

## Shift Inhibitor

The Felsted Shift Inhibitor is designed to prevent costly drivetrain damage due to high RPM shifting.

Automatic transmissions in refuse packers and similar heavy-duty vehicles, especially those involved in frequent stop-and-go PTO operations where engine speeds above idle are required, can suffer major abuse from improper shifting. If the driver does not wait until engine RPMs return to idle before shifting, high inertial loads can be forced upon the transmission and drivetrain, potentially leading to extensive and expensive damage.

The Felsted Shift Inhibitor System combats this by delaying the shifting process until the engine has returned to idle speed. It is a pneumatic-mechanical system and compiles with the Allison® Transmission Watch Notice #65, requiring a neutral to range shift inhibitor system.

### SYSTEM COMPONENTS:

- Felsted shift inhibitor control
- Engine speed sensor\*
- Speed switch\*
- Airbrake Tubing\*
- Push-Pull Cable
- Fittings\*
- Transmission Connection Kit

\* These items are not supplied by Felsted. Use this bulletin to determine the shifter part number, then consult with Felsted Sales/Engineering to create the correct system for your application.

## 2nd Neutral P-B Shifter

This control is used on Allison's new transmissions that have a 2nd neutral position beyond reverse and no internal parking pawl mechanism. Movement of the shift selector from reverse to the "PB" position will shift the transmission into 2nd neutral and actuate the vehicle Spring Parking Brake system control.

In the mechanical control, brake actuation is accomplished through a push/pull cable. In the electrical control, brake actuation is accomplished through an electrical switch.

The shift position indicator reads "PB R N D 3 D1".

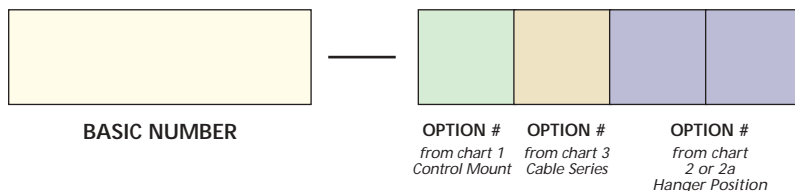
### SPECIFICATIONS:

- Rugged steel construction.
- Four 1/4-20 threaded mounting holes.
- 14 volt illumination, single wire with chassis ground.
- Uses a Felsted 4 series High Performance transmission shift cable.
- Detents are ramped "D1" thru "N" on upshift and "R" to "N" on downshift.
- Mechanical brake actuation cable is 3 series. Cable travel is .74" from "R" to "PB".
- Electrical brake actuation switch has contacts closed in all positions "D1" thru "R". Switch contacts open in "PB" position only. Electrical load not to exceed 1 amp inductive @ 13 VDC.

## How to Order the Felsted Shift Inhibitor and 2nd Neutral P-B Shifter:

1. Select proper BASIC NUMBER box from page 2 of this brochure.
2. Select position from Chart 1 on page 3.
3. Select Cable Series from Chart 3 on page 3.
4. Select Hanger Bracket Position from Chart 2 on page 3 or Chart 2a right. Note: If using options from chart 2 on page 3, place a "0" prefix with the single digit in box below.

NOTE: These shifters offer 4 positions NOT available with the standard T-handle shifters. They are shown as additional options on this page.



These positions are available only for Shift Inhibitor and 2nd Neutral P-B Shifter.

