

FLA COE
FLB COE
FLD Conventional
Business Class
FLC 112 Conventional

Century Class Conventional
Argosy COE
Cargo
Columbia

Coronado
> Business Class M2
Cascadia
108SD/114SD

Freightliner
Service Bulletin

General Information

Some M2 vehicles with Allison 6-speed transmissions may produce a buzzing or chirping noise emanating from the shift lever. This usually happens when the transmission is in 6th gear, and the vehicle is moving at 50 to 55 mph (80 to 89 kph). Shifting out of 6th gear stops the noise. A shift cable isolator kit has been developed to eliminate the cause of the noise. If a noise is emanating from the shift lever or shift cable, use the procedure in this bulletin to replace the existing shift cable clamp on the transmission with the isolator kit KPP 294201.

Procedure

1. Park the vehicle on a level surface, set the transmission in NEUTRAL, shut down the engine, and set the parking brake. Chock the tires.
2. Remove the cotter pin, then remove the pivot pin and shift cable from the transmission shift lever. See [Fig. 1](#).

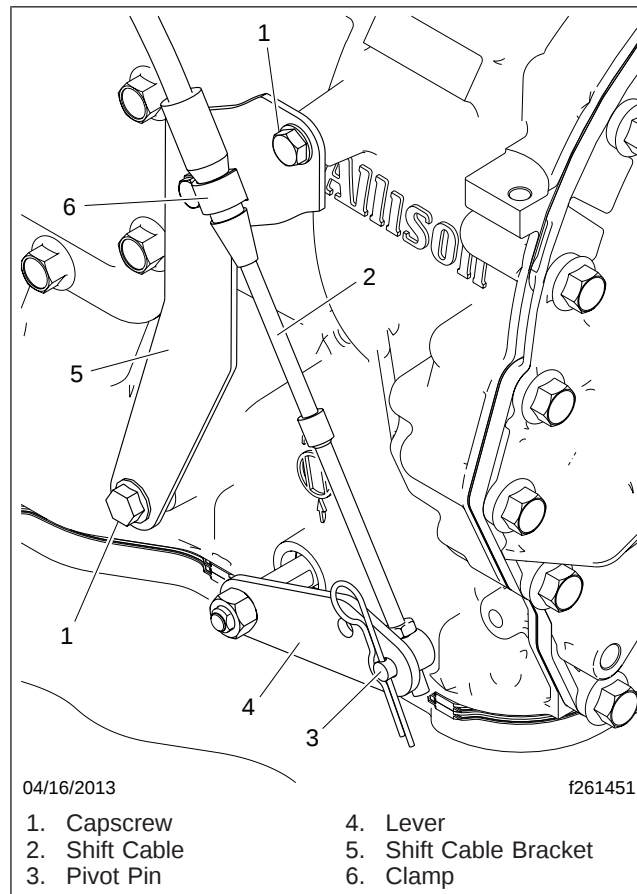


Fig. 1, Existing Shift Cable Installation

3. Remove the pivot pin from the shift cable.
4. Remove the clamp that secures the shift cable to the cable bracket. Save the bolt and discard the clamp.

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5. Remove the two capscrews that attach the cable bracket to the transmission, then remove the bracket.
6. Using the isolator kit mounting bracket (**Fig. 2**, item 4) as a template, with one hole positioned over the existing hole in the cable bracket, mark and drill a 1/4-inch (7-mm) hole in the cable bracket, as shown in **Fig. 3**.
7. Enlarge the existing holes in the isolator kit mounting bracket to fit the fasteners.
8. Install the new bracket on the shift cable bracket, using the existing capscrew and the new bolt, nut, and washers. See **Fig. 4**. Tighten the existing capscrew 35 lbf-in (395 N-cm), and the new bolt 60 to 84 lbf-in (680 to 950 N-cm).

