TOYOTA SERVICE BULLETIN
Group: 05 No.: 06 Date: Sep, 12

Landcruiser 200

Corrections to Repair Manual RM19U1E

Please ensure these pages are distributed to all relevant staff for their information; and a copy made available for future reference, with the above repair manual.

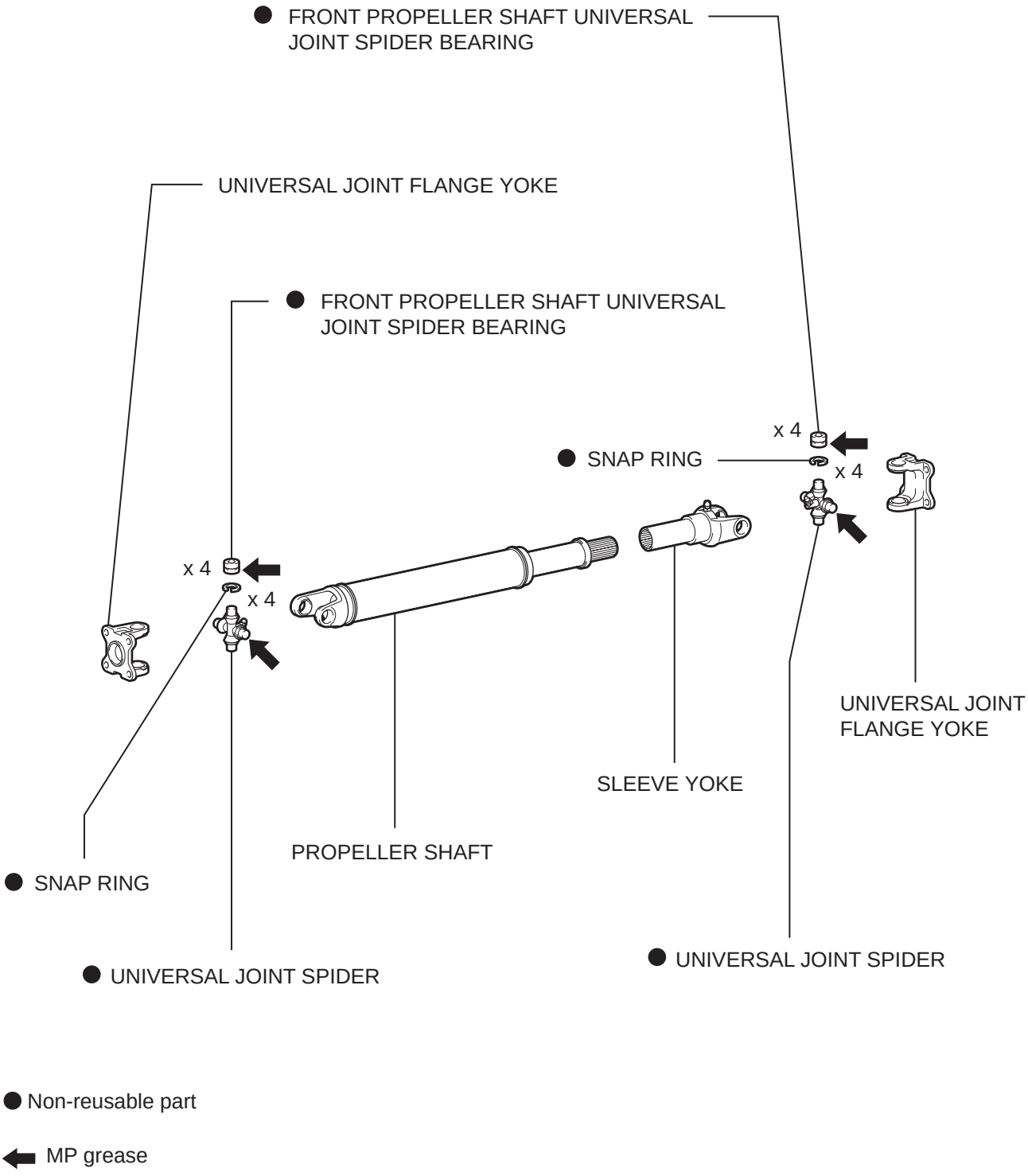
Section	Title	Paragraph
DRIVE SHAFT / PROPELLER SHAFT	FRONT PROPELLER SHAFT ASSEMBLY	COMPONENTS (2011/09 -
		COMPONENTS (2012/01 -)
		DISASSEMBLY
		INSPECTION
		REASSEMBLY
	PROPELLER SHAFT ASSEMBLY	COMPONENTS
		DISASSEMBLY
		INSPECTION
		REASSEMBLY

The revised pages listed above are attached.
(The corrected parts are indicated by arrows.)

This Bulletin does not cause the Flat Rate Manual to be changed.

