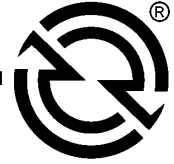


DETROIT DIESEL



Installation Instructions

18SP583 – Install DDEC® V Ambient Air Temperature Sensor and Harness on Series 60® 2004 Engine

Introduction

The Ambient Air Temperature Sensor (ATS) is used to measure outside air temperature for DDEC V. It uses a temperature sensor with an integral bracket for mounting purposes and a dedicated harness. Ambient Air Temperature Sensor kit P/N 23534278, listed in Table 1 includes the following items:

Part No.	Qty.	Description
23534225	1	Harness, Air Temp. Sensor
23518328	1	Sensor, Air Temp. (w/Mtg. Brkt.)
12162193	1	Connector, Air Temp. Sensor
12103881	4	Terminal, Female
18SP583	1	Installation Instructions

Table 1 Ambient ATS Kit P/N: 23534278

Additional Tool Required

The following Kent-Moore® tool is required for proper kit installation:

- J-35123 Packard Crimp Tool for Metri-Pack™ 150 Series Terminals.

This tool can be ordered directly from an authorized Detroit Diesel service outlet.

Installation of the Ambient Air Temperature Sensor and Harness

Use the following procedure to install the ambient air temperature sensor and harness:

NOTE:

The AATS terminals contained in this kit are “pull to seat.” Insert the cable into the connector before installing the terminal on the cable. For crimping instructions, refer to section “Connector and Terminal Information” in the DDEC V Application and Installation Manual (7SA821). This manual is available through authorized Detroit Diesel service outlets.

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1. Unplug the connector from the turbo boost pressure sensor.
2. Take the ambient ATS harness and plug the TBS connector into the turbo boost sensor. Plug the turbo boost sensor (from the engine sensor harness) into the 3-pin connector (turbo boost sensor connector mate) on the ATS harness.
3. Route the harness along the engine sensor harness towards the ECU 68-way connector.
4. Remove the vehicle interface harness 68-way connector from the ECU.
5. Insert lead into the connector cavity V-48 and reinstall the 68-way connector.
6. Route the body of the harness to the desired location for the ATS Sensor. Remove any excess harness material and discard.
7. Install the black lead (circuit E-15) into cavity “A” of ATS connector 12162193 and the green lead (circuit V-48) into cavity “B.” Crimp the 12103881 terminals on each lead using tool J 35123. Insert the terminals into the connector.
8. Secure the sensor to the desired location and plug in the ATS connector.

NOTE:

Preferred mounting location for the sensor is on the front bumper away from any heat sources.

9. Secure the harness to adjacent components with wire ties.
10. Sensor must be enabled with a Distributor Reprogramming Station. Choose DDEC V Ambient Air Temperature Sensor.

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18SP583 0403 As technical advancements continue, specifications will change. Printed in U.S.A.

