

Number: 2010-4601

Date: October 8, 2010

SUBJECT: High Speed Oil Pumps – Mounting Bracket Configuration

OVERVIEW

Northern® Pump has determined that owners of High Speed Oil Pumps have a difficult time differentiating between what appear to be “like models” of gear pumps. Failure to recognize a subtle difference in the mounting bracket configuration can lead to inadvertent damage during installation or service of the pump assembly.

This service bulletin is designed to assist Northern® High Speed Oil Pump owners in the determination of pump mounting bracket configuration. In addition, please review the recommended service section at the end of this bulletin.

APPLICABLE PUMP MODELS

4600-05-C3794	4600-05-C3794-R	4600-05-C3804
4600-05-C3804-R	4600-05-D1148	460005D1148CCW
460005D1148CCWR	460005D1148CW	460005D1148CW-R
4600-05-D1148-R	4600-05-D1498	4600-05-D1498-R
460005D1498SPL	4600-05-D793	460005D793CCW
460005D793CCWR	460005D793CW	460005D793CW-R
4600-05-D793-R	4600-07-B11160	4600-07-B8653
4600-15-C3791	4678-07-A297-W5	4678-07-A681
467807A681CCW	467807A681CCW-R	467807A681CW
467807A681CW-R	4678-07-A681-R	467807AR681CCWR
467807AR681CW-R	4678-07-D1147	467807D1147CCW
467807D1147CCWR	467807D1147CW	467807D1147CW-R
4678-07-D1147-R	4678-10-A159-W6*	4678-10-A196-W6*
4678-10-A258-W5	4678-10-A259-W5*	4678-10-A259-W6*
4678-10-D1713*	4678-15-A160*	4678-15-A261-W5*
4678-20-A158-W5*	4678-20-A159-W5*	4678-20-A160*
4678-30-A258-F*		

**This service bulletin may apply to additional models with an “R” or “-R” after the above listed model number*

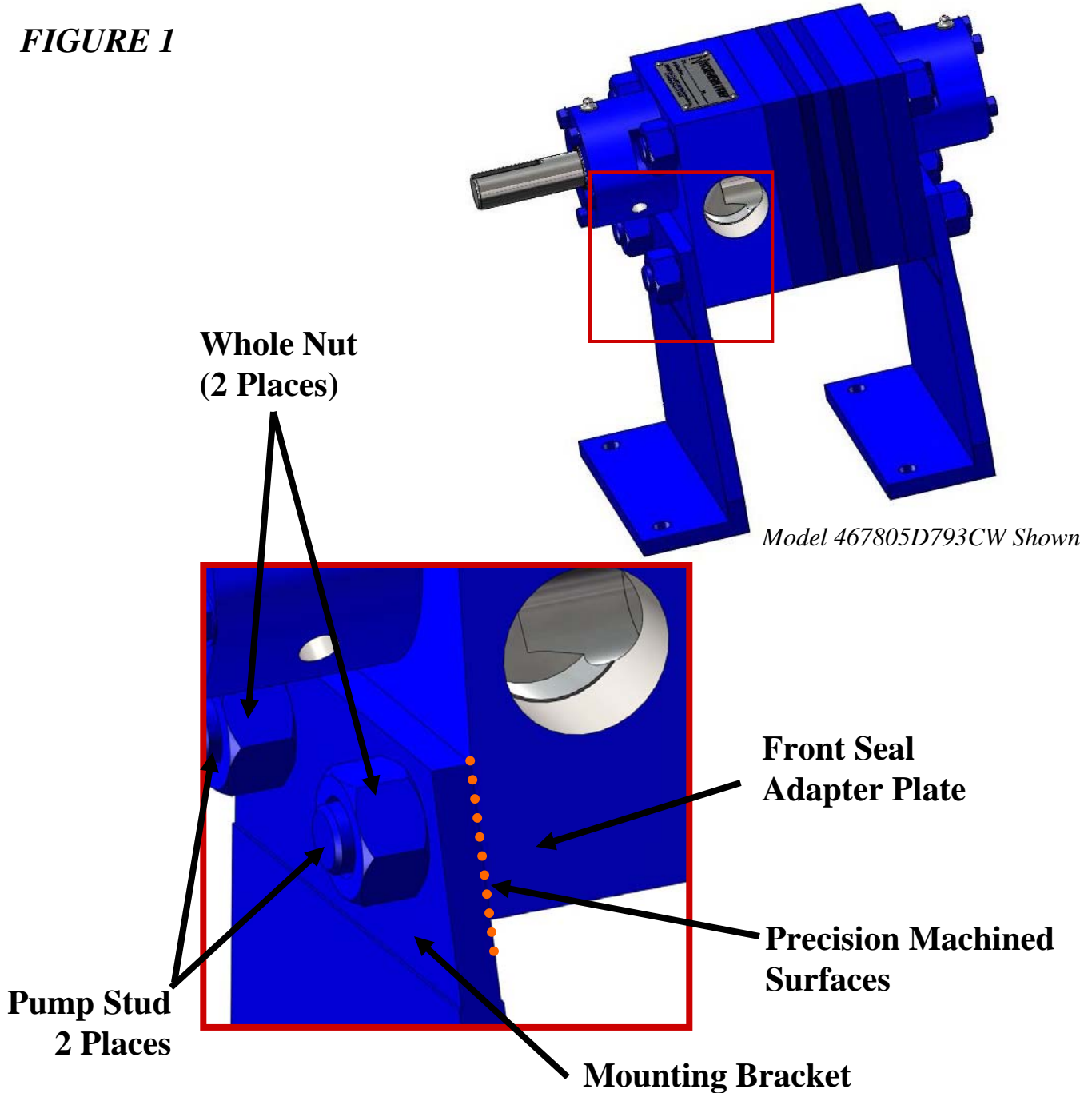
To help locate your pump model number follow the link below-

