

TRANSMISSION

APPLICATION

This inspection applies to all vehicles including Hybrid Electric Vehicles (HEVs), Electric Vehicles (EVs) and to trailers with driven axles.

PROCEDURE AND STANDARDS

- Check all relevant transmission components, where possible, for wear, security and condition.
- Check for contamination and deterioration of flexible coupling
- Vehicles must be in neutral gear and with any transmission brake released during this inspection.
- The presenter should be advised if any shaft or carrier locking device is missing or ineffective.
- Failure for excessive wear of a universal joint is only justified when radial movement indicates that needle roller bearings are missing from one or more cups.
- Propeller shaft spline wear is not a Reason for Failure.
- A power take off prop shaft universal joint is not subject to this inspection.
- Transmission shafts include those shafts that transmit drive for HEVs and EVs.

REASONS FOR FAILURE

	Deficiency Category
1. All vehicles with:	
a. A loose or missing propshaft flange bolt.	MAJOR
b. A Loose or missing propshaft flange bolts to such an extent that detachment is likely.	DANGEROUS

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| c. | Any flange cracked or loose. | MAJOR |
| d. | Any flange cracked to such an extent that detachment is likely. | DANGEROUS |
| e. | Excessive wear in a shaft bearing. | MAJOR |
| f. | Excessive wear in a shaft bearing to such an extent that detachment is likely. | DANGEROUS |
| g. | A bearing housing insecure, cracked or fractured. | MAJOR |
| h. | A bearing housing insecure, cracked or fractured to such an extent that detachment is likely. | DANGEROUS |
| i. | Excessive wear in a universal joint. | MAJOR |
| j. | Excessive wear in a universal joint to such an extent that detachment is likely. | DANGEROUS |
| k. | Deterioration of a flexible coupling. | MAJOR |
| l. | Deterioration of a flexible coupling such that failure is imminent. | DANGEROUS |
| m. | A seriously damaged, cracked or bent shaft or a shaft which is fouling on other components. | MAJOR |
| n. | Deterioration, fracture or insecurity of a bearing housing flexible mounting. | MAJOR |
| o. | Deterioration, fracture or insecurity of a bearing housing flexible mounting such that failure is imminent. | DANGEROUS |
| 2. | Front wheel drive shafts with: | |
| a. | A constant velocity or universal joint excessively worn or insecure. | MAJOR |
| b. | A constant velocity or universal joint excessively worn or insecure to such an extent that failure is imminent. | DANGEROUS |
| c. | A flexible coupling severely cracked, softened or breaking up. | MAJOR |
| d. | A flexible coupling severely cracked, softened or breaking up such that failure is imminent. | DANGEROUS |
| e. | A constant velocity gaiter insecure, damaged or deteriorated but not to the extent that it would no longer | MINOR |

prevent the ingress of dirt etc.

- f. A constant velocity gaiter missing, insecure, excessively damaged or severely deteriorated to the extent that it would no longer prevent the ingress of dirt etc.

MAJOR