

<b>Subject:</b> <b>4WD - FRONT TIRES SPINNING AND / OR 4WD / DSC LIGHT FLASHES WHEN DRIVING UPHILL OR TAKING OFF</b>	<b>Bulletin No:</b> 03-001/12
	<b>Last Issued:</b> 11/28/2012

## BULLETIN NOTE

- This bulletin supersedes the previous bulletin 03-001/12, issued on 01/11/2012, 03-005/11, issued on 11/29/2011 and 03-005/08, issued on 05/23/2008. The APPLICABLE MODEL(S)/VINS, PARTS, and WARRANTY INFORMATION have been revised.
- Changes are noted below in Red beside the change bar.

## APPLICABLE MODEL(S)/VINS

2007-2013 CX-9 vehicles with 4WD

## DESCRIPTION

Some vehicles may experience the front tire spinning and/or 4WD/DSC light flashes with no DTCs stored when driving uphill or taking off from a stop using hard acceleration.

Customers having this concern should have their vehicle repaired using the following repair procedure.

## REPAIR PROCEDURE

### WARNING:

- **DO NOT** turn on the engine during the procedure, people are near the drive wheels and the vehicle could fall off the hoist causing serious injury to people around the vehicle.

### NOTE:

- This procedure will require 3 people.
1. Verify customer concern:
    - a. With one person in the vehicle, safely raise and support the vehicle so all wheels are off the ground.
    - b. Turn the ignition switch to the ON position (ENGINE OFF).
    - c. Apply parking brake to prevent the rear wheels from rotating.
    - d. Shift the selector lever to drive (D) position.
    - e. Depress accelerator pedal fully to engage electronic control coupling.
    - f. While depressing and holding the accelerator pedal, have 2 people try rotating both front tires by hand in the same direction.
    - g. If both front tires can be rotated, confirm rear propeller shaft operation.
      - If the rear propeller shaft DOES NOT rotate, go to STEP 2.
      - If the rear propeller shaft DOES rotate, diagnose further and repair as necessary. Refer to Workshop Manual section 03 - DRIVELINE / AXLE.
  2. Replace the transfer unit. Refer to Workshop Manual section 03-16 TRANSFER REMOVAL / INSTALLATION.
  3. Verify repair.

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## PART(S) INFORMATION

Part Number	Description	Qty.
AW21-27-500K-9U	Transfer unit	1

## WARRANTY INFORMATION

### NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda's Powertrain Limited Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	92
Damage Code	9K
Part Number Main Cause	AW21-27-500K-9U
Quantity	1
Operation Number / Labor Hours:	XXD1XXRX / 2.3 Hrs.