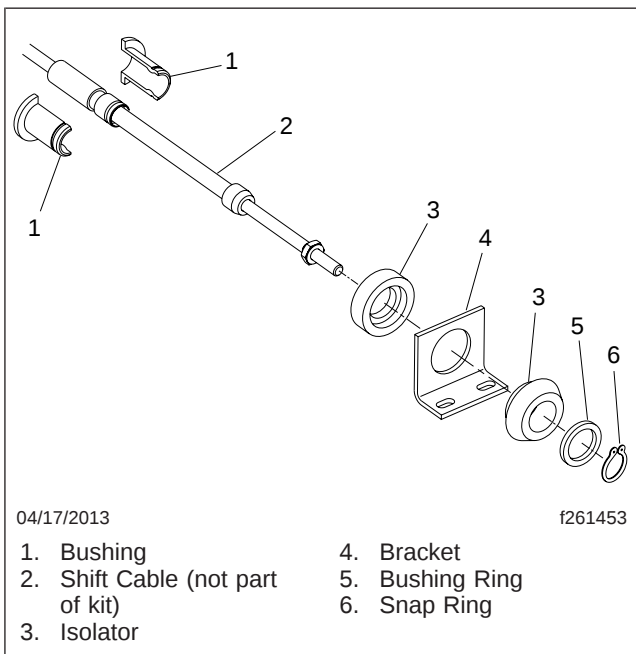


Fig. 2, Isolator Kit KPP 294201

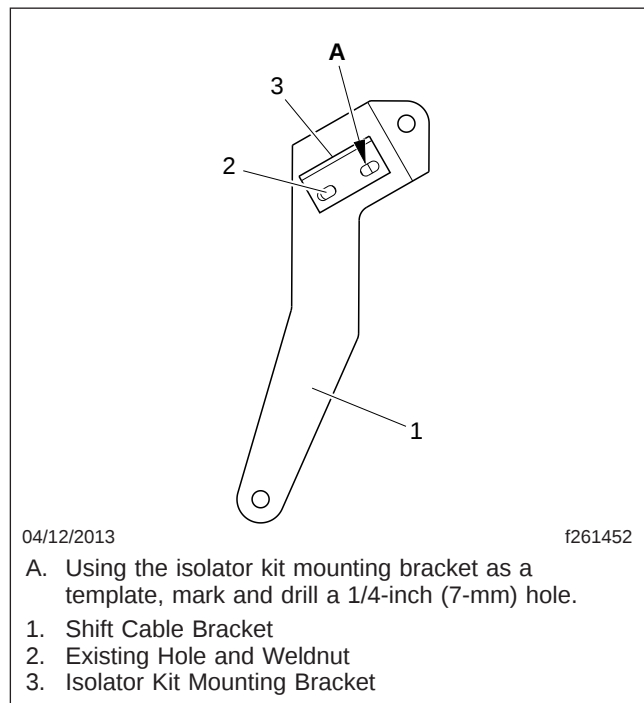


Fig. 3, Locating Isolator Kit Bracket Holes

9. Install the cable in the bracket using the remaining isolator kit parts. Make sure the snap ring is seated in the groove of the plastic bushing; see **Fig. 5**.
10. Install the pivot pin on the shift cable.
11. Install the cable bracket on the transmission. Tighten the capscrews 18 to 21 lbf-ft (24 to 28 N-m).
12. Install the pivot pin on the outboard side of the shift lever, as shown in **Fig. 6**.
13. Make sure the shift control on the dash is set to "Neutral", and the shift lever on the transmission is in the "Neutral" position, as determined by the orientation of the shift lever shaft and the neutral position indicator. See **Fig. 7**.
14. Adjust the position of the pivot pin along the cable rod so it is lined up with the hole in the shift lever. The pin should slide freely in the shift lever hole when the pin is aligned correctly.
15. Tighten the jam nut snugly against the pivot pin.
16. Install the cotter pin on the pivot.

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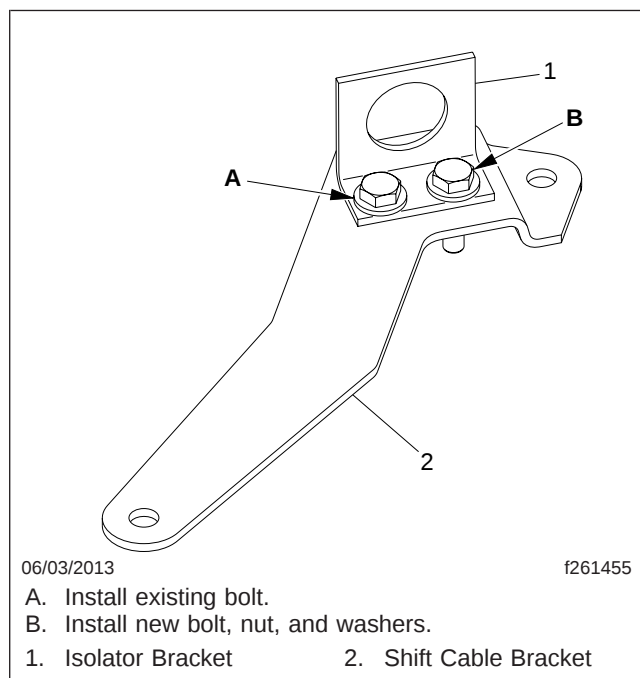