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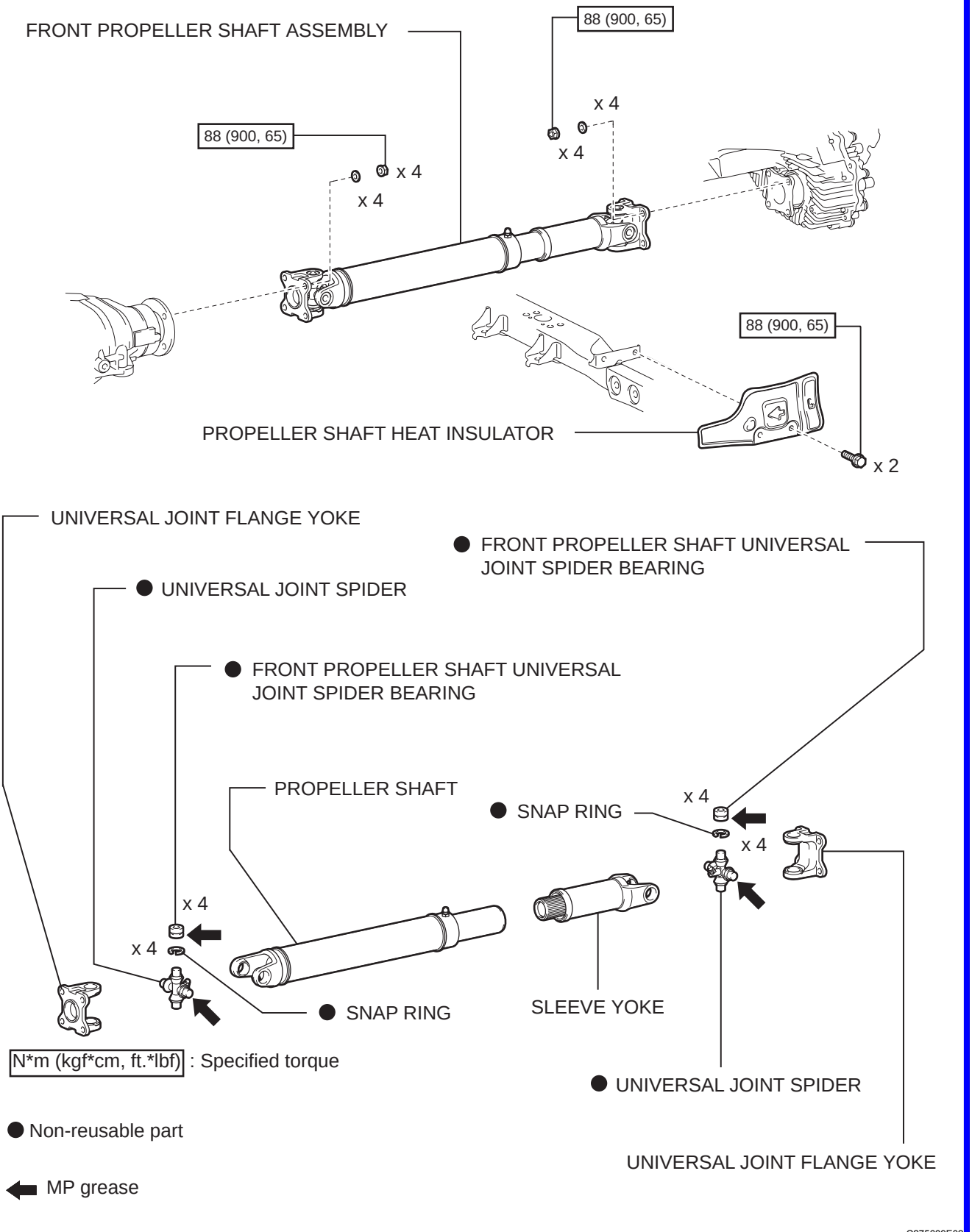
w/o CENTER GREASE FITTING TYPE:



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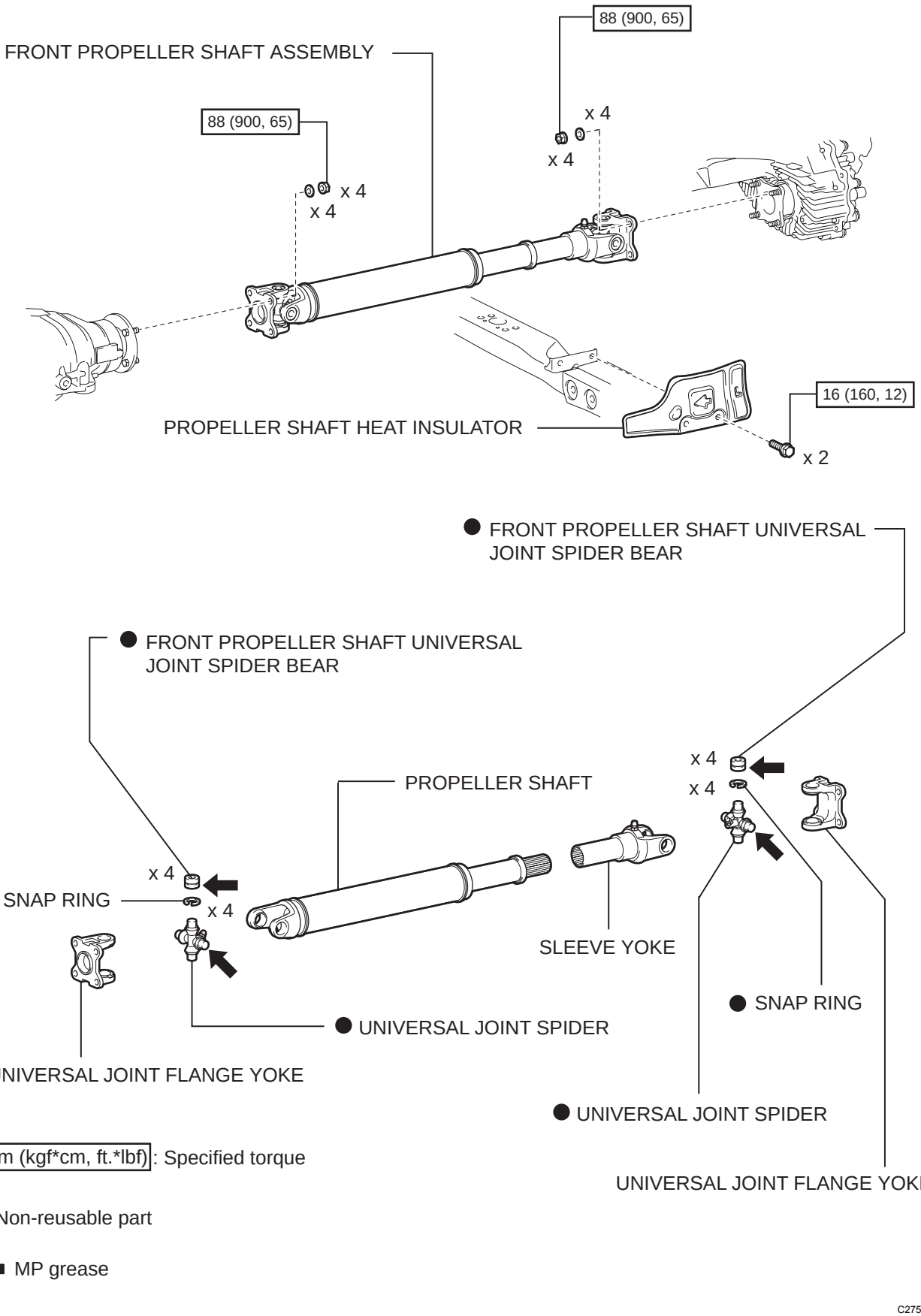
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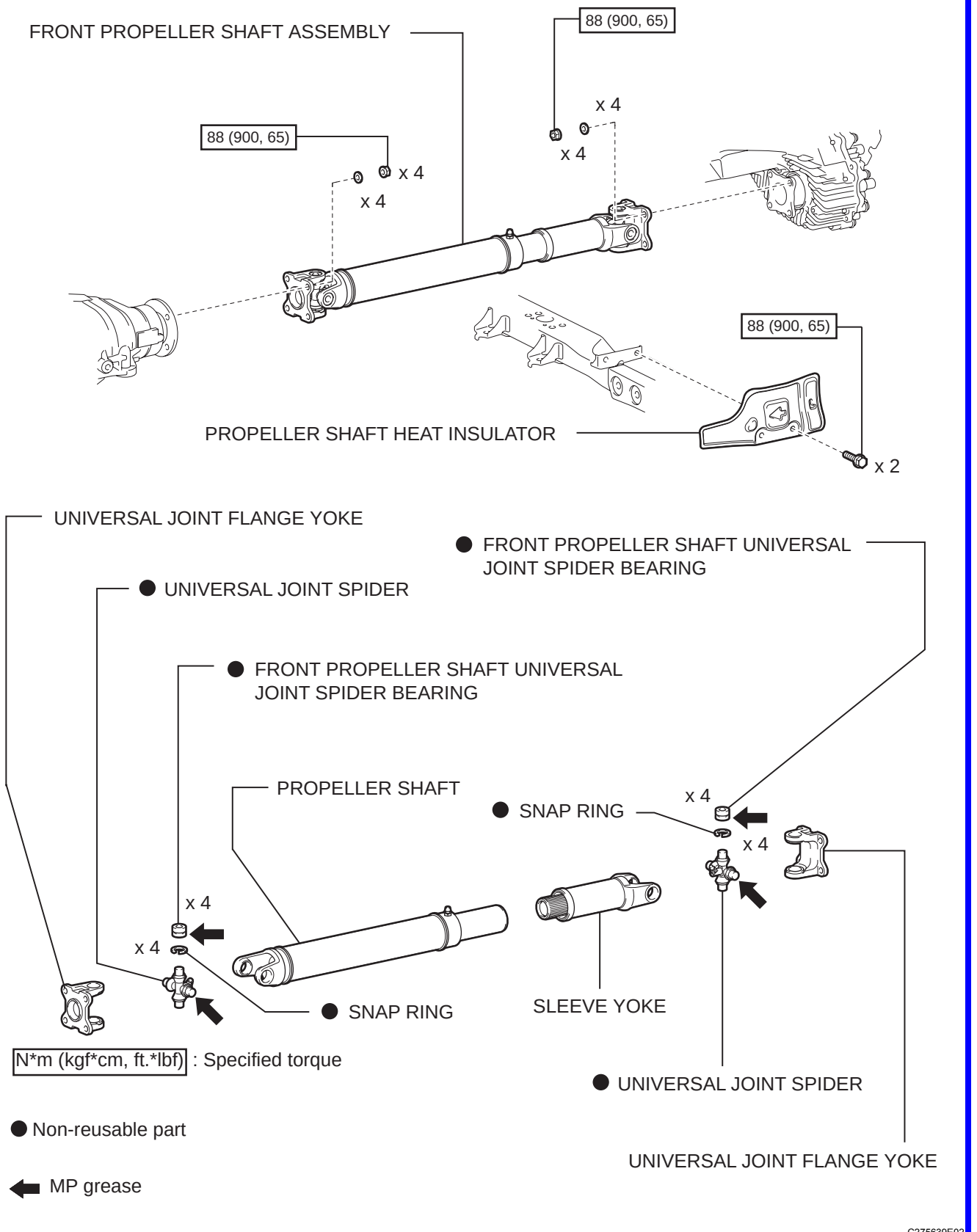


