

# DRIVE AXLE - REAR

1994 Mitsubishi 3000GT

1994 Drive Axles - RWD Axle Shafts

Stealth, 3000GT

## \* PLEASE READ THIS FIRST \*

NOTE: Information in this article applies only to AWD models with independent rear suspension. For other models, see appropriate DIFFERENTIALS & AXLE SHAFTS article.

## DESCRIPTION & OPERATION

Power from differential is transferred to rear wheels by 2 axle shafts. Both axle shafts use CV joints at inner and outer ends. CV joints are enclosed in CV boots, and are connected by an interconnecting shaft. Interconnecting shaft is splined on both ends. A retaining ring retains inner CV joint in differential side gear. Outer CV joint is attached to stub axle shaft.

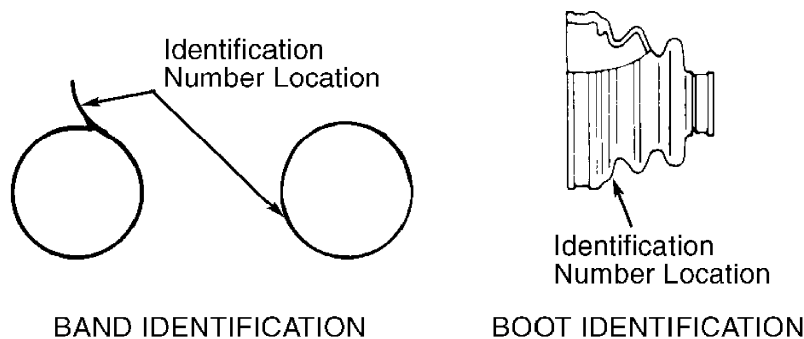
## TROUBLE SHOOTING

NOTE: See TROUBLE SHOOTING - BASIC PROCEDURES article in the GENERAL TROUBLE SHOOTING section.

## BAND & BOOT IDENTIFICATION

Band identification numbers are stamped on inside edge of band. See Fig. 1. Boot identification numbers are stamped on the largest ridge of boot. See BAND & BOOT APPLICATION table.

NOTE: The following are possible types of Constant Velocity (CV) joints used on axle shaft: Birfield Joint (BJ), Double Offset Joint (DOJ) and Tripod Joint (TJ). Determine type of CV joint used prior to disassembly. Note type of boot and location prior to removal. See BAND & BOOT APPLICATION table. Install a NEW retaining ring each time axle shaft is removed from differential side gear.



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Fig. 1: Locating Band & Boot Identification Numbers  
Courtesy of Mitsubishi Motor Sales of America.

BAND & BOOT APPLICATION TABLE

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## Application Identification Numbers

BJ		
Large Band	.....	20-74
Small Band	.....	(2)
Boot	.....	(1)
TJ		
Large Band	.....	20-75
Small Band	.....	(1)
Boot	.....	(1)

- (1) - Boots and bands are packaged as a kit. Kits are broken down by type of joint. No identification numbers given by manufacturer.
- (2) - Left axle shaft band is White. Right axle shaft band is Blue.
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## REMOVAL, DISASSEMBLY, REASSEMBLY & INSTALLATION

### AXLE SHAFT

CAUTION: DO NOT place vehicle weight on hub assembly with axle shaft removed.

#### Removal & Installation

1) Raise and support vehicle. Unbolt axle shaft from stub axle shaft. Pry axle shaft from differential using flat-blade screwdriver. Ensure seal is not damaged by axle shaft splines during removal. Remove oil seal from differential carrier (if necessary).

2) To install, reverse removal procedure. Using Seal Installer (C-3893), install oil seal in differential. Coat seal lip with grease. Install new retaining ring on axle shaft. Install axle shaft in differential carrier. Install companion flange bolts.

NOTE: Always replace retaining clip when axle shaft has been removed.

### TRIPOD JOINT (TJ) ASSEMBLY

NOTE: BJ and shaft assembly cannot be disassembled. DO NOT attempt to disassemble.

#### Disassembly

Remove axle shaft. Remove boot bands from inner CV joint (TJ). Scribe alignment marks (for reassembly reference) on shaft, TJ case and spider assembly. Remove TJ case, snap ring and spider assembly. Remove boot bands from outer CV joint (BJ). Wrap axle shaft splines with tape and remove CV boots. See Fig. 2.

#### Reassembly

1) To reassemble, reverse disassembly procedure. If reusing BJ and shaft assembly, pack BJ with specified quantity of CV joint grease. See TRIPOD JOINT (TJ) ASSEMBLY SPECIFICATIONS table. Install CV joint boots and clamps on axle shaft. Lubricate and assemble TJ.

2) Align reference marks made during disassembly and install TJ assembly. Install snap ring. Pack TJ and boot with specified quantity of CV joint grease. See TRIPOD JOINT (TJ) ASSEMBLY SPECIFICATIONS table.

