear <i>or</i> idle time does not accumulate.	<ol style="list-style-type: none"> 1. Check data link splices for good connections. 2. Reverse data link leads.

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