

DATE: March 19, 2010

NO: 226R3

SUPERSEDES: P.B. 226R2 dated 11/17/09 and P.B. 248R2 dated 3/26/06**SUBJECT: PUMP MOUNTED DRIVER (PMD) AND
PUMP WIRING HARNESS FOR DS PUMP MODELS**

In 2009 a revised pump mounted driver (P/N 39405) and wiring harness (P/N 39439) were introduced for use on all DS pump models. These components incorporate many technological enhancements which have proven to increase overall performance and durability, such as:

- Gold plated electrical connection pins and wiring harness connector terminals improve conductivity and reduce fretting corrosion.
- Reinforced mounting holes eliminate internal circuit board deformation during installation and improve mounting torque retention.
- The PMD and it's associated wiring harness connector have both been colored "Grey" for ease of identification.
- To prevent intermixing of the previous and current components (dissimilar metals) the shape of the connector socket, wiring harness terminal connector and the calibration resistor were changed.
- Circuit board component upgrades designed to improve sustained operation at elevated temperatures.
- A softer potting material to protect the circuit board from distortion during repeated thermal cycles.
- Thread locking compound applied to the transistor mounting nuts to ensure complete retention and efficient heat transfer.

Figure 1

- » Shape of Connector Changed
- » Gold Plated terminal Pins
- » Grey PMD Case

**Pump Wiring Harness
P/N 39439**

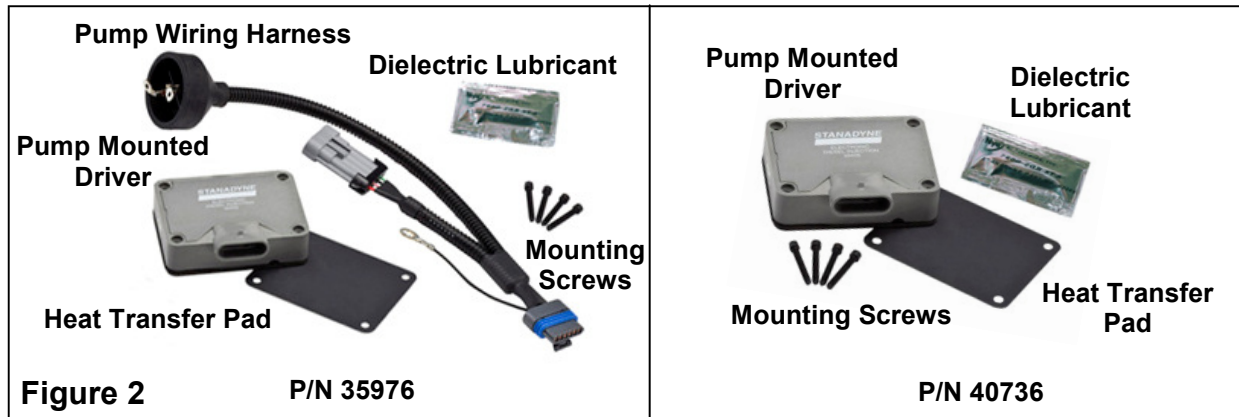
- » Shape of Connector Changed
- » Gold Plated Terminals
- » Grey Color

- » Reinforced
Mounting Holes

**Pump Mounted Driver
P/N 39405**

Service

The 39405 PMD and the 39439 wiring harness supersede all previous versions of the PMD and harness. Pump Mounted Drivers are only available as part of a PMD kit. There are two PMD kits, as shown in Figure 2.



Individual components within the PMD kits include:

- 29918 Mounting Screws (Four)
- 30598 Heat Transfer Pad
- 39405 Pump Mounted Driver
- 39439 Pump Wire Harness (*Not* included in PMD Kit P/N 40736)
- 40568 Dielectric Connector Lubricant

The dielectric connector lubricant (P/N 40568) helps to reduce fretting corrosion of terminals. It is compatible with all terminal materials and may be applied to all electrical connector terminals and pins for added protection.

Calibration Resistors

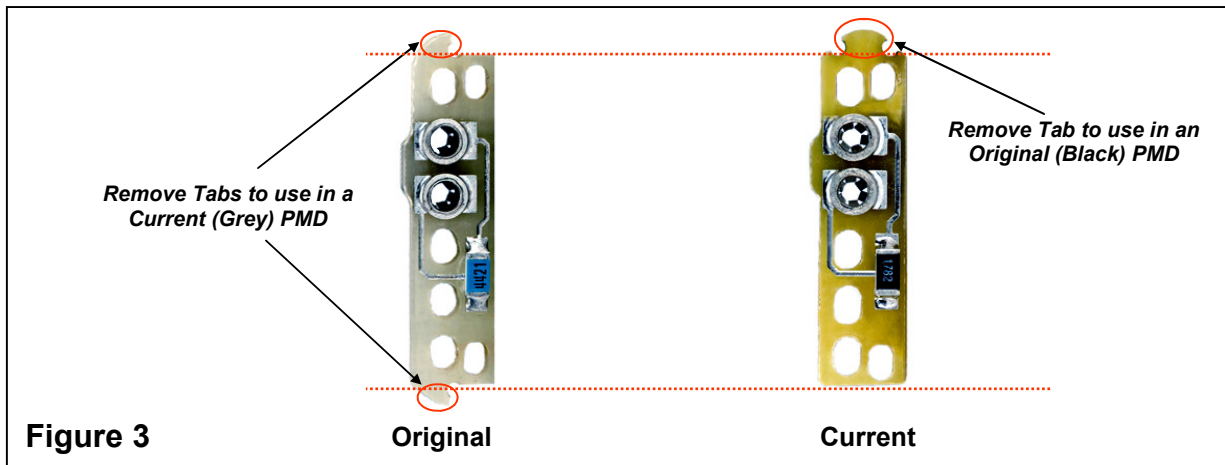
The table below identifies the calibration resistors for each PMD connector design. Since the profile is different, the current resistors do not supersede the previous design resistors.



Identification Number	Current	Previous
1	39859	30892
2	39860	30893
3	39861	30894
4	39862	30895
5	39863	30896
6	39864	30897
7	39865	30898
8	39866	30899
9	39867	30900

Note: The previous design calibration resistors (for Black PMD's) are pending obsolescence and once existing stock of the previous style calibration resistors are depleted they will no longer be available. However, you may use the equivalent current style calibration resistor as a replacement with a slight modification as outlined below.

To accommodate each PMD design, either calibration resistor design can be modified to suitably fit either type of PMD connector socket. Use a sharp blade or snips to trim the necessary tab(s) off of the resistor, as shown in Figure 3.



Warranty

Stanadyne has increased the warranty coverage for pump mounted drivers to two years with unlimited mileage (Reference S.L. 328). Other specific warrantable conditions may be found in section 4 of the Stanadyne Service Policies and Procedures (99966) located in the Service Literature portion of the Stanadyne service website.

**Technical Support Group
Product Support Department**

<u>Revision</u>	<u>Date</u>	<u>Change</u>
1	04/09	New Part Numbers and resistor information added.
2	11/09	Added dielectric lubricant and calibration resistor information
3	03/10	Introduced PMD Kit P/N 40736. Added calibration resistor obsolescence and modification information.