



Driveline Maintenance

UPDATE

MODELS AFFECTED: 2008 thru 2010 Visions and All Americans with SPL Series Drivelines

ISSUE

Service Manual Scheduled Maintenance does not include SPL 140 driveline documentation.

CORRECTIVE ACTION

Follow update procedure and place attached pages 3 & 4 of this update in the appropriate sections of your Service Manuals.

PROCEDURE

WARNING Always follow all Federal, State, Local, and Shop safety standards and use proper safety equipment when performing this procedure. In addition to the warnings listed in this publication, also follow all warnings listed in Spicer Life publication "3264-SPL".

Below is a general guideline for removing and installing drivelines and driveline components. For complete instruction and specific details on the Spicer Driveline components, see the Spicer Life publication "3264-SPL" at <http://www2.dana.com/expert-forms/depdf.aspx?prod=JOI>. Do not perform this procedure unless inspection of driveline components warrant. To determine the driveline series installed on the bus, go to the Service Parts List and search for "SHAFT ASSY, SPL".

1.000 EA	00106490	SENSOR, COOLANT, 2007 CAT
1.000 EA	00080729	SENSOR, DC, CURRENT
1.000 EA	00094878	SHAFT ASSY, INTERMEDIATE, STEERING
1.000 EA	00071534	SHAFT ASSY, SPL70, CPLG W
1.000 EA	00098826	SHAFT ASSY, SPL70, CPLG W
1.000 EA	00057614	SHAFT ASSY, SPL70, CPLG W
1.000 EA	00057613	SHAFT ASSY, SPL70, SLIP W
2.000 EA	00065872	SHIELD, FUEL TANK, MOUNT, 100 GALLON
1.000 EA	00107067	SHIELD, HEAT, AIR TANKS, EXHAUST TUBE

1 Park vehicle on a level surface, turn off engine, remove ignition key and chock wheels.

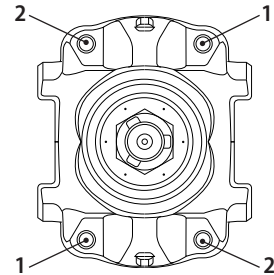
2 Removal of driveline and/or universal joint.

WARNING Secure any driveline components that will be left without the support of hanger bearings or driveline guards.

Remove and discard the capscrews and straps at the universal joints of the driveline section to be removed. Remove driveline section and/or universal joint.

3 Installation of new straps and capscrews at the universal joints.

- **SPL 70 & 100 Series:** Install straps using 3/8"-24 thread capscrews with 3/8" 12 point head. Torque capscrews to 45-60 ft.lbs.
- **SPL 140 Series:** Install straps using 12mm x 1.25 thread capscrews with 1/2" 12 point head. Torque capscrews to 115-135 ft.lbs.



Torque Sequence

Torque bolts in a counter-clockwise sequence starting with either number 1 position.

4 Lubrication and inspection to be performed every 6 months or 25,000 miles whichever occurs first.

- **SPL 70 & 100 Series:** Requires no lubrication. Permanently lubricated.
- **SPL 140 Series:** Lubricate with N.L.G.I. Grade 2 E.P. Grease must have a temperature operating range of +325°F to -10°F (163C to -23C).

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S E R V I C E U P D A T E



UPDATE

- 5** Reinstall any driveline guards that were removed.
- 6** Place vehicle back in service.
- 7** Insert attached pages into appropriate sections of your Service Manuals.

Spicer recommends that all drivelines be inspected for wear and damage every time the bus is serviced. This includes any regular scheduled and/or any unscheduled maintenance that occurs. Follow Spicer's inspection procedures outlined in **Spicer Life publication "3264-SPL"** which includes the maximum amount of movement allowed before a universal joint must be replaced.

PARTS

PART NUMBER	QUANTITY	DESCRIPTION
SPL 70 Series		
01326610	2 per U-joint	Strap, U- Joint, Spl 70
01567486	4 per U-joint	Capscrew, 3/8"-24, Spl 70
04754396	2 per U-joint	Kit, U-Joint Strap, Spl 70
SPL 100 Series		
00057972	2 per U-joint	Strap, U- Joint, Spl 100
01567486	4 per U-joint	Capscrew, 3/8"-24, Spl 100
SPL 140 Series		
00121084	2 per U-joint	Strap, U- Joint, Spl 140
00121085	4 per U-joint	Capscrew, 3/8"-24, Spl 140
00077110	2 per U-joint	Kit, U-Joint Strap, Spl 140

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S E R V I C E U P D A T E

Every 6 Months or 25,000 Miles	
Driveline	
Lubricate Driveshaft Slip Joint (SPL 70 & 100)	Permanently Lubricated (No Action Required)
Lubricate Universal Joints (SPL 70 & 100)	Permanently Lubricated (No Action Required)
Inspect and Tighten Driveline U-Joint Bolts (SPL 70 & 100)	Torque to 45 - 60 ft. lbs.
Lubricate Driveshaft Slip Joint (SPL 140)	N.L.G.I. Grade 2. E.P. Grease must have operating range of +325°F to -10°F (163C to 23C).
Lubricate Universal Joints (SPL 140)	N.L.G.I. Grade 2. E.P. Grease must have operating range of +325°F to -10°F (163C to 23C).
Inspect and Tighten Driveline U-Joint Bolts (SPL 140)	Torque to 115 - 135 ft. lbs.

Spicer recommends that all drivelines be inspected for wear and damage every time the bus is serviced. This includes any regular scheduled and/or any unscheduled maintenance that occurs. Follow Spicer's inspection procedures outlined in Spicer Life publication "3264-SPL".

Drive Line

The purpose of the driveline is to transmit torque from the transmission to the drive wheels of the vehicle.

WARNING Before continuing with these instructions, please refer to the safety instructions in the Introduction Section of this Service Manual.

WARNING Never work under the bus while the engine is running.

Removal

To remove the driveline from the transmission:

1. Mark the driveline section to be removed, to show the installation orientation. The driveline must be replaced correctly to avoid out-of-phase problems.
2. Carefully support any driveline components that will be left without the normal operational support members (hanger bearings).
3. Remove and discard the capscrews and straps at the universal joints necessary to remove the desired driveline section.

Reinstallation

1. Carefully position the driveline components while observing the previously marked phase indications.
2. Install new straps and hardware at the universal joints.
 - **SPL 70 & 100:** Torque 3/8"-24 thread capscrews with 3/8" 12 point head to 45–60 ft. lbs.
 - **SPL 140:** Torque 12mm x 1.25 thread capscrews with 1/2" 12 point head to 115–135 ft. lbs.
3. Lube grease fittings on **SPL140** driveline with N.L.G.I. Grade 2 E.P. Lubricant must have an operating range of +325°F to -10°F.
4. Ensure all driveline guards are securely in place before starting the engine.