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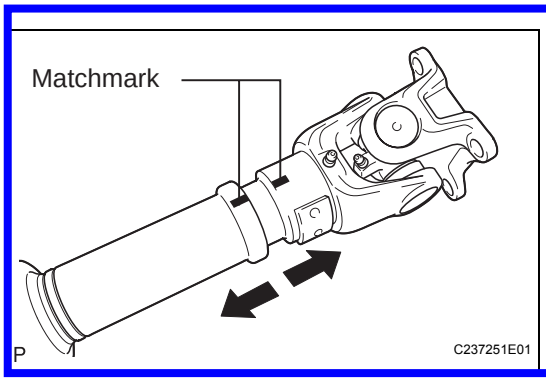


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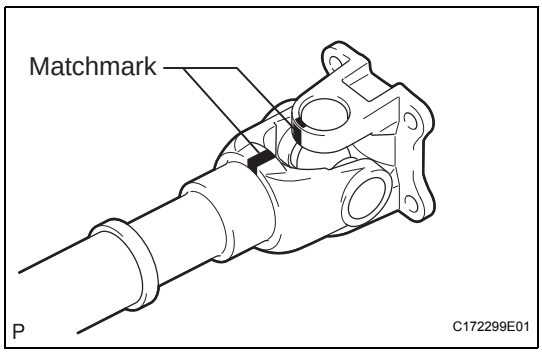
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[Added]



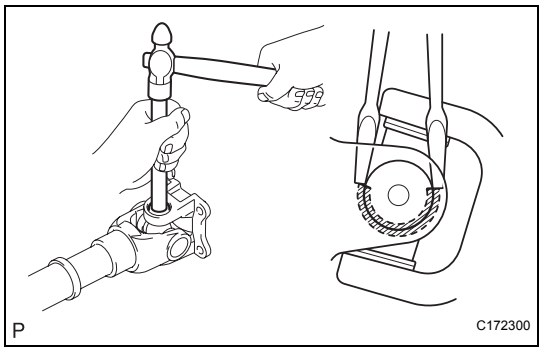
1. CLEAN PROPELLER SHAFT GREASE

(a) Place matchmarks on the propeller shaft and sleeve yoke.
(b) Disconnect the sleeve yoke from the propeller shaft.
(c) Clean off any grease on the spline.