<http://www.northern-pump.com/PDFs/Model%20Number%20Finder.pdf>

DESCRIPTION OF “BODY BOUND” MOUNTING BRACKET STYLE

Figure 1 shows the body bound mounting bracket style. In this configuration, the bracket is doweled with the pump stud in order to maintain accurate alignment. In this configuration, the mounting bracket is held on with one whole nut on each pump stud. The mounting bracket rests against the outward surface of the front seal adapter plate. The outward surface of both the seal adapter plate and mounting bracket are precision machined to accommodate this critical surface mate. *Removing the Whole Nuts will cause decompression of the pump, and can result in premature pump failure.*

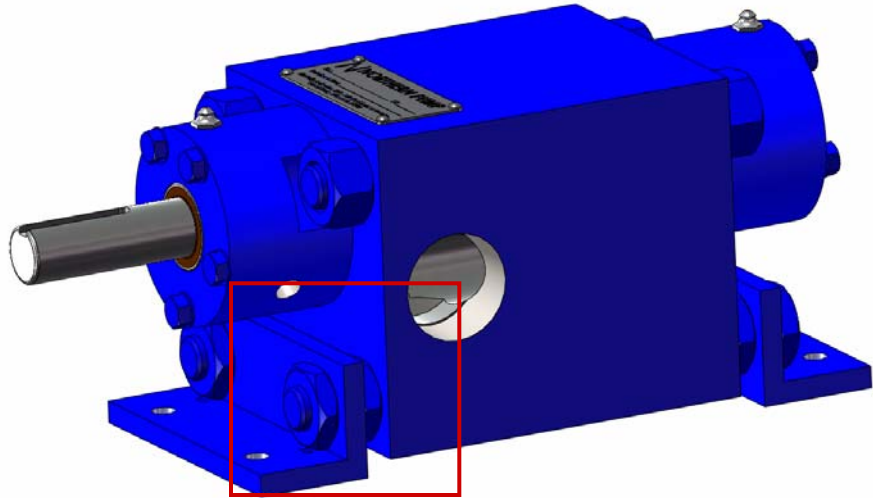
FIGURE 1



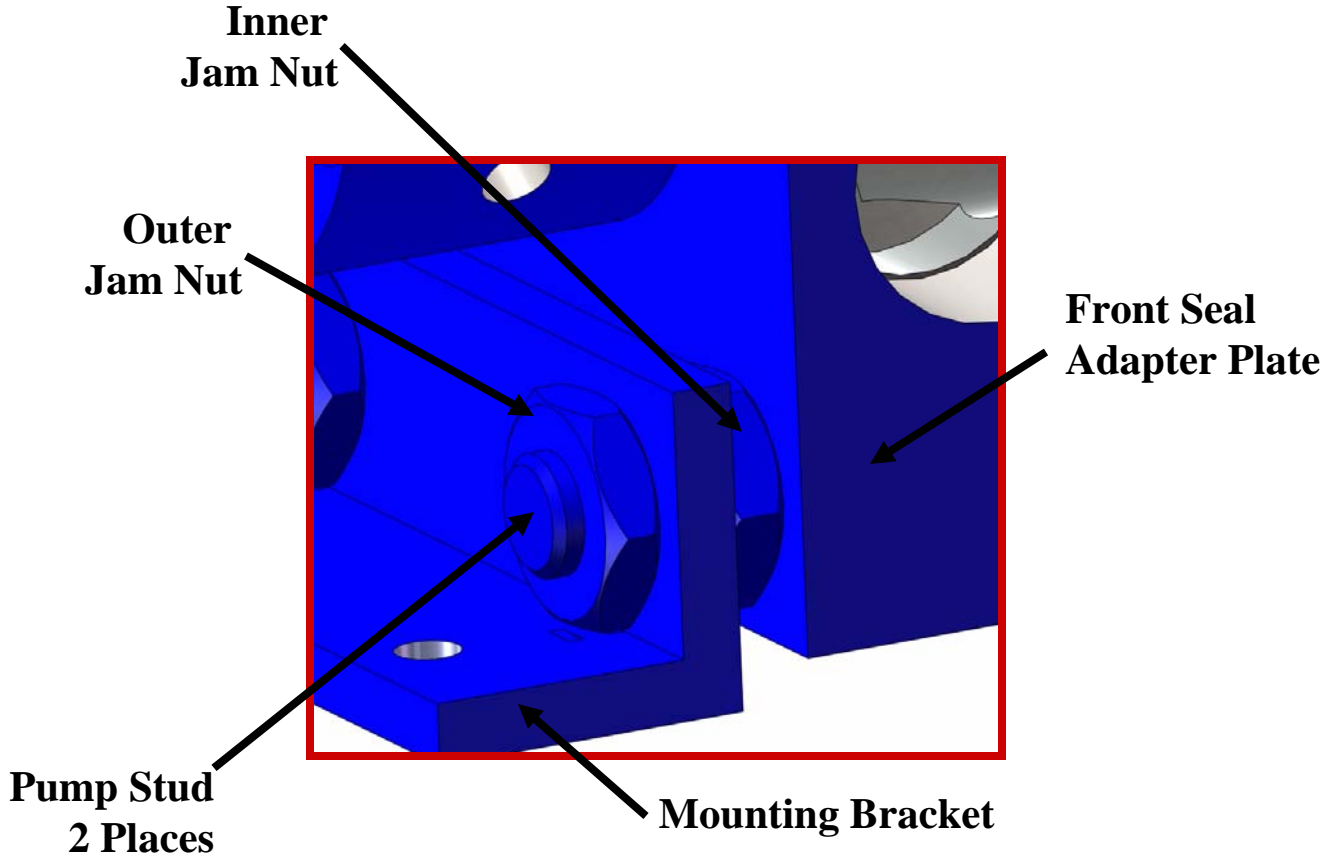
DESCRIPTION OF STANDARD MOUNTING BRACKET STYLE

Figure 2 shows the most common mounting bracket configuration found on Northern Pumps. In this configuration, the mounting bracket is secured between two jam nuts that are threaded on the stud. These brackets are not precision doweled and require proper pump to driver alignment. The outer jam nuts may be removed at installation to facilitate bracket change. However, the inner jam nuts may not be removed at installation. ***Removing the Inner Jam Nuts will cause decompression of the pump, and can result in premature pump failure.***

FIGURE 2



Model 467805D1148CW Shown



MOST COMMON MODEL VARIATIONS

Figure 3 through 8 shows the differences between the most common models of High Speed Oil Pumps. Always use the factory installed nameplate to identify the pump model number. Verify that the mounting configuration matches mounting bracket configurations.

