

# REAR PROPELLER SHAFT

< UNIT DISASSEMBLY AND ASSEMBLY >

[PROPELLER SHAFT: 3S1310]

## UNIT DISASSEMBLY AND ASSEMBLY

### REAR PROPELLER SHAFT

#### Disassembly and Assembly

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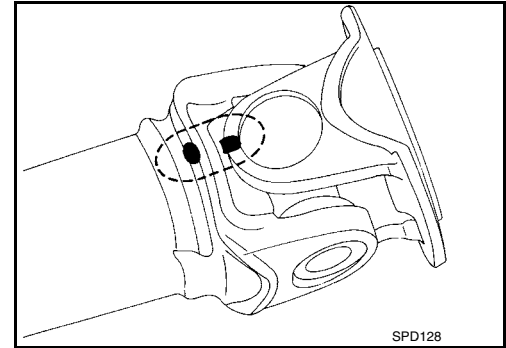
#### DISASSEMBLY

##### Journal

1. Remove the propeller shaft assembly from the vehicle. Refer to [DLN-152. "Removal and Installation"](#).
2. Put matching marks on the rear propeller shaft tube and flange yoke as shown.

**CAUTION:**

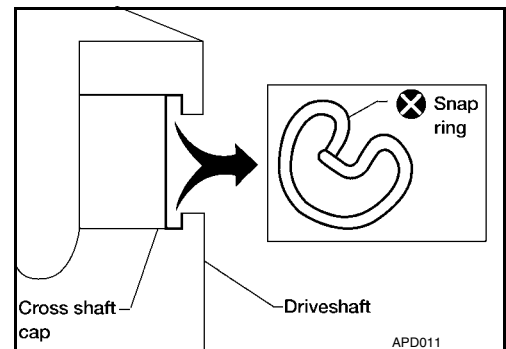
For matching marks use paint. Do not damage the rear propeller shaft or flange yoke.



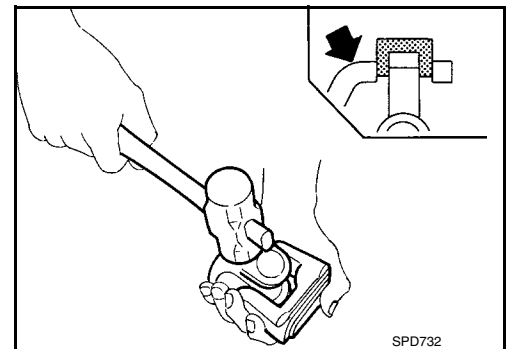
3. Remove the snap rings.

**CAUTION:**

Do not reuse snap rings.



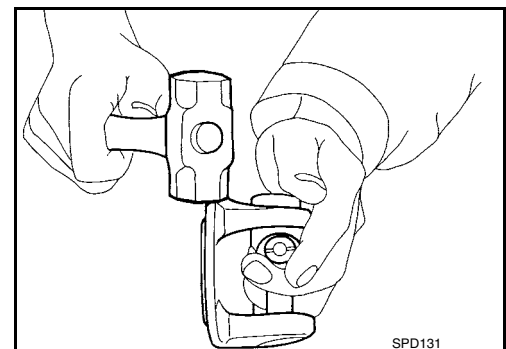
4. Push out and remove the journal bearing by lightly tapping the yoke with a hammer, taking care not to damage the journal or yoke hole.



5. Remove the bearing at the opposite side of above operation.

**NOTE:**

Put marks on the disassembled parts so that they can be reinstalled in their original positions from which they were removed.



# REAR PROPELLER SHAFT

< UNIT DISASSEMBLY AND ASSEMBLY >

[PROPELLER SHAFT: 3S1310]

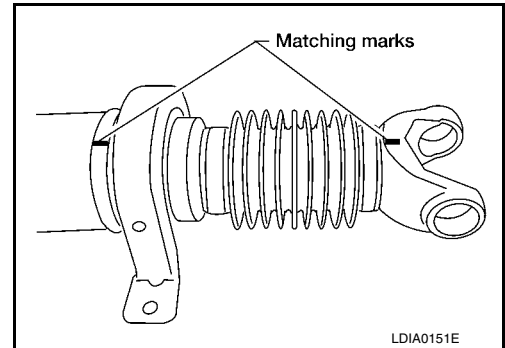
## Center Support Bearing

1. Remove the propeller shaft assembly from the vehicle. Refer to [DLN-152. "Removal and Installation"](#).
2. Put matching marks on the propeller shaft tube and the slip yoke.

**CAUTION:**

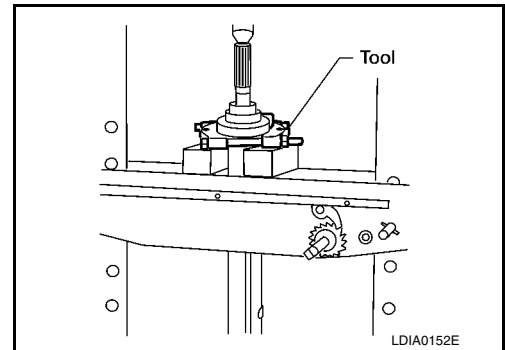
**For matching marks, use paint. Do not damage the propeller shaft tube or slip yoke.**

3. Remove and discard the clamp near the center support bearing, then slide the slip yoke off of propeller shaft tube.



4. Press the center support bearing off the propeller shaft tube using Tool and suitable hydraulic press.

**Tool number : 205-D002 ( — )**



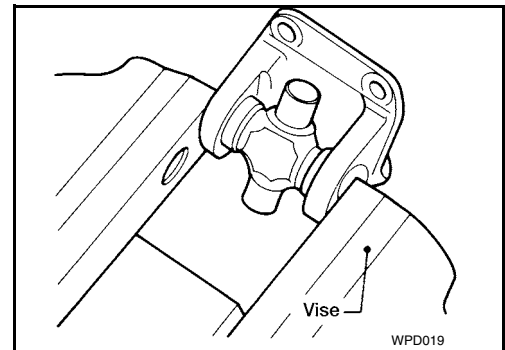
## ASSEMBLY

### Journal

1. Assemble the journal bearings. Apply multipurpose grease on the bearing inner surface.

**NOTE:**

During assembly, use caution so that the needle bearings do not fall down.



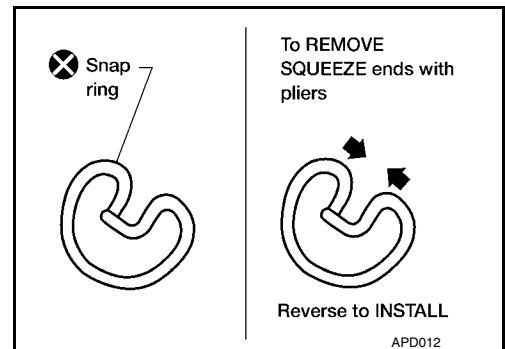
2. Select snap rings that will provide the specified play in an axial direction of the journal, and install them. Refer to [DLN-158. "Snap Ring"](#).