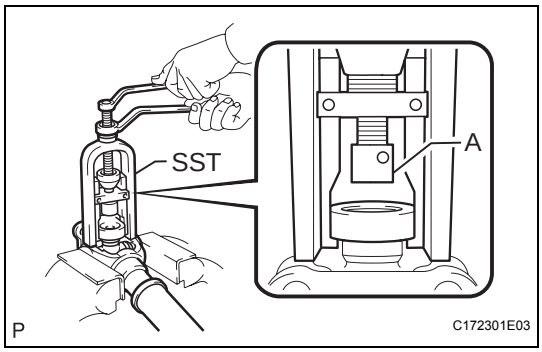


2. REMOVE FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER ASSEMBLY

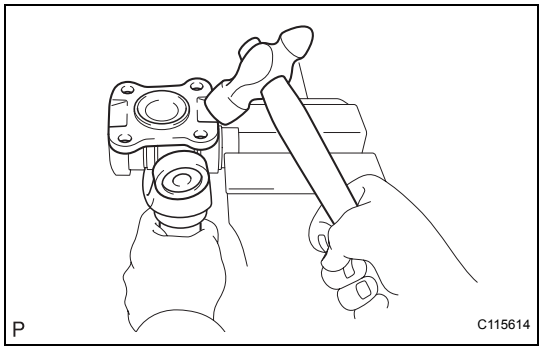
(a) Place matchmarks on the flange yoke and sleeve yoke or propeller shaft.



(b) Using a brass bar and hammer, slightly tap in the spider bearing outer races.
(c) Using 2 screwdrivers, remove the 4 snap rings from the grooves.



(d) Using SST, push out the bearing from the flange.
SST 09332-25010
HINT:
Before installing SST, sufficiently raise the part labeled A. If part A is too low, SST may be difficult to install.



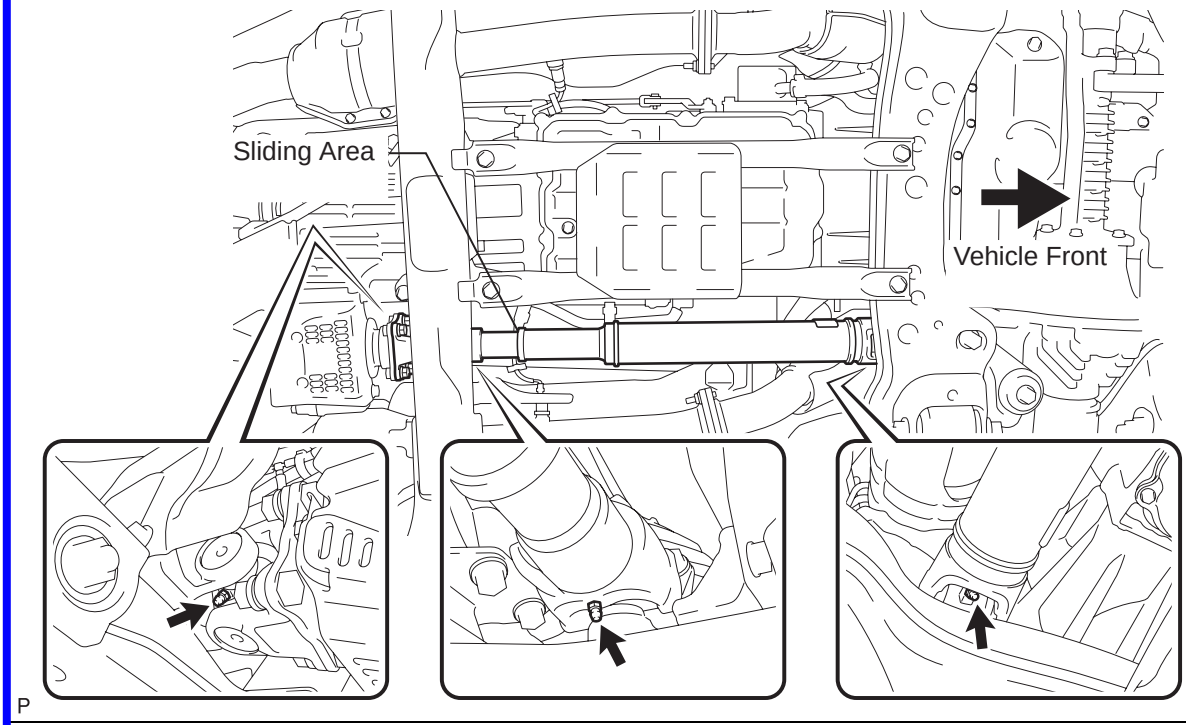
(e) Clamp the bearing outer race in a vise and tap off the flange with a hammer.
HINT:
Remove the bearing on the opposite side using the same procedure.
(f) Remove the flange yoke from the sleeve yoke (or propeller shaft).

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3. FILL PROPELLER SHAFT WITH GREASE

(a) Fill each of the grease fitting holes of the propeller shaft with MP grease.



NOTICE:
Stop filling the grease fitting hole on the middle portion of the propeller shaft once the sliding portion starts extending.

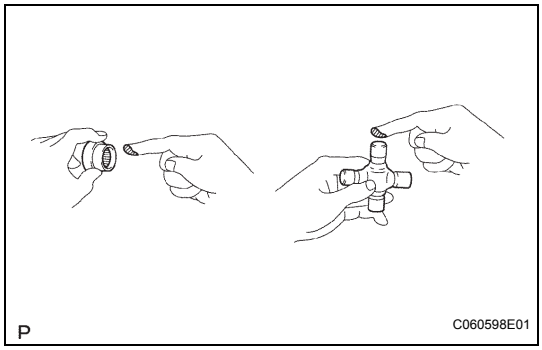
(b) Drive the vehicle.

NOTICE:
Check the safety of the surrounding areas.

HINT:
Move the vehicle forward and in reverse 5 times and strongly apply the brake.

(c) Lift up the vehicle and wipe off any excess grease as a result of driving.

REASSEMBLY



1. INSTALL FRONT PROPELLER SHAFT UNIVERSAL JOINT SPIDER ASSEMBLY

(a) Apply MP grease to a new spider and new bearings.

NOTICE:
Be careful not to apply too much grease.

