

---

## Drive Train Shudder

---

|                   |                       |
|-------------------|-----------------------|
| Topic number      | LI41.10-N-038141      |
| Version           | 1                     |
| Design group      | 41.10 Propeller shaft |
| Date              | 03-24-2006            |
| Validity          | Sprinter MY02-06      |
| Reason for change |                       |

---

### Complaint:

Vibrations in drive train during initial acceleration through 2nd gear.

### Cause:

Unfavorable propeller shaft inclination angle with medium and short wheelbase.

### Remedy:

Repositioning of propeller shaft intermediate support bearing with shim by roughly 3/4" to the right and 3/8" downwards.

- Remove bolts and securing strap
- Remove bolts of intermediate bearing and lower the propellershaft assembly
- Insert the shim plate in a way that the propellershaft will move to the right side of the vehicle (away from the fuel tank)
- Use bolts (05132753AA) to secure the shim plate and tighten them to 70 lbs-ft
- Install the intermediate bearing to the shim plate
- Use nuts (06104718AA) to secure the intermediate bearing and tighten them to 77 lbs-ft
- Install the asymmetric securing strap and tighten bolts to 74 lbs-ft

### Attachments

| File                             | Designation   |
|----------------------------------|---|
| Shim installation.JPG            | Installation of shim plate in a way that the propeller shaft moves to the right side of the vehicle |
| Propeller shaft installation.JPG | Installation of the propeller shaft intermediate bearing under the shim plate                       |
| Strap.JPG                        | Compare shape of original (symmetric) an new (asymmetric) strap                                     |
| Strap installation.JPG           | Installation of strap   |
| Prop shaft.jpg                   | Assembly: 1 Shim / 3 Propeller Shaft Assembly / 13 Strap  |

### Symptoms

|   |
|---|
| Power transmission / Power transmission, noise / Throbbing/intermittent humming                 |
| Power transmission / Power transmission, function / Vibrations                                  |
| Power transmission / Automatic transmission / Automatic transmission - noises / Humming/droning |
| Power transmission / Automatic transmission / Automatic transmission - noises / Rattling        |

|  |
|--|
| Power transmission / Power transmission, noise / Humming/droning |
|--|

| Parts |  |  |  |  |  |
|-------|--|--|--|--|--|
|-------|--|--|--|--|--|

| Part number | Designation        | Quantity | Note                | EPC<br>net | Non-<br>EPC |
|-------------|--------------------|----------|---------------------|------------|-------------|
| 05129042AA  | Strap (asymmetric) | 1        | MB #: A9034110040   | X          |             |
| 05129044AA  | Shim               | 1        | MB #: A9034110084   | X          |             |
| 05132753AA  | Bolt               | 2        | MB #: A0049903112   | X          |             |
| 06104718AA  | Nut                | 2        | MB #: N913023012002 | X          |             |