**CAUTION:**

**Do not reuse snap rings.**

**NOTE:**

Select snap rings with a difference in thickness at both sides within 0.02 mm (0.0008 in).



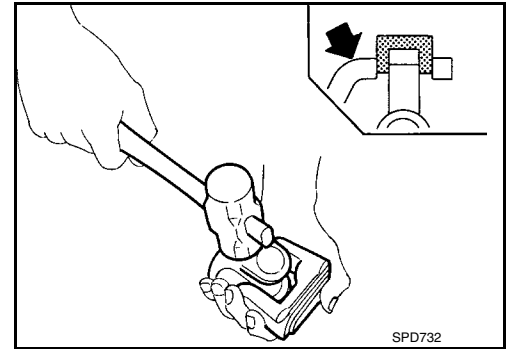
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# REAR PROPELLER SHAFT

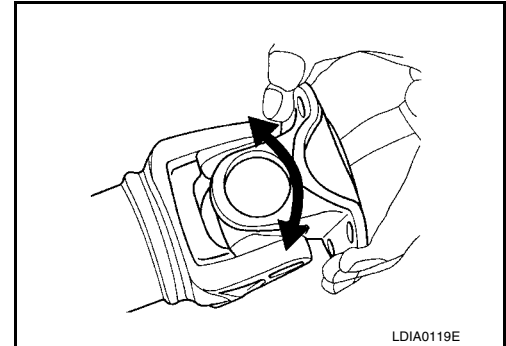
< UNIT DISASSEMBLY AND ASSEMBLY >

[PROPELLER SHAFT: 3S1310]

3. Adjust the thrust clearance between the bearing and snap ring to zero by tapping the yoke.

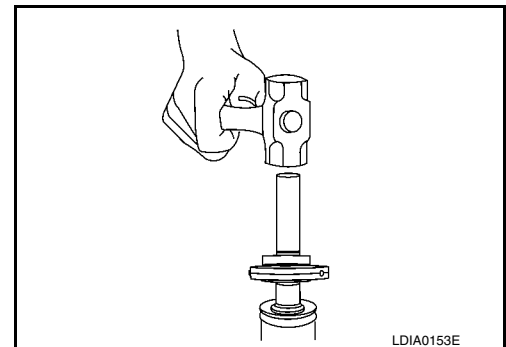


4. Make sure that the journal moves smoothly and is below the joint flex effort specification. Refer to [DLN-158, "General Specification"](#).

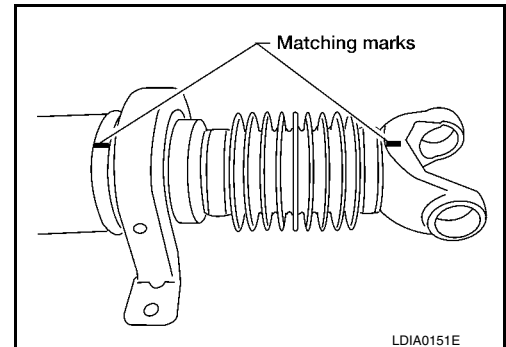


## Center Support Bearing

1. Apply a thin coat of multi-purpose grease to both the propeller shaft tube and the inside surface of the center support bearing.
2. Install the center support bearing on the propeller shaft tube using a suitable pipe pressing on the inner race.



3. Install a new clamp over the boot on the slip yoke.
4. Align the matching marks and install the slip yoke on the propeller shaft tube.



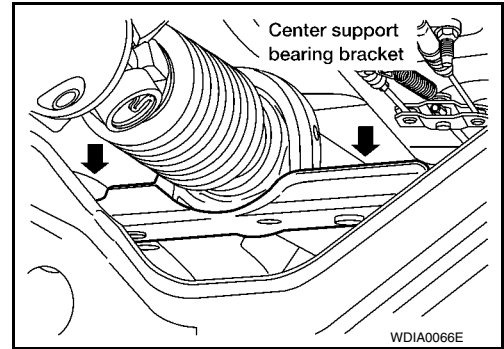
5. Clean the surfaces and position the boot over the propeller shaft tube and tighten the clamp.

# REAR PROPELLER SHAFT

< UNIT DISASSEMBLY AND ASSEMBLY >

[PROPELLER SHAFT: 3S1310]

6. Install the center support bearing bracket, then install the rear propeller shaft assembly in the vehicle. Refer to [DLN-152, "Removal and Installation"](#).



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# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[PROPELLER SHAFT: 3S1310]

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### General Specification

INFOID:0000000012566226

Applied model	QR25DE
	2WD
	M/T      A/T
Propeller shaft model	3S1310
Number of joints	3
Coupling method with rear final drive	Flange type
Coupling method with transmission	Sleeve type
1st Shaft length (Center bearing to spider)	741.5 ± 1.5 mm (29.19 ± 0.06 in)
2nd Shaft length (Spider to spider)	779.8 ± 1.5 mm (30.70 ± 0.06 in)
Shaft outer diameter	76.2 + 0.00/- 0.13 mm (3.00 +0.00/- 0.01 in)
Journal axial play	0.02 mm (0.0008 in) or less
Propeller shaft runout limit	0.6 mm (0.024 in) or less
Propeller shaft joint flex effort	2.26 N·m (0.23 kg·m, 20 in·lb) or less

#### Snap Ring

INFOID:0000000012566227

Unit: mm (in)

Thickness	Color	Part Number*
1.99 (0.0783)	White	37146-C9400
2.02 (0.0795)	Yellow	37147-C9400
2.05 (0.0807)	Red	37148-C9400
2.08 (0.0819)	Green	37149-C9400
2.11 (0.0831)	Blue	37150-C9400
2.14 (0.0843)	Light brown	37151-C9400
2.17 (0.0854)	Black	37152-C9400
2.20 (0.0866)	No paint	37153-C9400

\*: Always check with the Parts Department for the latest parts information.

# PRECAUTION

## PRECAUTIONS

### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000012566228

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

**WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

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# PREPARATION

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[3S1330]

## PREPARATION

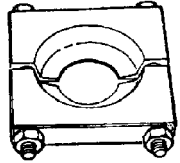
### PREPARATION

#### Special Service Tools

INFOID:000000012566229

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
205-D002 ( — ) Bearing splitter	Removing center support bearing assembly

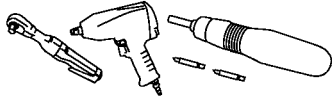


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#### Commercial Service Tool

INFOID:000000012566230

Tool name	Description
Power tool	Loosening nuts, screws and bolts



PIIB1407E

# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYSTEM DESCRIPTION >

[3S1330]

## SYSTEM DESCRIPTION

### NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

#### NVH Troubleshooting Chart

INFOID:000000012566231

Use the chart below to help you find the cause of the symptom. If necessary, repair or replace these parts.

Symptom	Possible cause and suspected parts											
	Uneven rotation torque	Rotation imbalance	Excessive run out	Differential	Axle	Suspension	Tires	Road wheel	Drive shaft	Brakes	Steering	
Noise	x	x	x	x	x	x	x	x	x	x	x	x
Shake					x	x	x	x	x	x	x	x
Vibration	x	x	x		x	x	x		x			x

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## BASIC INSPECTION

### PROPELLER SHAFT ASSEMBLY

#### Inspection

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#### APPEARANCE AND NOISE INSPECTION

Check the propeller shaft tube surface for dents or cracks. If damaged, replace the propeller shaft assembly.