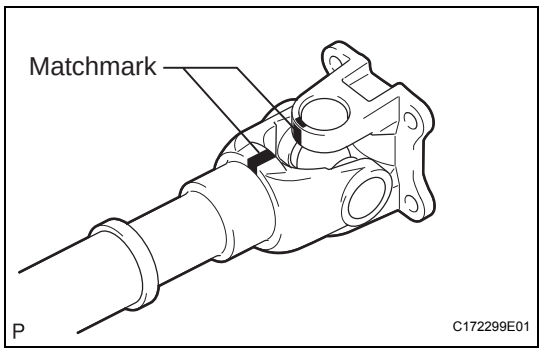
(b) Fit the spider into the flange yoke.

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Color	Mark	Specified Condition
-	九	2.44 to 2.46 mm (0.0961 to 0.0969 in.)
-	10	2.46 to 2.48 mm (0.0969 to 0.0976 in.)
-	A	2.48 to 2.50 mm (0.0976 to 0.0984 in.)
-	B	2.50 to 2.52 mm (0.0984 to 0.0992 in.)
-	C	2.52 to 2.54 mm (0.0992 to 0.1000 in.)
-	D	2.54 to 2.56 mm (0.1000 to 0.1008 in.)
-	E	2.56 to 2.58 mm (0.1008 to 0.1016 in.)

(f) Using a hammer, tap the yoke until there is no clearance between the bearing outer race and snap ring.

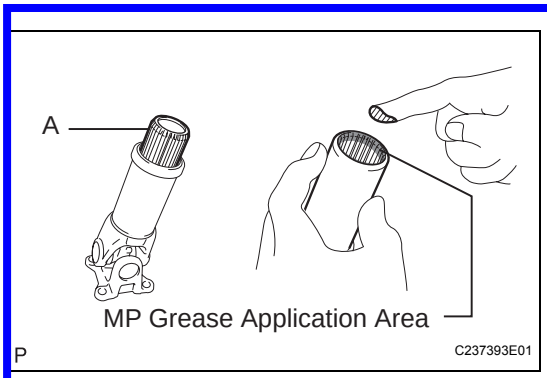


(g) Align the matchmarks on the propeller shaft and flange yoke or flange yoke and sleeve yoke.

(h) Install the flange yoke to the sleeve yoke or propeller shaft.

HINT:
Install 2 new spider bearings and snap rings on the flange yoke side using the procedure described above.

[Added]



2. APPLY MP GREASE

(a) Apply MP grease to the propeller shaft (the edge of the spline) as shown in the illustration.

Amount (Reference)

Spline A	Amount
Silver	44 to 54 g (1.56 to 1.90 oz.)
Black	9 to 17 g (0.32 to 0.59 oz.)

HINT:
The amount of grease differs depending on the color of the spline portion of the sleeve yoke.

(b) Align the matchmarks and install the sleeve yoke to the propeller shaft.

NOTICE:

- **Do not scratch the spline portion.**
- **Make sure that there is no foreign matter.**

3. INSPECT PROPELLER SHAFT GREASE FITTING DIRECTION

HINT:
When replacing a spider bearing, be sure that the grease fitting hole is facing the direction shown in the illustration.

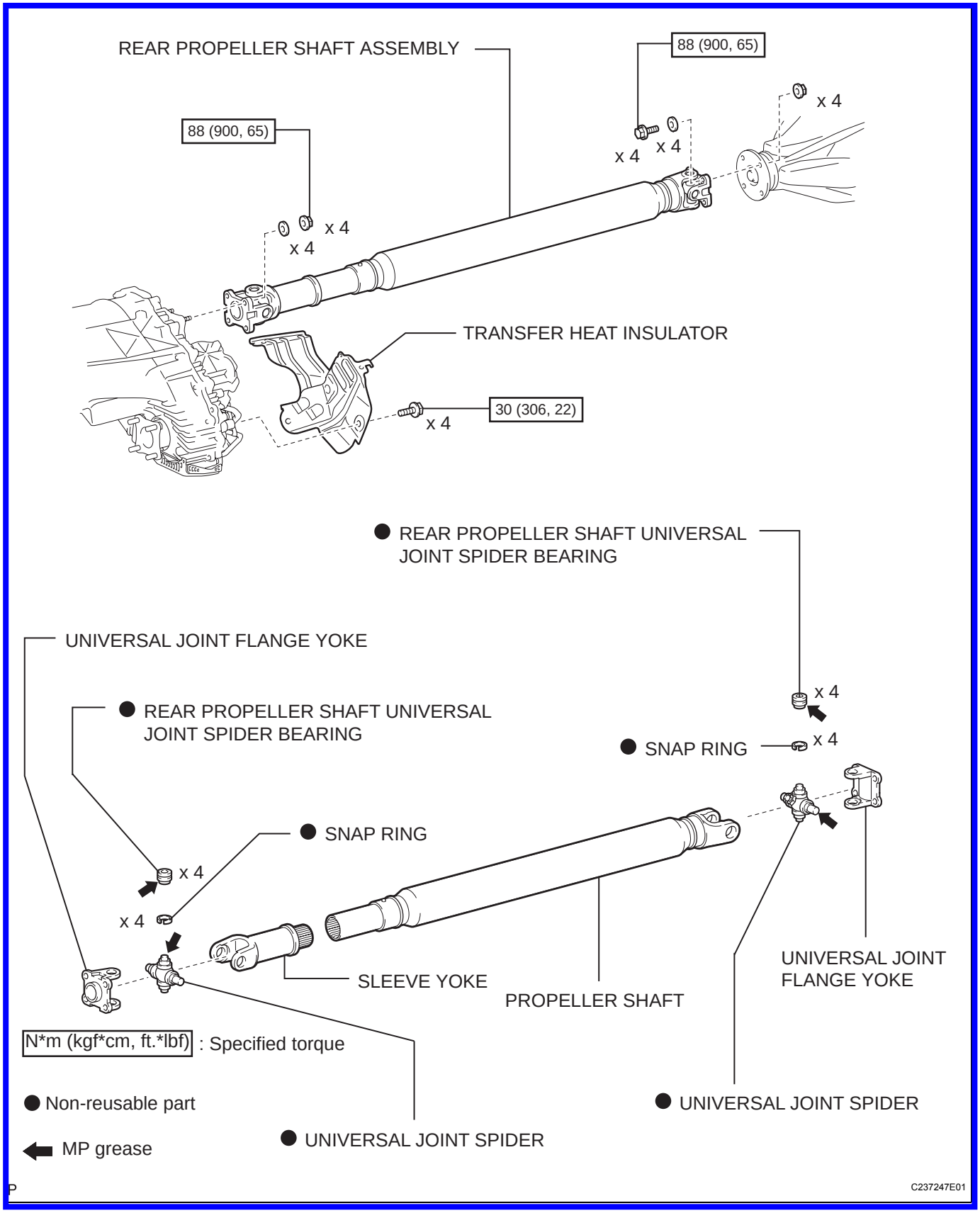
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PROPELLER SHAFT ASSEMBLY