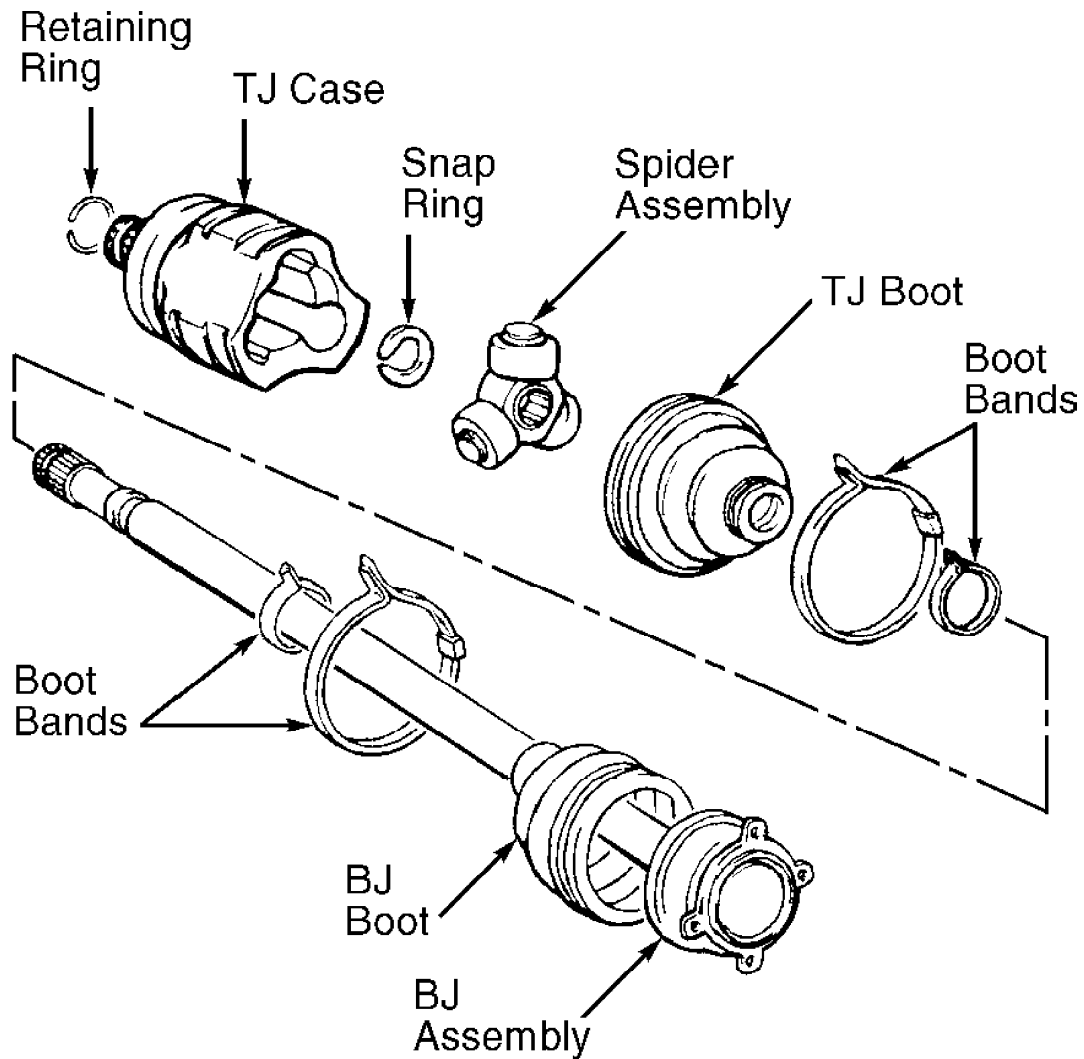
3) Tighten the large CV boot band in straight position. Set the CV boot length to proper specification. See Fig. 2. See the TRIPOD JOINT (TJ) ASSEMBLY SPECIFICATIONS table. Tighten small CV boot

band. Install axle shaft.

TRIPOD JOINT (TJ) ASSEMBLY SPECIFICATIONS TABLE

Application	In. (mm)
Drive Axle Shaft Dimensions	
Length (Both Shafts) .....	15.6 (396.2)
TJ Boot Length .....	3.23-3.47 (82-88)
CV Joint Grease Capacity	
TJ .....	(1) 4.8 (135)

(1) - Split grease equally between boot and joint.



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Fig. 2: Exploded View Of Axle Shaft Assembly  
Courtesy of Mitsubishi Motor Sales of America.

STUB AXLE SHAFTS

#### End Play Check

Place dial indicator stem on rear axle flange near lug nut. Check stub axle shaft end play. If end play is greater than .031" (.8 mm), check torque of companion flange nut. See TORQUE SPECIFICATIONS TABLE at the end of this article. If torque is as specified, replace inner and outer bearings.