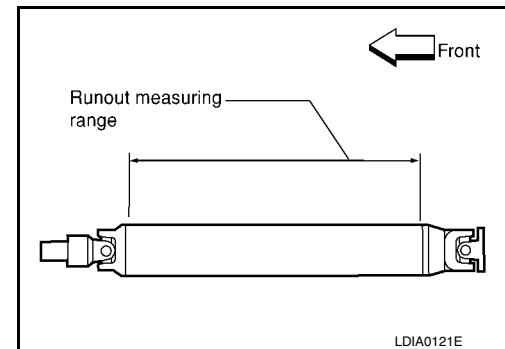
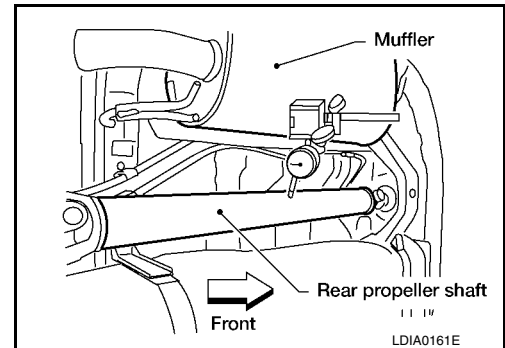
#### PROPELLER SHAFT VIBRATION

If a vibration is present at high speed, inspect the propeller shaft runout first.

1. Measure the runout of the propeller shaft tube at several points by rotating the final drive companion flange with your hands.

#### Propeller shaft runout limit

**2WD** : Refer to [DLN-169, "General Specification"](#)



2. If the runout exceeds specifications, disconnect the propeller shaft at the final drive companion flange; then rotate the companion flange 90°, 180° and 270° and reconnect the propeller shaft.
3. Check the runout again. If the runout still exceeds specifications, replace the propeller shaft assembly.
4. After installation, check for vibration by driving vehicle.



# REAR PROPELLER SHAFT

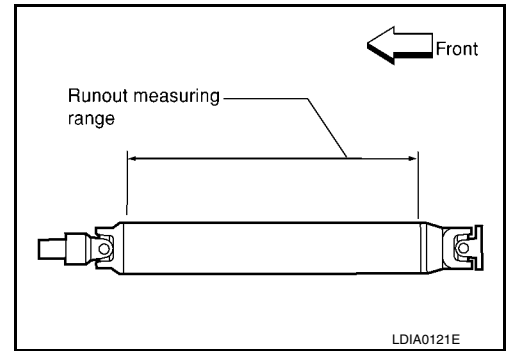
[3S1330]

## < UNIT REMOVAL AND INSTALLATION >

- Inspect the propeller shaft runout. If runout exceeds the limit, replace the propeller shaft assembly.

### Propeller shaft runout limit

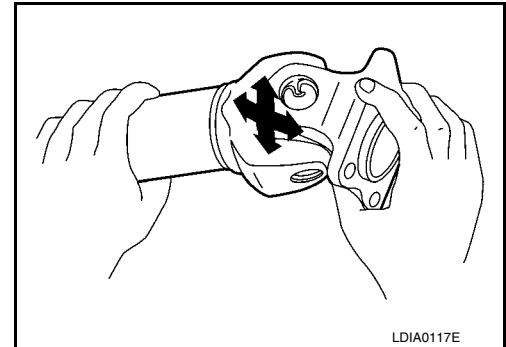
2WD : Refer to [DLN-169, "General Specification"](#)



- While holding the flange yoke on one side, check axial play of the joint as shown. If the journal axial play exceeds the specification, repair or replace the journal parts.

Journal axial play : Refer to [DLN-169, "General Specification"](#)

- Check the propeller shaft for dents or cracks. If damage is detected, replace the propeller shaft assembly.



## INSTALLATION

Installation is in the reverse order of removal.

- After installation, check for vibration by driving the vehicle. Refer to [DLN-161, "NVH Troubleshooting Chart"](#).

### CAUTION:

Do not reuse the bolts and nuts. Always install new ones.

# REAR PROPELLER SHAFT

< UNIT DISASSEMBLY AND ASSEMBLY >

[3S1330]

## UNIT DISASSEMBLY AND ASSEMBLY

### REAR PROPELLER SHAFT

#### Disassembly and Assembly

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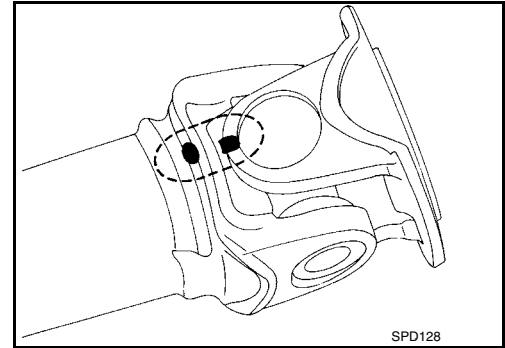
#### DISASSEMBLY

##### Journal

1. Remove the propeller shaft assembly from the vehicle. Refer to [DLN-163. "Removal and Installation"](#).
2. Put matching marks on the rear propeller shaft tube and flange yoke as shown.

**CAUTION:**

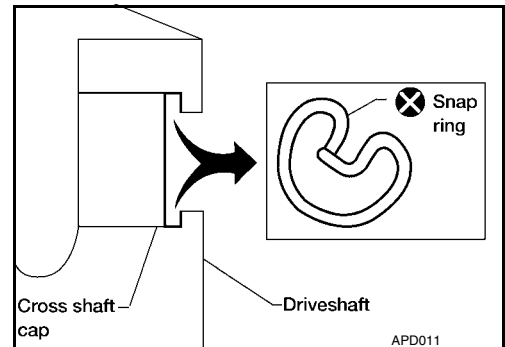
For matching marks use paint. Do not damage the rear propeller shaft or flange yoke.



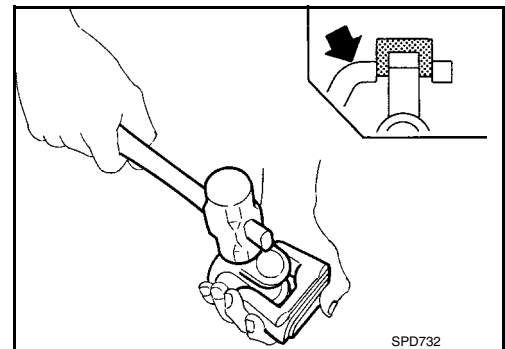
3. Remove the snap rings.

**CAUTION:**

Do not reuse snap rings.