FIGURE 3

PUMP MODELS

460005D793CW
460005D793CCW
460005D793CW-R
460005D793CCWR
4600-05-D793
4600-05-D793-R

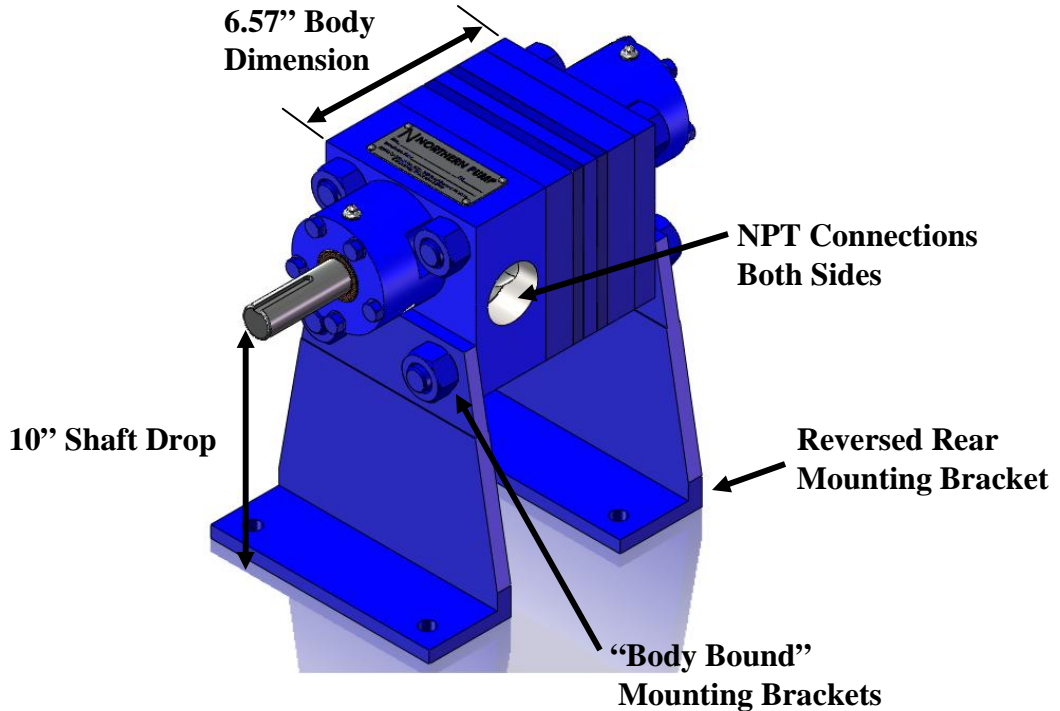


FIGURE 4

PUMP MODELS

4600-05-C3804
4600-05-C3804-R

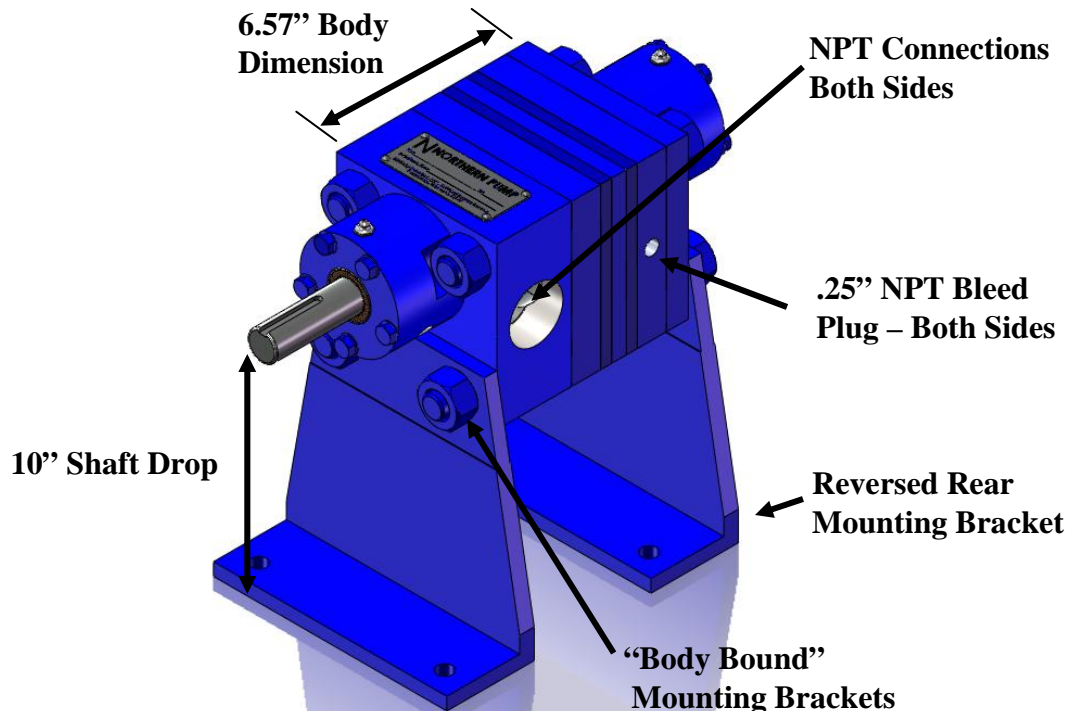


FIGURE 5

PUMP MODELS

4600-05-C3794

4600-05-C3794-R

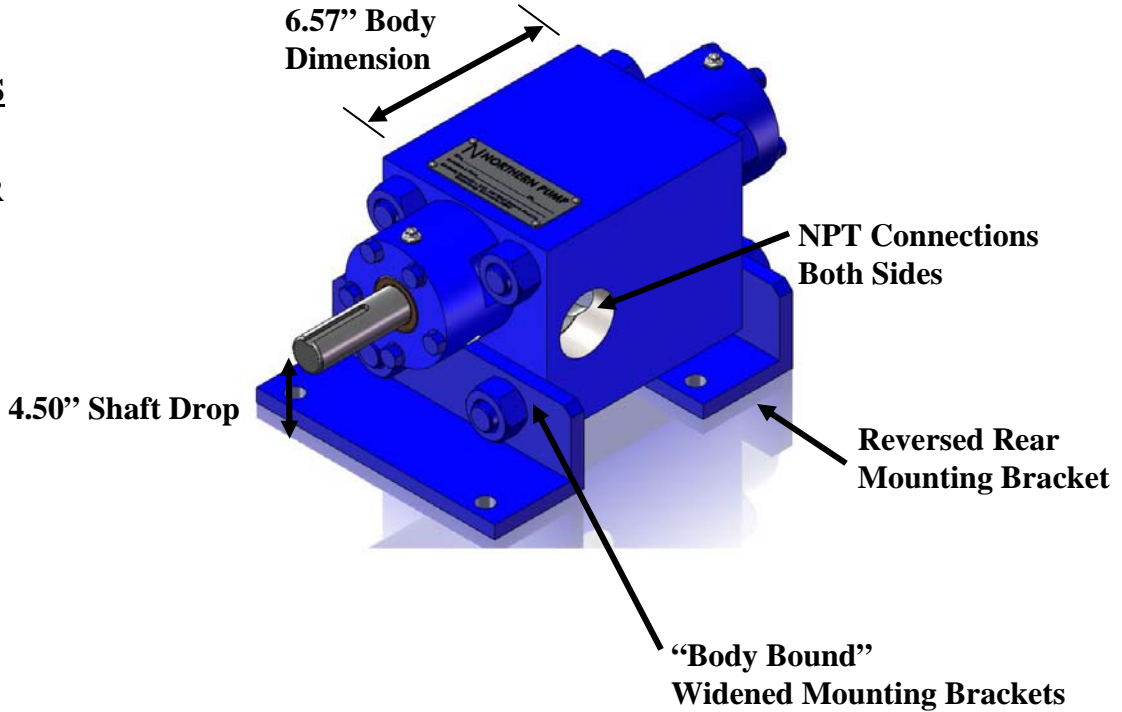


FIGURE 6

PUMP MODELS

460005D1148CW

460005D1148CCW

460005D1148CW-R

460005D1148CCWR

4600-05-D1148

4600-05-D1148-R

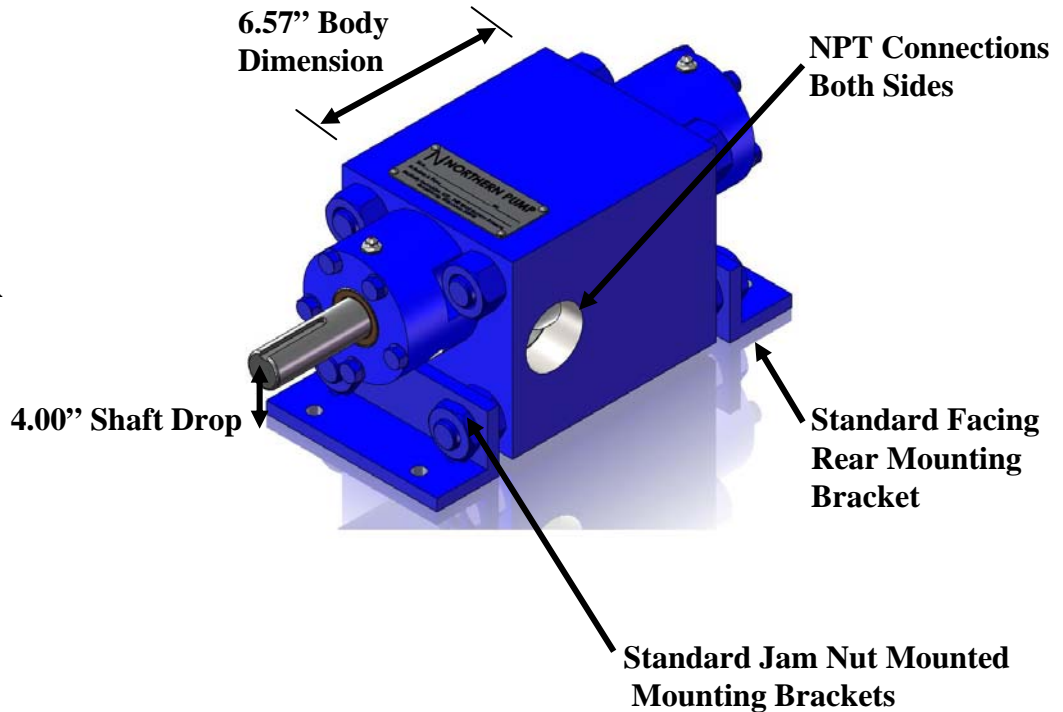


FIGURE 7

