

Steering

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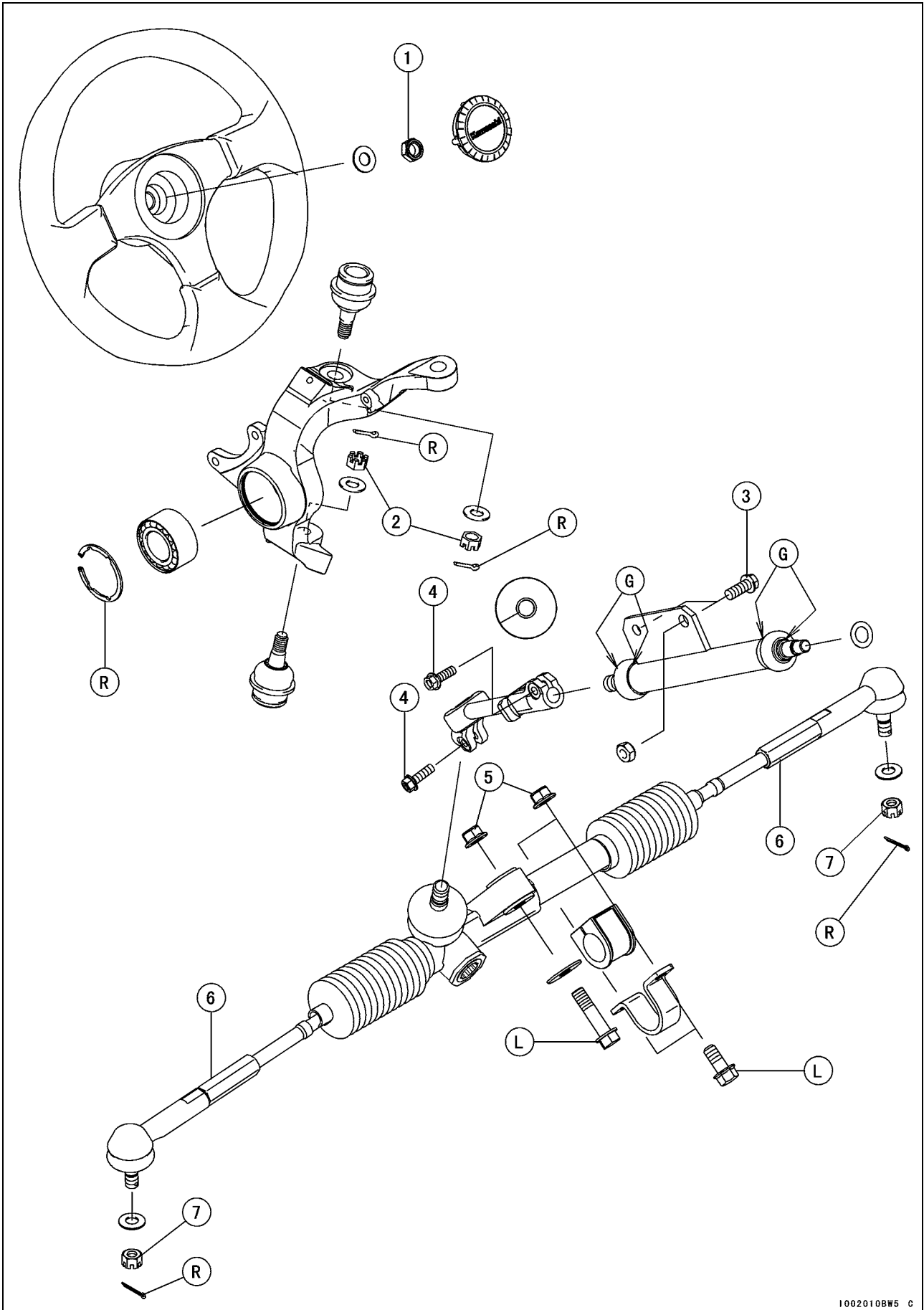
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14-2 STEERING

Exploded View



Exploded View

No.	Fastener	Torque			Remarks
		N·m	kgf·m	ft·lb	
1	Steering Wheel Mounting Nut	54	5.5	40	
2	Steering Knuckle Joint Nuts	47	4.8	35	
3	Main Shaft Mounting Bolts	42	4.3	31	
4	Intermediate Shaft Clamp Bolts	23	2.3	17	
5	Steering Gear Assembly Nuts	96	9.8	71	
6	Tie-rod End Locknuts	44	4.5	32	
7	Tie-rod End Nuts	42	4.3	31	

G: Apply grease.

L: Apply a non-permanent locking agent.