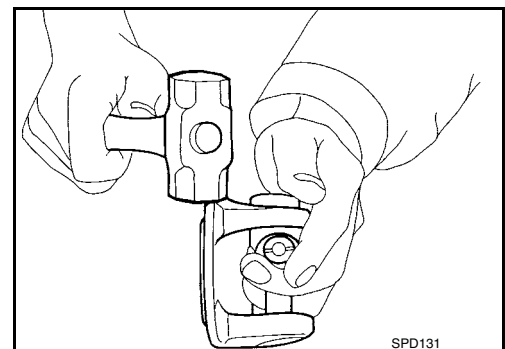
4. Push out and remove the journal bearing by lightly tapping the yoke with a hammer, taking care not to damage the journal or yoke hole.



5. Remove the bearing at the opposite side of above operation.

**NOTE:**

Put marks on the disassembled parts so that they can be reinstalled in their original positions from which they were removed.



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# REAR PROPELLER SHAFT

< UNIT DISASSEMBLY AND ASSEMBLY >

[3S1330]

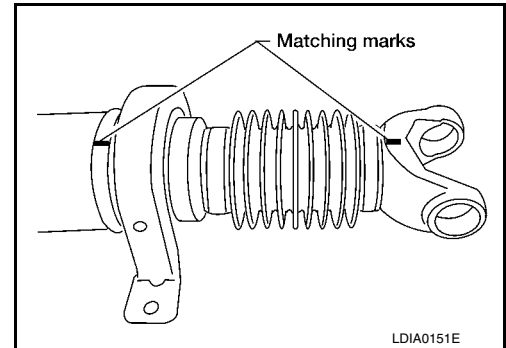
## Center Support Bearing

1. Remove the propeller shaft assembly from the vehicle. Refer to [DLN-163, "Removal and Installation"](#).
2. Put matching marks on the propeller shaft tube and the slip yoke.

**CAUTION:**

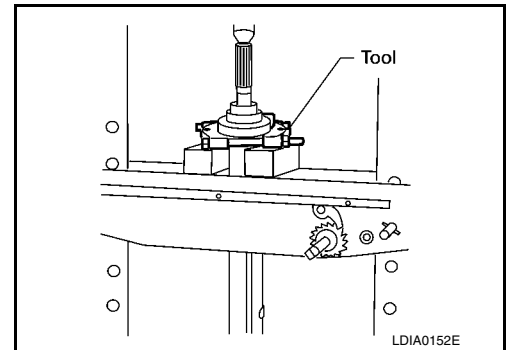
**For matching marks, use paint. Do not damage the propeller shaft tube or slip yoke.**

3. Remove and discard the clamp near the center support bearing, then slide the slip yoke off of propeller shaft tube.



4. Press the center support bearing off the propeller shaft tube using Tool and suitable hydraulic press.

**Tool number : 205-D002 ( — )**



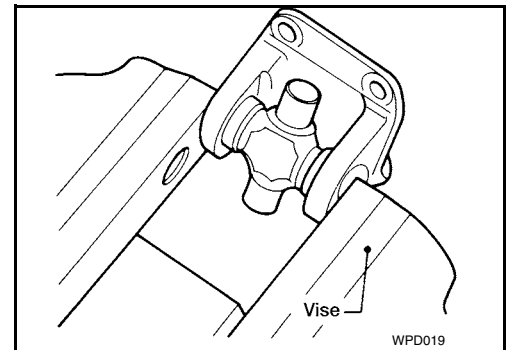
## ASSEMBLY

### Journal

1. Assemble the journal bearings. Apply multipurpose grease on the bearing inner surface.

**NOTE:**

During assembly, use caution so that the needle bearings do not fall down.



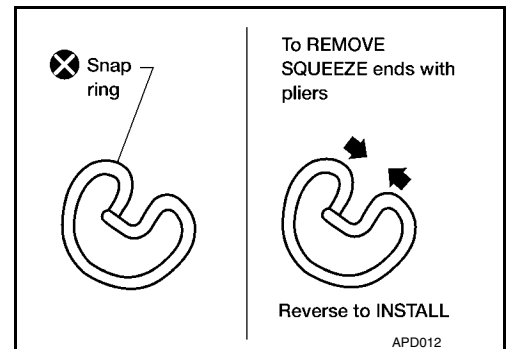
2. Select snap rings that will provide the specified play in an axial direction of the journal, and install them. Refer to [DLN-169, "Snap Ring"](#).

**CAUTION:**

**Do not reuse snap rings.**

**NOTE:**

Select snap rings with a difference in thickness at both sides within 0.02 mm (0.0008 in).

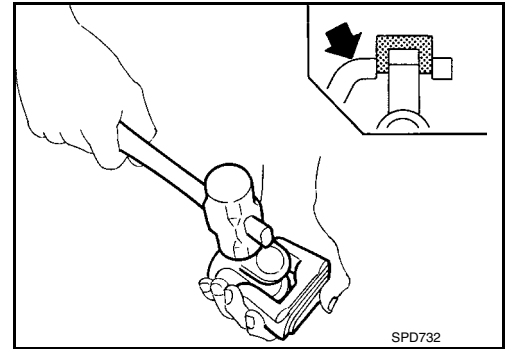


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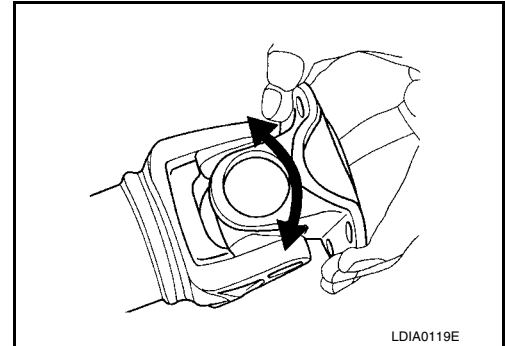
< UNIT DISASSEMBLY AND ASSEMBLY >

[3S1330]

3. Adjust the thrust clearance between the bearing and snap ring to zero by tapping the yoke.

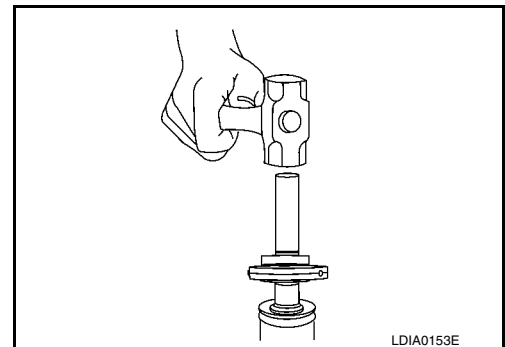


4. Make sure that the journal moves smoothly and is below the joint flex effort specification. Refer to [DLN-169, "General Specification"](#).

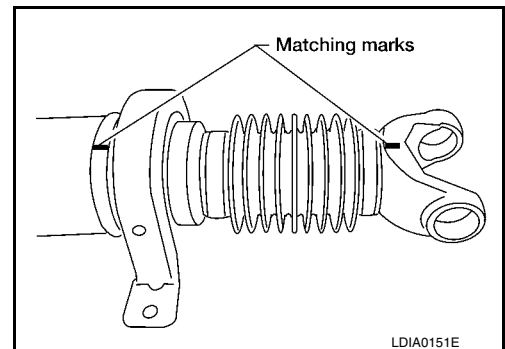


## Center Support Bearing

1. Apply a thin coat of multi-purpose grease to both the propeller shaft tube and the inside surface of the center support bearing.
2. Install the center support bearing on the propeller shaft tube using a suitable pipe pressing on the inner race.