COMPONENTS

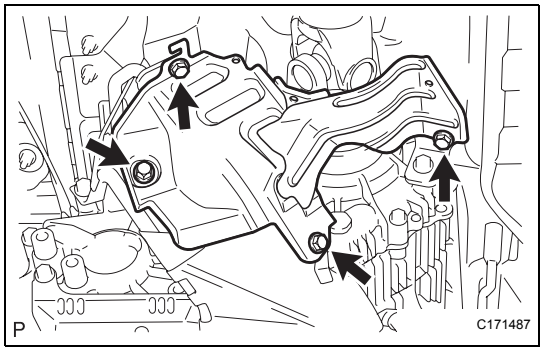
[All corrected]



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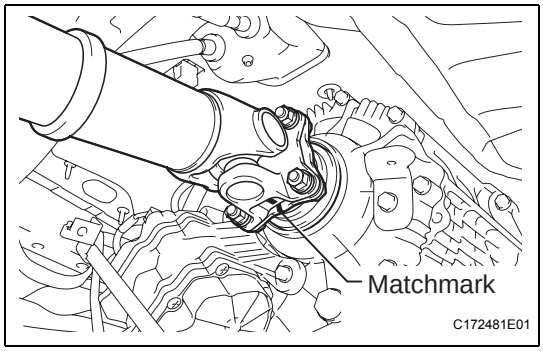
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REMOVAL



1. REMOVE TRANSFER HEAT INSULATOR

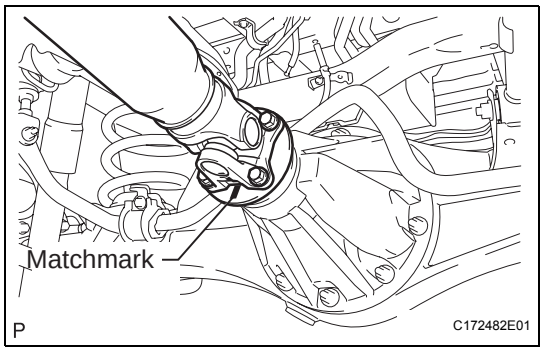
(a) Remove the 4 bolts and insulator.



2. REMOVE REAR PROPELLER SHAFT ASSEMBLY

(a) Place matchmarks on the propeller shaft flange and transfer.

(b) Remove the 4 nuts and 4 washers.



(c) Place matchmarks on the propeller shaft flange and rear differential.

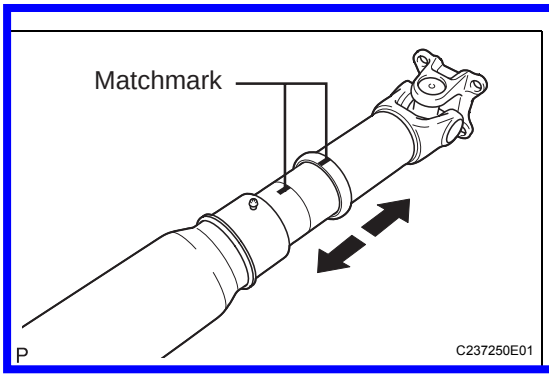
(d) Remove the 4 nuts, 4 bolts and 4 washers.

(e) Remove the rear propeller shaft.

DISASSEMBLY

NOTICE:
Be careful not to grip the propeller shaft tube too tightly in a vise as this will cause deformation.

[Added]

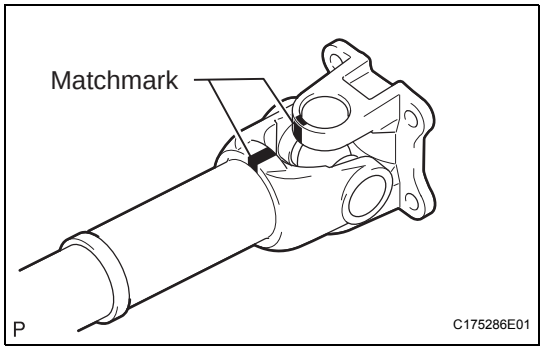


1. CLEAN PROPELLER SHAFT GREASE

(a) Place matchmarks on the propeller shaft and sleeve yoke.

(b) Disconnect the sleeve yoke from the propeller shaft.

(c) Clean off any grease on the spline.

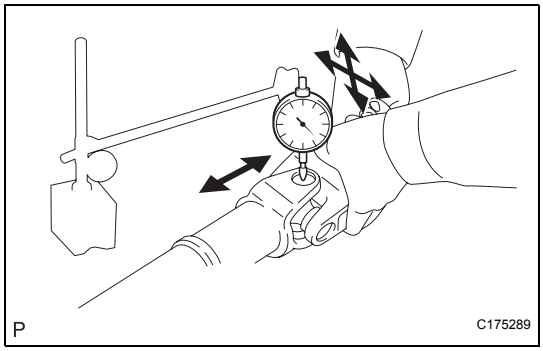


2. REMOVE REAR PROPELLER SHAFT UNIVERSAL JOINT SPIDER ASSEMBLY

(a) Place matchmarks on the flange yoke and sleeve yoke or propeller shaft.

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2. INSPECT SPIDER BEARING

NOTICE:

Be careful not to grip the propeller shaft tube too tightly in a vise as this will cause deformation.

(a) Check the spider bearings for wear or damage.

(b) Check the axial play of each spider bearing by turning the yoke while holding the shaft tightly.