Fig. 4, Isolator Bracket Installation

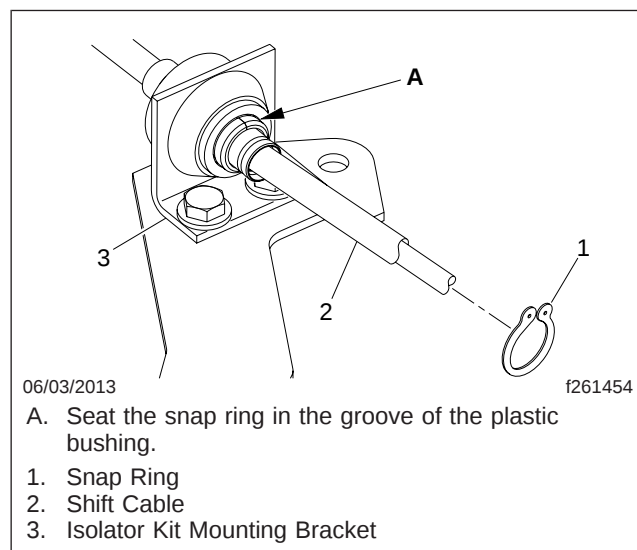


Fig. 5, Snap Ring Installation

17. Make sure that there is clearance between the shift cable and the fuel lines.

Parts

The isolator kit is available through the PDCs. See [Table 1](#).

Parts Required		
Part Number	Description	Qty.
KPP 294201	Isolator Kit, Shift Cable	1
23-10742-075	Bolt	1
23-10900-025	Washer	2
23-13861-104	Nut	1

Table 1, Parts Required

Warranty

This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base or extended coverage warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

Normal warranty applies. See [Table 2](#) for QuickClaim damage code and labor allowance information. Refer to this service bulletin by number at the beginning of the claim comments. See [Table 3](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #* field.

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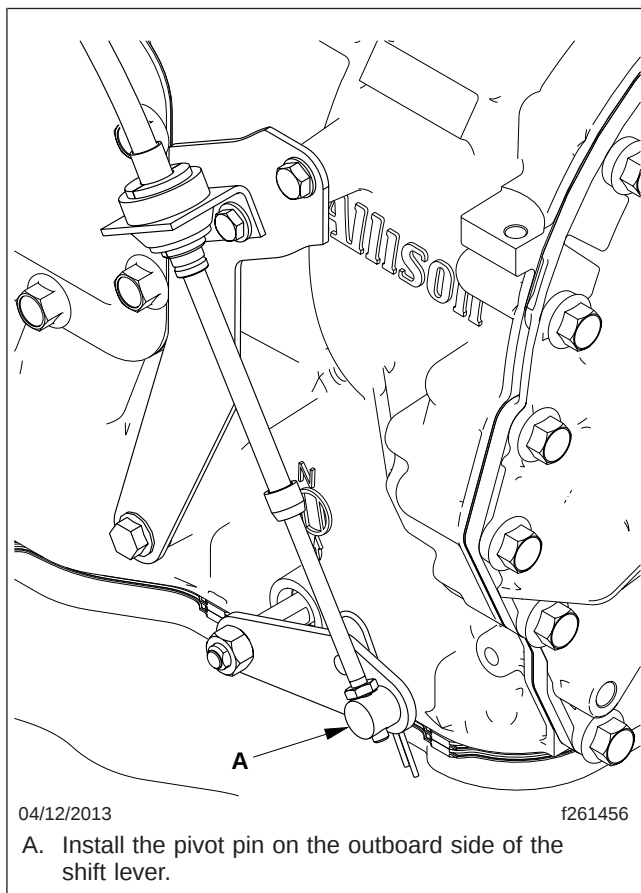


Fig. 6, Isolator Kit Installed

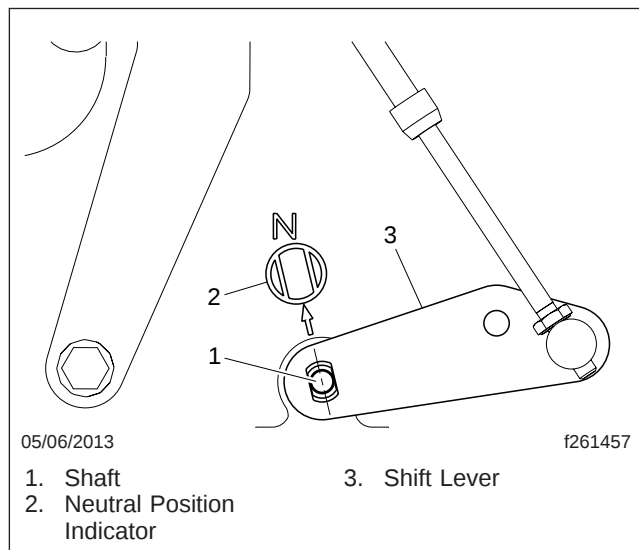


Fig. 7, Neutral Position Indicator

QuickClaim Damage Code and Labor Allowance			
Damage Code	SRT Code	Description	Time: Hours
345-001021940	345-5039A	Isolator, Shift Cable, Install (SB26-50)	0.7

Table 2, QuickClaim Damage Code and Labor Allowance

OWL VMRS Codes and Labor Allowance					
Primary Failed Part	Component Code	Cause Code	SRT Code	Description	Time: Hours
FLD 59520	027-033-086	12	345-5039A	Isolator, Shift Cable, Install (SB26-50)	0.7

Table 3, OWL VMRS Codes and Labor Allowance