3. Install a new clamp over the boot on the slip yoke.
4. Align the matching marks and install the slip yoke on the propeller shaft tube.



5. Clean the surfaces and position the boot over the propeller shaft tube and tighten the clamp.

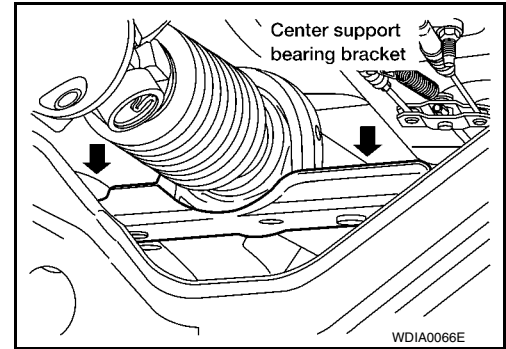
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## REAR PROPELLER SHAFT

< UNIT DISASSEMBLY AND ASSEMBLY >

[3S1330]

6. Install the center support bearing bracket, then install the rear propeller shaft assembly in the vehicle. Refer to [DLN-163, "Removal and Installation"](#).



# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[3S1330]

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### General Specification

INFOID:0000000012566235

Applied model	VQ40DE 2WD	
	M/T short bed	A/T long bed
Propeller shaft model	3S1330	
Number of joints	3	
Coupling method with rear final drive	Flange type	
Coupling method with transmission	Sleeve type	
1st Shaft length (Center bearing to spider)	674.5 ± 1.5 mm (26.56 ± 0.06 in)	741.5 ± 1.5 mm (29.19 ± 0.06 in)
2nd Shaft length (Spider to spider)	783.8 ± 1.5 mm (30.86 ± 0.06 in)	1152.8 ± 1.5 mm (45.39 ± 0.06 in)
Shaft outer diameter	76.2 + 0.00/ - 0.13 mm (3.00 + 0.00/ - 0.01 in)	
Journal axial play	0.02 mm (0.0008 in) or less	
Propeller shaft runout limit	0.6 mm (0.024 in) or less	
Propeller shaft joint flex effort	2.26 N·m (0.23 kg·m, 20 in·lb) or less	

#### Snap Ring

INFOID:0000000012566236

Unit: mm (in)

Thickness	Color	Part Number*
1.99 (0.0783)	White	37146-C9400
2.02 (0.0795)	Yellow	37147-C9400
2.05 (0.0807)	Red	37148-C9400
2.08 (0.0819)	Green	37149-C9400
2.11 (0.0831)	Blue	37150-C9400
2.14 (0.0843)	Light brown	37151-C9400
2.17 (0.0854)	Black	37152-C9400
2.20 (0.0866)	No paint	37153-C9400

\*: Always check with the Parts Department for the latest parts information.



## PRECAUTION

### PRECAUTIONS

#### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000012566237

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

**WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

# PREPARATION

< PREPARATION >

[PROPELLER SHAFT: 3S1330-2BJ100]

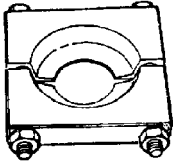
## PREPARATION

### PREPARATION

#### Special Service Tools

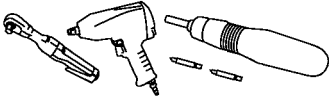
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The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
205-D002 ( — ) Bearing splitter  ZZA0700D	Removing center support bearing assembly

#### Commercial Service Tool

INFOID:0000000012566239

Tool name	Description
Power tool  PIIB1407E	Loosening nuts, screws and bolts

# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYSTEM DESCRIPTION >

[PROPELLER SHAFT: 3S1330-2BJ100]

## SYSTEM DESCRIPTION

### NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

#### NVH Troubleshooting Chart

INFOID:000000012566240

Use the chart below to help you find the cause of the symptom. If necessary, repair or replace these parts.

Symptom	Possible cause and suspected parts											
	Uneven rotation torque	Rotation imbalance	Excessive run out	Differential	Axle	Suspension	Tires	Road wheel	Drive shaft	Brakes	Steering	
Noise	x	x	x	x	x	x	x	x	x	x	x	x
Shake					x	x	x	x	x	x		x
Vibration	x	x	x		x	x	x		x			x

x: Applicable

Reference page

[DLN-132 \(front\)](#)  
[DLN-172 \(rear\)](#)  
[DLN-132 \(front\)](#)  
[DLN-172 \(rear\)](#)  
[DLN-132 \(front\)](#)  
[DLN-150 \(rear\)](#)  
[DLN-184. "NVH Troubleshooting Chart"](#)  
[DLN-218. "NVH Troubleshooting Chart"](#)  
[FAX-4. "NVH Troubleshooting Chart"](#)  
[RAX-5. "NVH Troubleshooting Chart"](#)  
[FSU-5. "NVH Troubleshooting Chart"](#)  
[RSU-4. "NVH Troubleshooting Chart"](#)  
[WT-44. "NVH Troubleshooting Chart"](#)  
[WT-44. "NVH Troubleshooting Chart"](#)  
[FAX-4. "NVH Troubleshooting Chart"](#)  
[BR-6. "NVH Troubleshooting Chart"](#)  
[ST-5. "NVH Troubleshooting Chart"](#)

# PROPELLER SHAFT ASSEMBLY

< BASIC INSPECTION >

[PROPELLER SHAFT: 3S1330-2BJ100]

## BASIC INSPECTION

### PROPELLER SHAFT ASSEMBLY

#### Inspection

INFOID:000000012566241

#### APPEARANCE AND NOISE INSPECTION

Check the propeller shaft tube surface for dents or cracks. If damaged, replace the propeller shaft assembly.

#### PROPELLER SHAFT VIBRATION

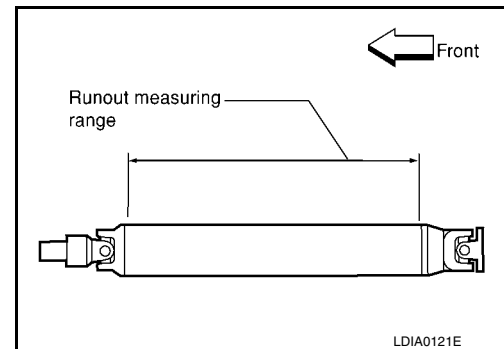
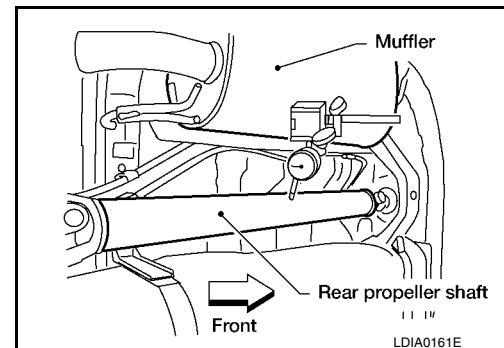
If a vibration is present at high speed, inspect the propeller shaft runout first.