PUMP MODELS

- 467807D1147CW
- 4678071147CCW
- 4678071147CW-R
- 467807D1147CCWR
- 4678-07-D1147
- 4678-07-D1147-R

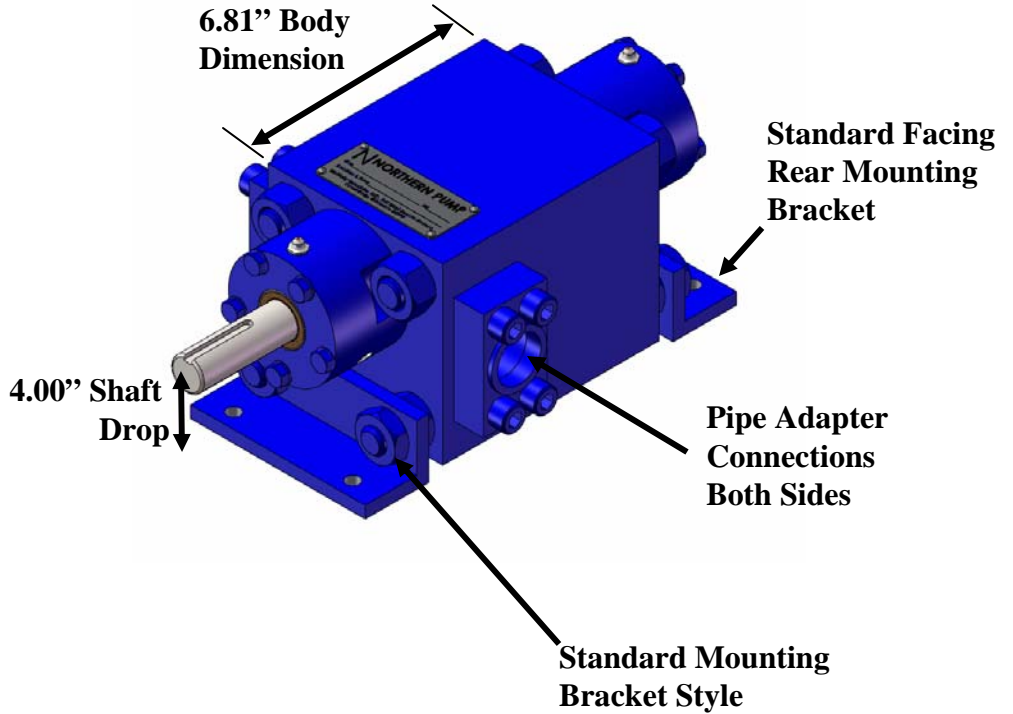
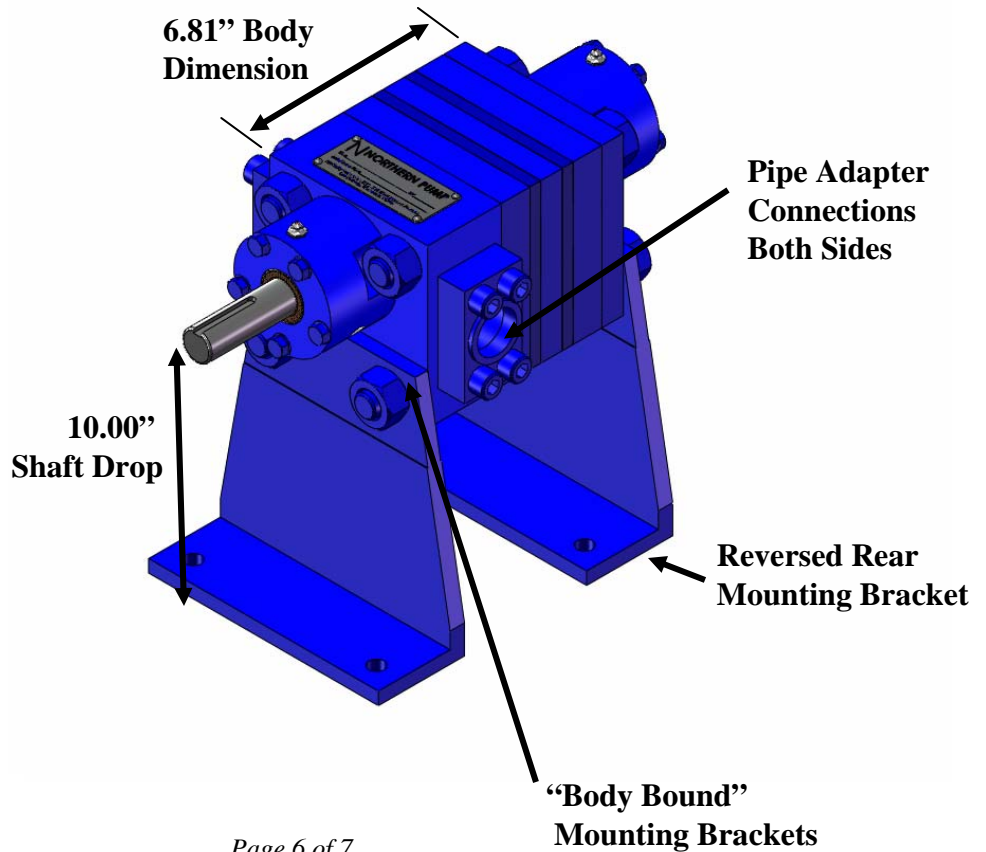


FIGURE 8

PUMP MODELS

- 467807A681CW
- 467807A681CCW
- 467807A681CW-R
- 467807A681CCW-R
- 4678-07-A681
- 4678-07-A681-R
- 467807AR681CW
- 467807AR681CCW
- 467807AR681CW-R
- 467807AR681CCW-R



RECOMMENDED SERVICE

1. Verify all model and serial numbers for all Northern High Speed Oil Pump models.
2. Using figures 3 through 8, verify mounting brackets match the configuration listed.
3. If pump assemblies appear to be re configured, contact the Northern Pump office to schedule factory maintenance.

Note - This is **NOT a factory recall. Owners will incur all repair charges.*

4. Update all maintenance procedures to reflect proper installation of pump assemblies.
5. Instruct all maintenance personnel that “Body-Bound” and Standard mounting brackets are **NOT** interchangeable.
6. Never remove the jam nuts on a “Body-Bound” style pump that has been factory tested. This will cause decompression of the pump assembly and can lead to premature pump failure.
7. Field overhaul and major maintenance is never recommended for this style Northern Heavy Duty gear pump. Contact the factory to schedule a factory overhaul.

NORTHERN PUMP CONTACT INFORMATION

Please contact the Northern Pump Office with any questions relating to this service bulletin, or to schedule a factory overhaul.

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