#### Removal

1) Raise and support vehicle on safety stands. Remove rear wheels. Remove rear speed sensor (if equipped). See Fig. 3. Disconnect parking brake cable from rear brake caliper assembly. Remove rear caliper assembly and rotor. Support caliper assembly away from work area with wire.

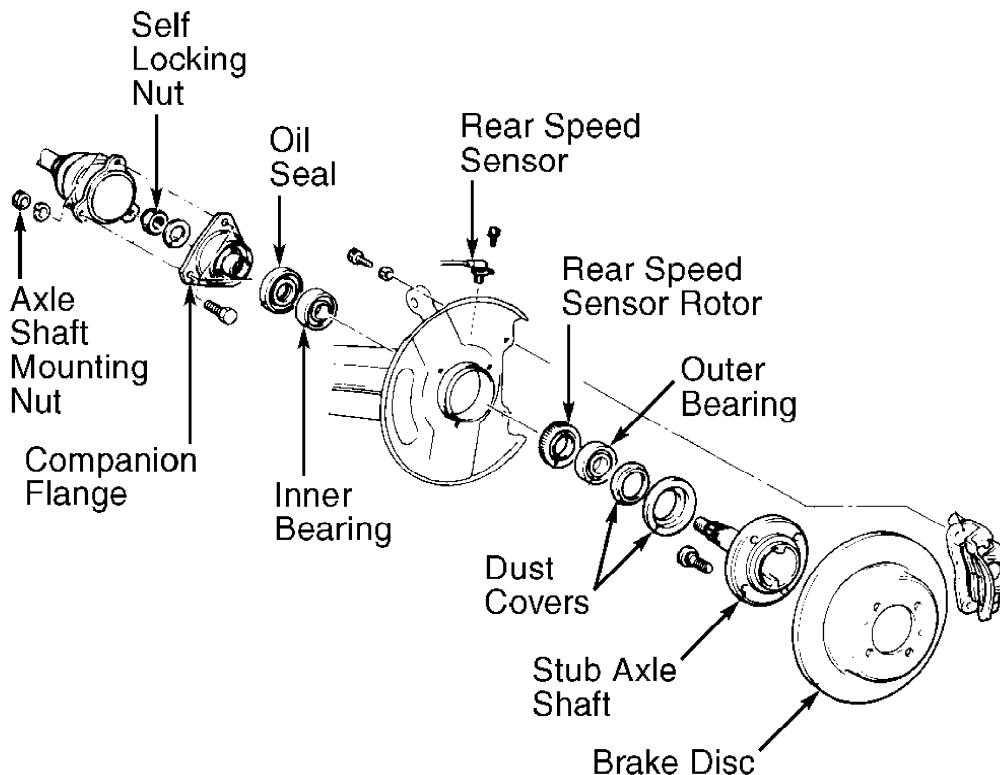
2) Scribe index marks on flange yoke and companion flange. Remove axle shaft mounting bolts. Remove self-locking nut with Nut Remover/Installer (MB990767-01). Separate axle from flange.

3) Remove axle shaft from trailing arm using Slide Hammer (MB990211-01) and Adapter (MB990241-01). Slide hammer attachment fits on outboard end of axle shaft flange.

NOTE: When removing axle shaft spline, DO NOT damage oil seal.

#### Disassembly

Remove rear speed sensor rotor (if equipped). See Fig. 3. Remove outer bearing and dust cover from axle shaft. Remove axle shaft. Remove oil seal using Handle (MB990938-01) and Seal Remover/Installer (MB990928-01). Remove inner bearing.



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Fig. 3: Exploded View Of Stub Axle Shaft  
Courtesy of Mitsubishi Motor Sales of America.

#### Inspection

Check companion flange for wear or damage. Check dust cover

for deformation or damage. Check wheel bearings for burning, discoloration or rough rotation. Check axle shaft for cracking, wear or damage. Check oil seal for cracking or damage.

#### Reassembly & Installation

1) To reassemble and install, reverse disassembly and removal procedures. When installing inner bearing, use Handle (MB990938-01) and Seal Remover/Installer (MB990931-01). Use Seal Installer (MB990799-01) to install oil seal and dust cover.

2) Tighten all the components to proper specification. See TORQUE SPECIFICATIONS TABLE at the end of this article. Ensure axle shaft end play is within service limit.

### TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Brake Caliper Bolt .....	36-43 (49-58)
Companion Flange Nut	
Non-Turbo .....	137 (186)
Turbo .....	188-217 (255-294)
Axle Flange-To-Axle	
Shaft Flange Bolt .....	40-47 (54-64)
Wheel Lug Nut .....	87-101 (118-137)
	INCH Lbs. (N.m)
Rear Speed Sensor Bolts .....	84-120 (9-14)