1. Measure the runout of the propeller shaft tube at several points by rotating the final drive companion flange with your hands.

#### Propeller shaft runout limit

**2WD** : Refer to [DLN-179, "General Specification"](#)

**4WD** : Refer to [DLN-179, "General Specification"](#)



2. If the runout exceeds specifications, disconnect the propeller shaft at the final drive companion flange; then rotate the companion flange 90°, 180° and 270° and reconnect the propeller shaft.
3. Check the runout again. If the runout still exceeds specifications, replace the propeller shaft assembly.
4. After installation, check for vibration by driving vehicle.

# REAR PROPELLER SHAFT

< UNIT REMOVAL AND INSTALLATION >

[PROPELLER SHAFT: 3S1330-2BJ100]

## UNIT REMOVAL AND INSTALLATION

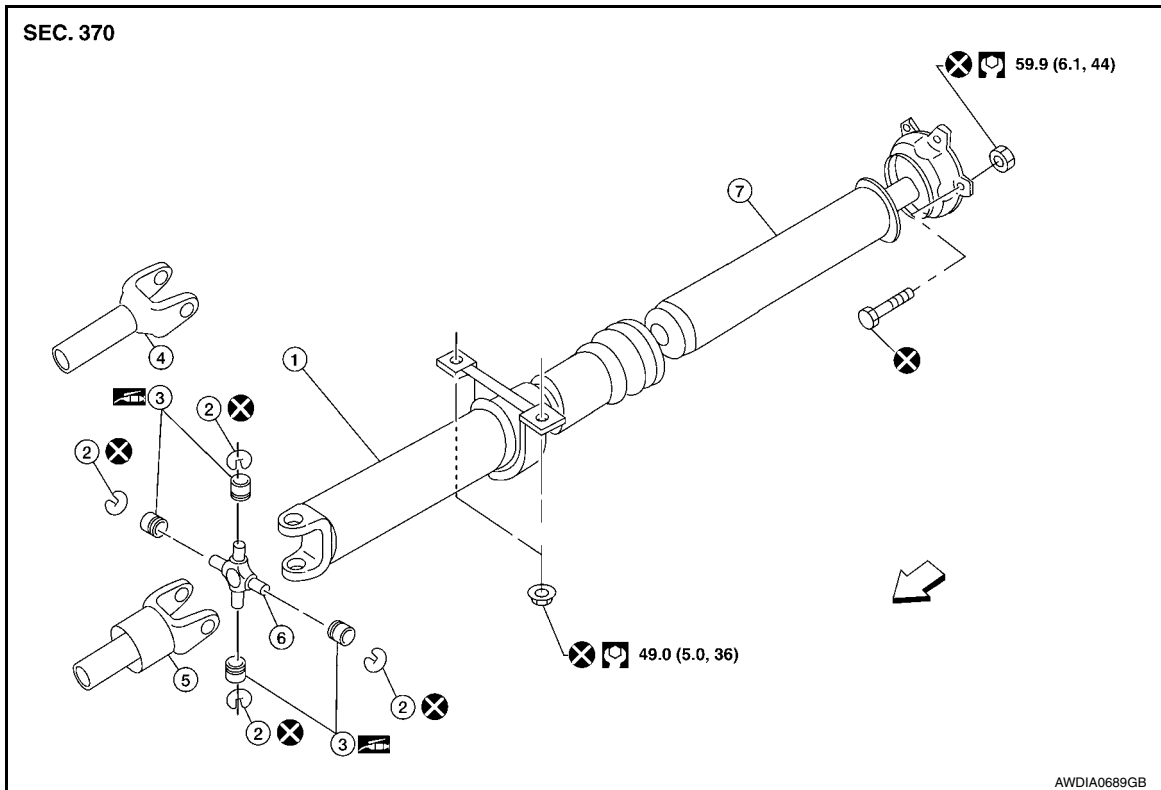
### REAR PROPELLER SHAFT

#### Removal and Installation

INFOID:0000000012566242

#### COMPONENTS

Model 3S1330-2BJ100



- |                                |                      |                    |
|--------------------------------|----------------------|--------------------|
| 1. Propeller shaft (1st shaft) | 2. Snap ring         | 3. Journal bearing |
| 4. Sleeve yoke (4WD)           | 5. Sleeve yoke (2WD) | 6. Journal         |
| 7. Propeller shaft (2nd shaft) | ← Front              |                    |

#### NOTE:

When removing components such as hoses, tubes/lines, etc., cap or plug openings to prevent fluid from spilling.

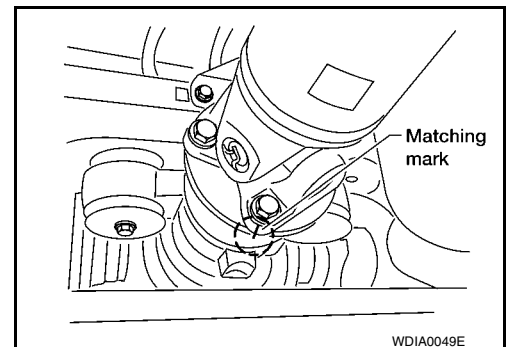
#### REMOVAL

1. Remove under cover (if equipped). Refer to [EXT-15, "Removal and Installation"](#).
2. Put the transmission in neutral and release the parking brake.
3. Put matching marks on the rear propeller shaft flange yoke and the rear final drive companion flange as shown.

#### CAUTION:

**For matching marks, use paint. Do not damage the rear propeller shaft flange yoke or the companion flange.**

4. Remove the bolts, then remove the propeller shaft from the rear final drive and transmission or transfer.



#### INSPECTION

# REAR PROPELLER SHAFT

< UNIT REMOVAL AND INSTALLATION >

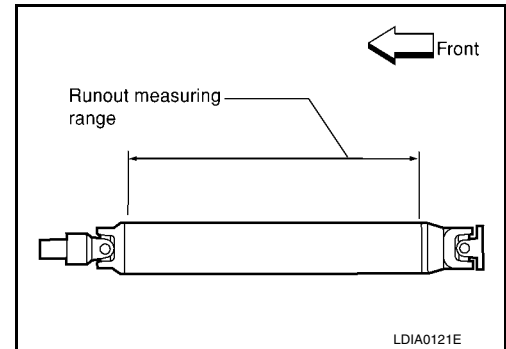
[PROPELLER SHAFT: 3S1330-2BJ100]

- Inspect the propeller shaft runout. If runout exceeds the limit, replace the propeller shaft assembly.

## Propeller shaft runout limit

**2WD** : Refer to [DLN-179, "General Specification"](#)

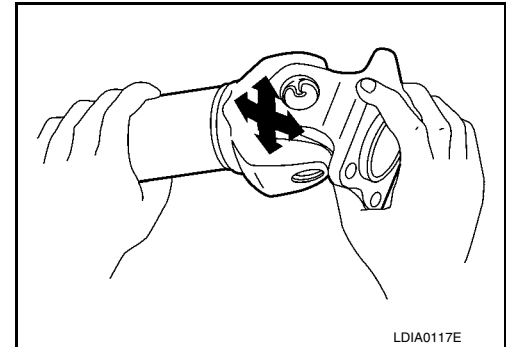
**4WD** : Refer to [DLN-179, "General Specification"](#)



- While holding the flange yoke on one side, check axial play of the joint as shown. If the journal axial play exceeds the specification, repair or replace the journal parts.