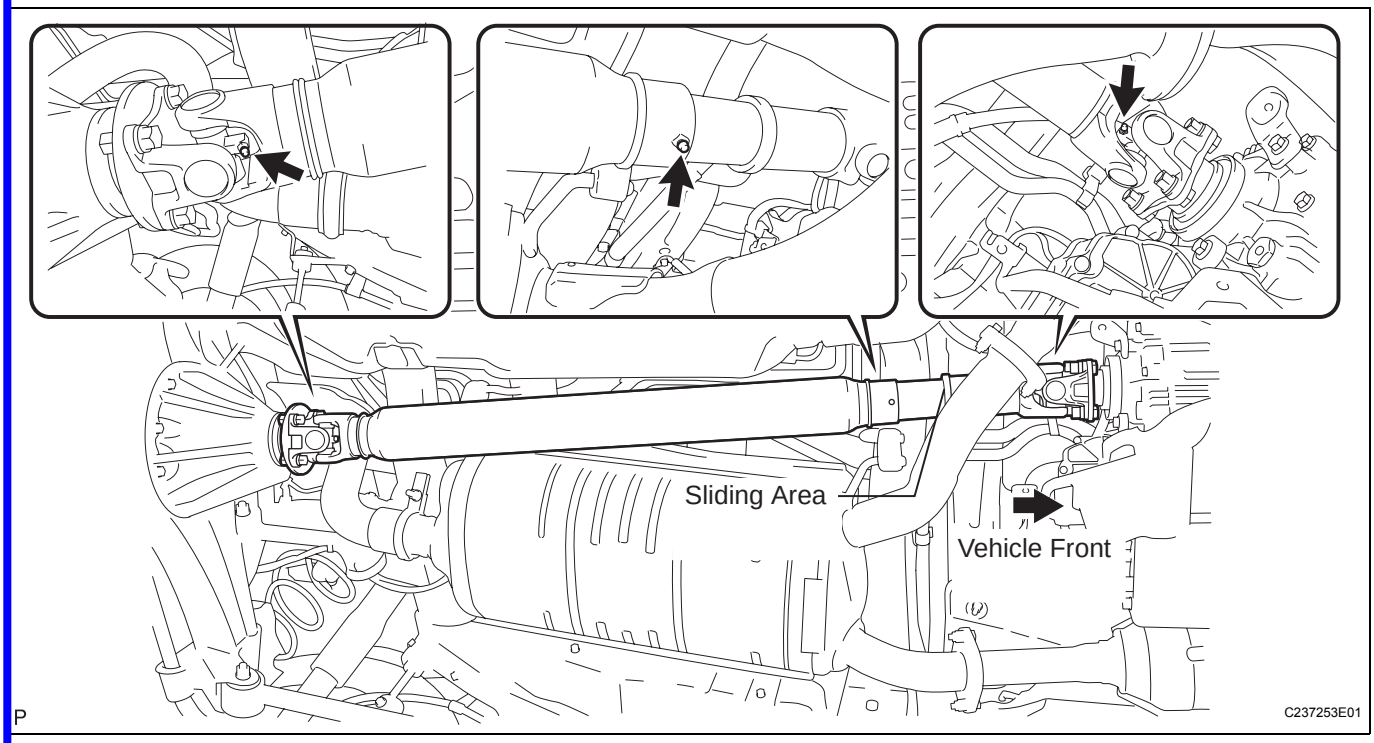
Maximum bearing axial play:

0 mm (0 in.)

If the axial play is more than the maximum, replace the spider bearing.

3. FILL PROPELLER SHAFT WITH GREASE

(a) Fill each of the grease fitting holes of the propeller shaft with MP grease.



NOTICE:

Stop filling the grease fitting hole on the middle portion of the propeller shaft once the sliding portion starts extending.

(b) Drive the vehicle.

NOTICE:

Check the safety of the surrounding areas.

HINT:

Move the vehicle forward and in reverse 5 times and strongly apply the brake.

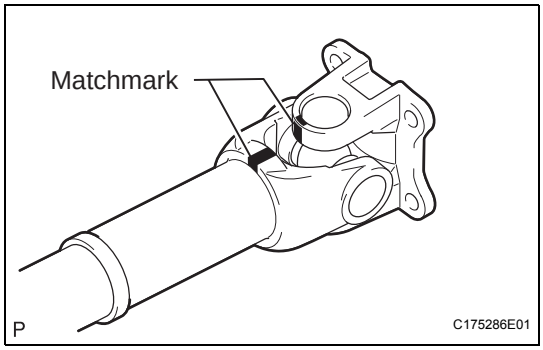
(c) Lift up the vehicle and wipe off any excess grease as a result of driving.

[Added]

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Color	Mark	Specified Condition
Brown	-	2.34 to 2.36 mm (0.0921 to 0.0929 in.)
Blue	-	2.36 to 2.38 mm (0.0929 to 0.0937 in.)
-	6	2.38 to 2.40 mm (0.0937 to 0.0945 in.)
-	7	2.40 to 2.42 mm (0.0945 to 0.0953 in.)
-	8	2.42 to 2.44 mm (0.0953 to 0.0961 in.)
-	九	2.44 to 2.46 mm (0.0961 to 0.0969 in.)
-	10	2.46 to 2.48 mm (0.0969 to 0.0976 in.)
-	A	2.48 to 2.50 mm (0.0976 to 0.0984 in.)
-	B	2.50 to 2.52 mm (0.0984 to 0.0992 in.)
-	C	2.52 to 2.54 mm (0.0992 to 0.1000 in.)
-	D	2.54 to 2.56 mm (0.1000 to 0.1008 in.)
-	E	2.56 to 2.58 mm (0.1008 to 0.1016 in.)

(f) Using a hammer, tap the yoke until there is no clearance between the bearing outer race and snap ring.

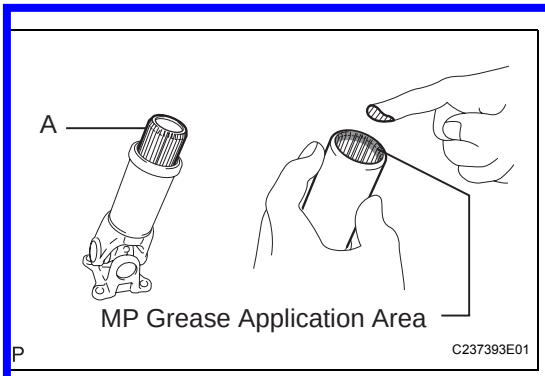


(g) Align the matchmarks on the propeller shaft and flange yoke or flange yoke and sleeve yoke.

