



## Hale Products, Inc. Service Bulletins

Bulletin#: SB79

Revision#: 1

Date: 11/1/2004

Product Type Covered: Hale Pump ☒

Hurst Tool ☐

Lukas Tool ☐

Product Covered:

Drive Line Interference on Manual Pump Shift Override

### Problem Statement:

“Half Round” 1810 Flange style yokes interfere with the Manual Pump Override Shift Shaft on Hale G series gearboxes. Use full round when using 1810 flange style yoke

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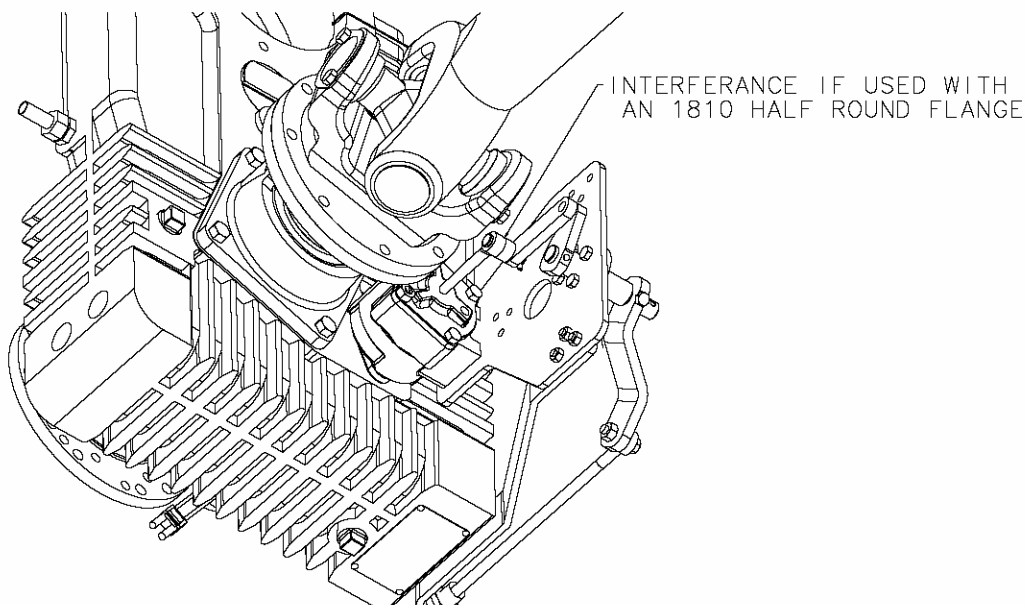
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## Body of the Bulletin

Some Fire Department specifications require a manual pump shift override handle on the pump operator panel. While this is not required by the NFPA 1901 standard, this option is available on many new pumper apparatus. Hale products introduced a manual pump shift override kit in early 2002 as an option on all Hale midship pumps. This option uses mechanical advantage to reduce the shift effort at the handle to approximately 25 pounds and can provide an easier installation. Many of these kits have been installed on new trucks.





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Attached reference drawing 101-0850-73-0 depicts the manual pump shift override.

Push – Pull Manual Pump Shift Override kit with 72 inch cable	P/N: 512-0500-00-0
Push – Pull Manual Pump Shift Override kit with 55 inch cable	P/N: 512-0500-01-0
Turn style Manual Pump Shift Override shift kit	P/N: 512-0500-10-0

Drive shaft flange yokes in the half round style have a larger swing diameter than the full round flange yokes that are more popular in heavy and medium trucks. The half round flange style yokes will hit the linkage on the manual pump shift override kit when shifting into pump. Hale recommends using full round flange yokes with the manual pump override shift kit to prevent interference.

Another option is to order spline drive shaft connections in place of the standard universal drive flange on Hale midship pumps. Hale Products, Inc offers the option of spline shafts on all midship pumps. This allows the use of half round or full round yokes with the manual shift kit w/o interference problems. The midship order sheet shows the option for 2.75-10 spline drive shaft option on the gearbox. Note that some spline yokes are available from Hale Products, Inc. Note that this is an additional charge. It may be simpler and cost effective to utilize full round yokes with the manual pump override shift kit.

### **Optional half round spline yokes stocked by Hale Products, Inc.**

1810 Series Half Round Spline Yoke	P/N: 115-1450-01-0
1760 Series Half Round Spline Yoke	P/N: 115-1450-02-0
1700 Series Half Round Spline Yoke	P/N: 115-1450-03-0

### **Optional full round spline yokes stocked by Hale Products, Inc.**

1810 Series Full Round Spline Yoke	P/N: 115-1450-06-0
1760 Series Full Round Spline Yoke	P/N: 115-1450-05-0
1700 Series Full Round Spline Yoke	P/N: 115-1450-04-0