**Journal axial play** : Refer to [DLN-179, "General Specification"](#)

- Check the propeller shaft for dents or cracks. If damage is detected, replace the propeller shaft assembly.



## INSTALLATION

Installation is in the reverse order of removal.

- After installation, check for vibration by driving the vehicle. Refer to [DLN-172, "NVH Troubleshooting Chart"](#).

### CAUTION:

**Do not reuse the bolts and nuts. Always install new ones.**

A  
B  
C  
DLN  
E  
F  
G  
H  
I  
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K  
L  
M  
N  
O  
P

# REAR PROPELLER SHAFT

< UNIT DISASSEMBLY AND ASSEMBLY >

[PROPELLER SHAFT: 3S1330-2BJ100]

## UNIT DISASSEMBLY AND ASSEMBLY

### REAR PROPELLER SHAFT

#### Disassembly and Assembly

INFOID:0000000012566243

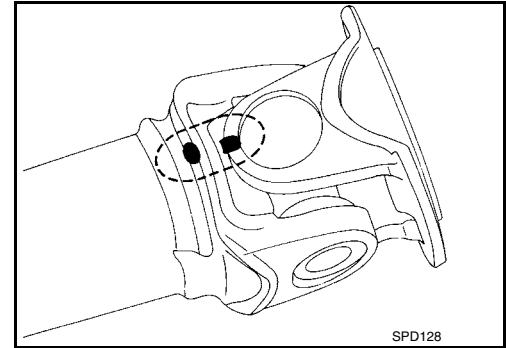
#### DISASSEMBLY

##### Journal

1. Remove the propeller shaft assembly from the vehicle. Refer to [DLN-174. "Removal and Installation"](#).
2. Put matching marks on the rear propeller shaft tube and flange yoke as shown.

**CAUTION:**

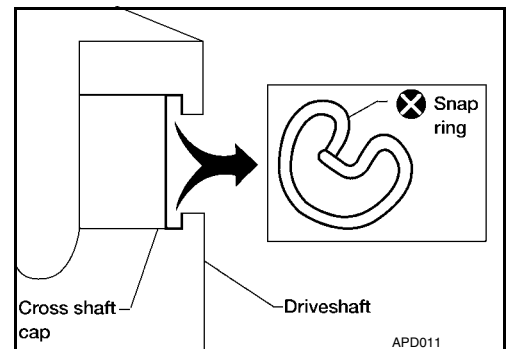
For matching marks use paint. Do not damage the rear propeller shaft or flange yoke.



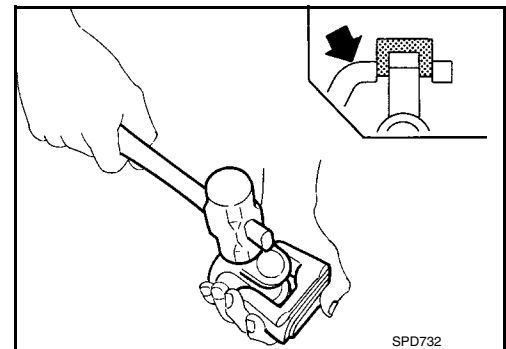
3. Remove the snap rings.

**CAUTION:**

Do not reuse snap rings.



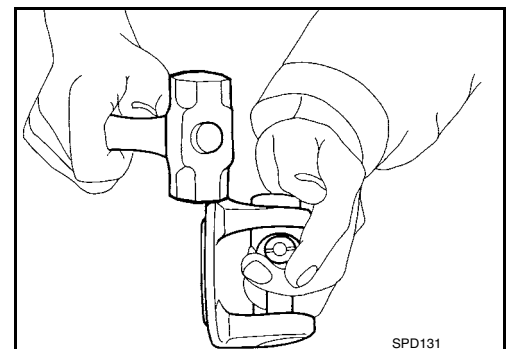
4. Push out and remove the journal bearing by lightly tapping the yoke with a hammer, taking care not to damage the journal or yoke hole.



5. Remove the bearing at the opposite side of above operation.

**NOTE:**

Put marks on the disassembled parts so that they can be reinstalled in their original positions from which they were removed.



# REAR PROPELLER SHAFT

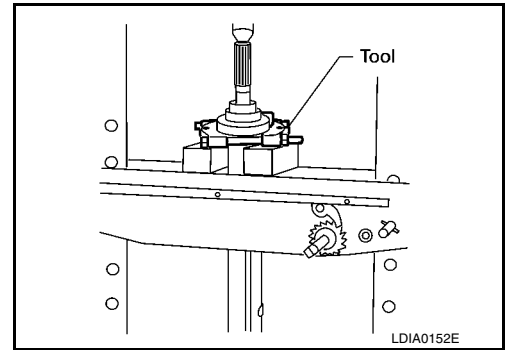
< UNIT DISASSEMBLY AND ASSEMBLY >

[PROPELLER SHAFT: 3S1330-2BJ100]

## Center Support Bearing

1. Remove the propeller shaft assembly from the vehicle. Refer to [DLN-174, "Removal and Installation"](#).
2. Put matching marks on the propeller shaft tube and the slip yoke.  
**CAUTION:**  
**For matching marks, use paint. Do not damage the propeller shaft tube or slip yoke.**
3. Remove and discard the clamp near the center support bearing, then slide the slip yoke off of propeller shaft tube.
4. Press the center support bearing off the propeller shaft tube using Tool and suitable hydraulic press.

**Tool number** : 205-D002 ( — )



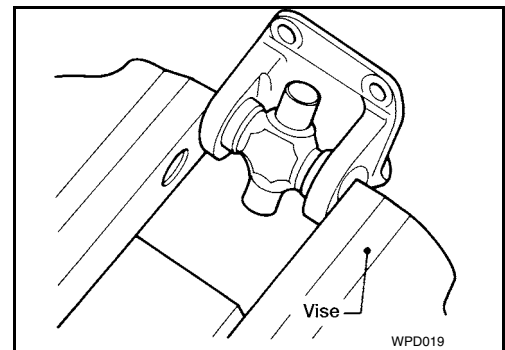
## ASSEMBLY

### Journal

1. Assemble the journal bearings. Apply multipurpose grease on the bearing inner surface.

**NOTE:**

During assembly, use caution so that the needle bearings do not fall down.



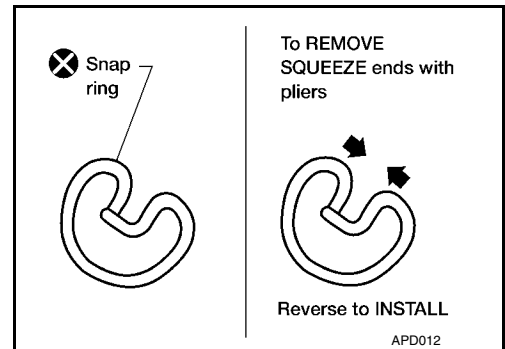
2. Select snap rings that will provide the specified play in an axial direction of the journal, and install them. Refer to [DLN-179, "Snap Ring"](#).