(h) Install the flange yoke to the sleeve yoke or propeller shaft.

HINT:
Install 2 new spider bearings and snap rings on the flange yoke side using the procedure described above.

[Added]



2. APPLY MP GREASE

(a) Apply MP grease to the propeller shaft (the edge of the spline) as shown in the illustration.

Amount (Reference)

Spline A	Amount
Silver	44 to 54 g (1.56 to 1.90 oz.)
Black	9 to 17 g (0.32 to 0.59 oz.)

HINT:
The amount of grease differs depending on the color of the spline portion of the sleeve yoke.

(b) Align the matchmarks and install the sleeve yoke to the propeller shaft.

NOTICE:

- **Do not scratch the spline portion.**

DP

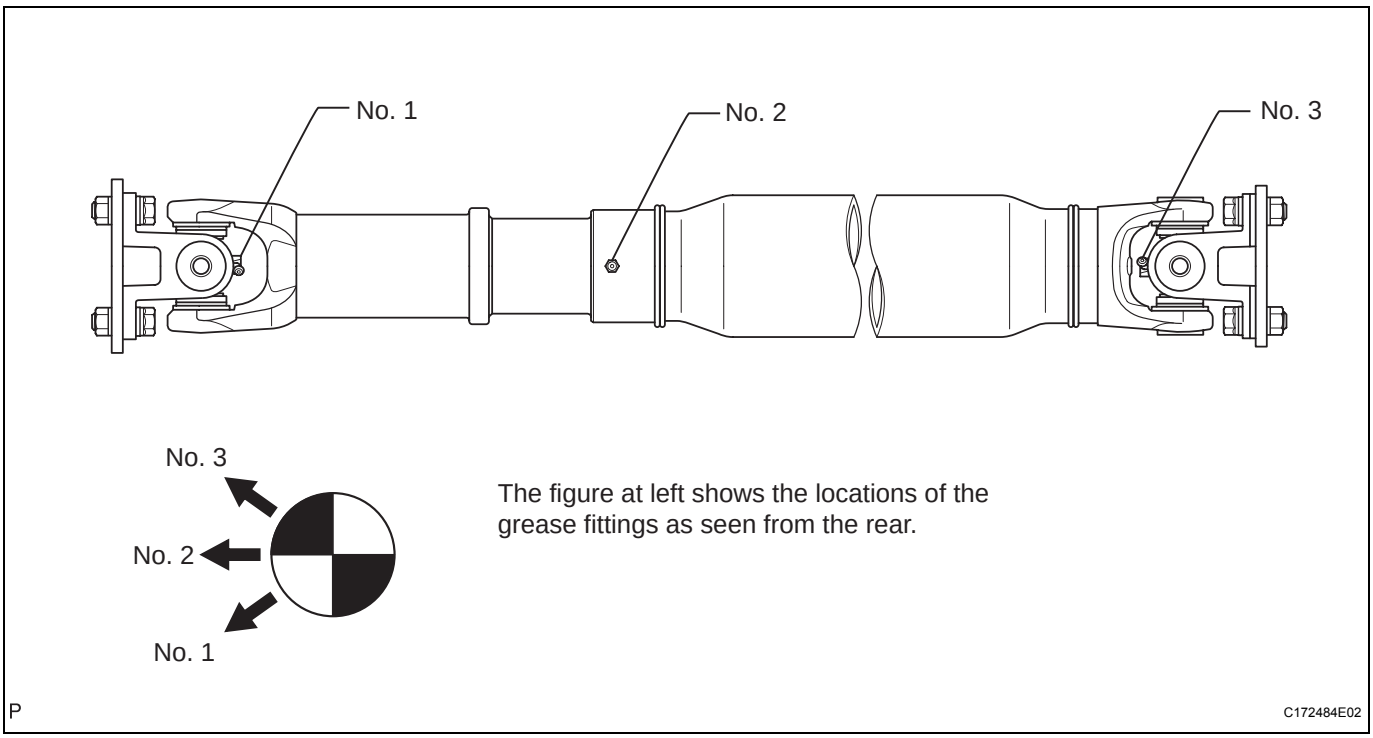
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[Added] → **• Make sure that there is no foreign matter.**

3. INSPECT PROPELLER SHAFT GREASE FITTING DIRECTION

HINT:

When replacing a spider bearing, be sure that the grease fitting hole is facing the direction shown in the illustration.



4. INSPECT SPIDER BEARING (See page DP-37)

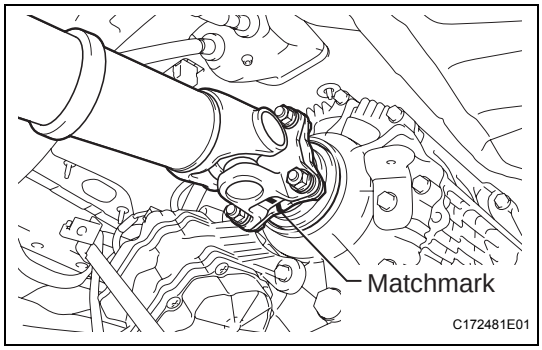
INSTALLATION

1. INSTALL REAR PROPELLER SHAFT

(a) Align the matchmarks on the propeller shaft flange and transfer.

(b) Connect the propeller shaft with the 4 washers and 4 nuts.

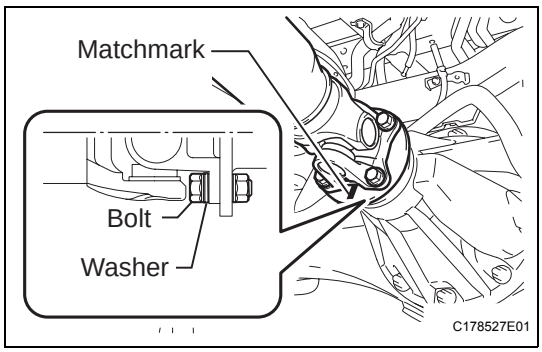
Torque: 88 N*m (900 kgf*cm, 65 ft.*lbf)



(c) Align the matchmarks on the propeller shaft flange and rear differential.

(d) Install the propeller shaft with the 4 bolts, 4 washers and 4 nuts.

Torque: 88 N*m (900 kgf*cm, 65 ft.*lbf)



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