**CAUTION:**

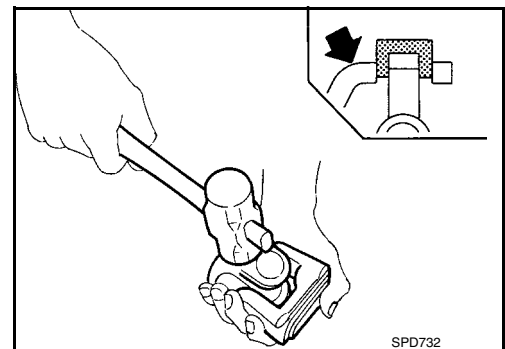
**Do not reuse snap rings.**

**NOTE:**

Select snap rings with a difference in thickness at both sides within 0.02 mm (0.0008 in).



3. Adjust the thrust clearance between the bearing and snap ring to zero by tapping the yoke.



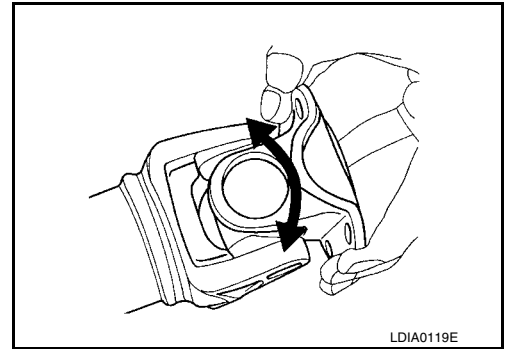


## REAR PROPELLER SHAFT

< UNIT DISASSEMBLY AND ASSEMBLY >

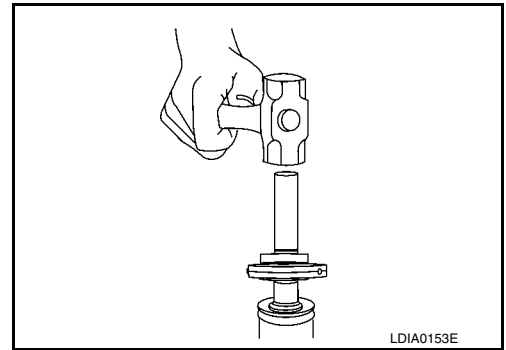
[PROPELLER SHAFT: 3S1330-2BJ100]

4. Make sure that the journal moves smoothly and is below the joint flex effort specification. Refer to [DLN-179, "General Specification"](#).

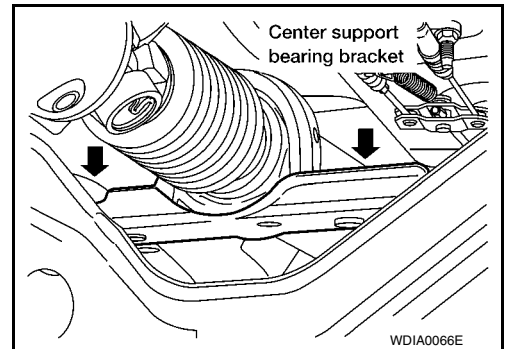


### Center Support Bearing

1. Apply a thin coat of multi-purpose grease to both the propeller shaft tube and the inside surface of the center support bearing.
2. Install the center support bearing on the propeller shaft tube using a suitable pipe pressing on the inner race.



3. Install a new clamp over the boot on the slip yoke.
4. Align the matching marks and install the slip yoke on the propeller shaft tube.
5. Clean the surfaces and position the boot over the propeller shaft tube and tighten the clamp.
6. Install the center support bearing bracket, then install the rear propeller shaft assembly in the vehicle. Refer to [DLN-174, "Removal and Installation"](#).



# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[PROPELLER SHAFT: 3S1330-2BJ100]

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### General Specification

INFOID:0000000012566244

Applied model	Long bed 4WD	Short bed 2WD
	VQ40DE	
	A/T	A/T
Propeller shaft model	3S1330-2BJ100	
Number of joints	3	
Coupling method with rear final drive	Flange type	
Coupling method with transmission	Sleeve type	
1st Shaft length (Center bearing to spider)	625.5 ± 1.5 mm (24.63 ± 0.06 in)	741.5 ± 1.5 mm (29.19 ± 0.06 in)
2nd Shaft length (CV joint to flange mount surface)	813.6 ± 1.5 mm (32.03 ± 0.06 in)	813.6 ± 1.5 mm (32.03 ± 0.06 in) [783.6 ± 1.5 mm (30.85 ± 0.06 in)]*
Shaft outer diameter	76.2 +0.00/ - 0.13 mm (3.00 + 0.00/ - 0.01 in)	
Journal axial play	0.02 mm (0.0008 in) or less	
Propeller shaft runout limit	0.6 mm (0.024 in) or less	
Propeller shaft joint flex effort	2.26 N·m (0.23 kg·m, 20 in·lb) or less	

\*Off-Road

#### Snap Ring

INFOID:0000000012566245

Model 3S1330-2B100

Unit: mm (in)

Thickness	Color	Part Number*
1.99 (0.0783)	White	37146-C9400
2.02 (0.0795)	Yellow	37147-C9400
2.05 (0.0807)	Red	37148-C9400
2.08 (0.0819)	Green	37149-C9400
2.11 (0.0831)	Blue	37150-C9400
2.14 (0.0843)	Light brown	37151-C9400
2.17 (0.0854)	Black	37152-C9400
2.20 (0.0866)	No paint	37153-C9400

\*: Always check with the Parts Department for the latest parts information.

## PRECAUTION

### PRECAUTIONS

#### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000012566246

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

**WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

#### Precaution for Servicing Front Final Drive

INFOID:000000012566247

- Before starting diagnosis of the vehicle, understand the symptoms well. Perform correct and systematic operations.
- Check for the correct installation status prior to removal or disassembly. When matching marks are required, be certain they do not interfere with the function of the parts they are applied to.
- Overhaul should be done in a clean work area, a dust proof area is recommended.
- Before disassembly, completely remove sand and mud from the exterior of the unit, preventing them from entering into the unit during disassembly or assembly.
- Always use shop paper for cleaning the inside of components.
- Avoid using cotton gloves or a shop cloth to prevent the entering of lint.
- Check appearance of the disassembled parts for damage, deformation, and abnormal wear. Replace them with new ones if necessary.
- Gaskets, seals and O-rings should be replaced any time the unit is disassembled.
- Clean and flush the parts sufficiently and blow them dry.
- Be careful not to damage sliding surfaces and mating surfaces.
- When applying sealant, remove the old sealant from the mating surface; then remove any moisture, oil, and foreign materials from the application and mating surfaces.
- In principle, tighten nuts or bolts gradually in several steps working diagonally from inside to outside. If a tightening sequence is specified, observe it.
- During assembly, observe the specified tightening torque.
- Add new differential gear oil, petroleum jelly, or multi-purpose grease, as specified.