R: Replacement Parts

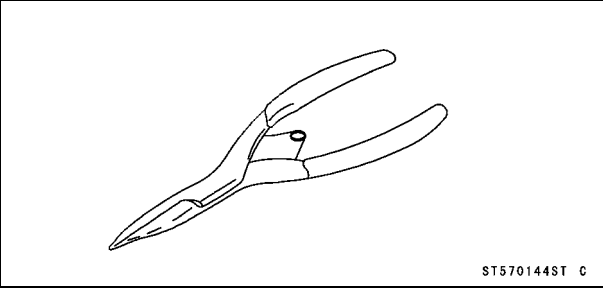
14-4 STEERING

Specifications

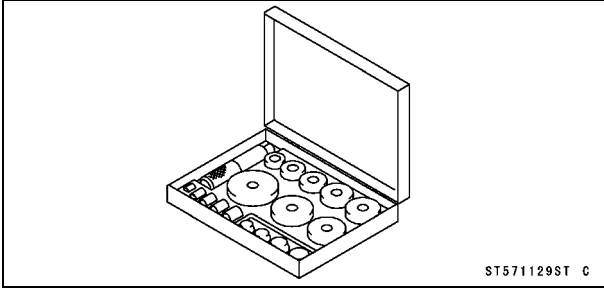
Item	Standard	Service Limit
Steering Wheel Steering Wheel Free Play	0 ~ 20 mm (0 ~ 0.79 in.)	— — —
Steering Gear Assembly Tie-rod Length (distance between boot end and locknut)	80 mm (3.15 in.)	— — —

Special Tools

Outside Circlip Pliers:
57001-144



Bearing Driver Set:
57001-1129

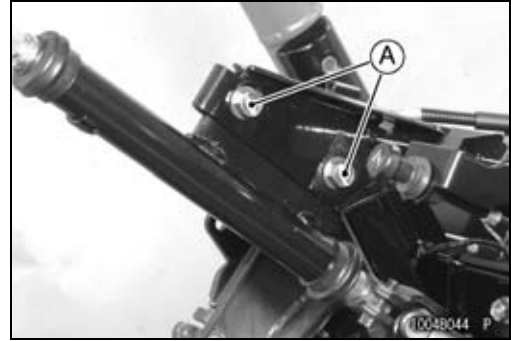


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Steering Wheel and Main Shaft Assembly

Steering Wheel Position Adjustment

- Remove:
 - Control Panel (see Control Panel Removal in the Frame chapter)
- Loosen the steering main shaft mounting bolts [A].
- Adjust the steering wheel position.
- Tighten:
 - Torque - Main Shaft Mounting Bolts: 42 N·m (4.3 kgf·m, 31 ft·lb)**

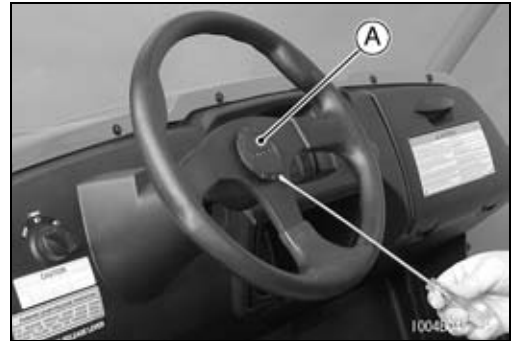


Steering Wheel Free Play Inspection

- Refer to Steering Wheel Free Play Inspection in the Periodic Maintenance chapter.

Steering Wheel Centering

- Test ride the vehicle.
- ★ If the steering wheel is not straight when the vehicle is traveling in a straight line, do the following.
- Check the tie-rod length and adjust it if necessary (see Toe-in Adjustment in the Wheels/Tires chapter).
- Remove:
 - Wheel Cap [A]



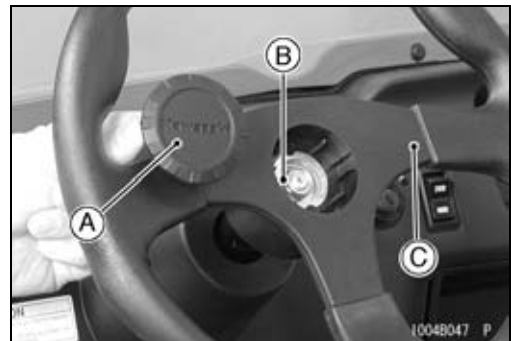
- Loosen the steering wheel mounting nut [A].
- Push the vehicle in a straight line with no one aboard, and stop it without turning the steering wheel.
- Remount the steering wheel so that it is straight ahead.
- Tighten:
 - Torque - Steering Wheel Mounting Nut: 54 N·m (5.5 kgf·m, 40 ft·lb)**



- Install:
 - Wheel Cap

Steering Wheel Removal

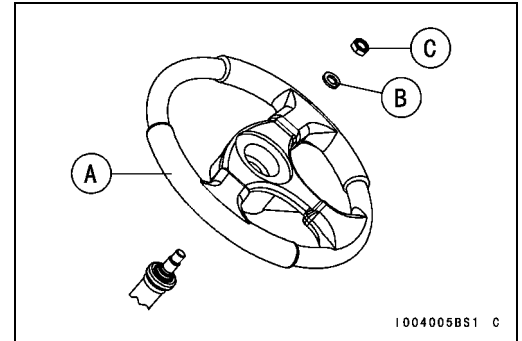
- Remove:
 - Wheel Cap [A]
 - Steering Wheel Mounting Nut [B] and Spring Washer
 - Steering Wheel [C]



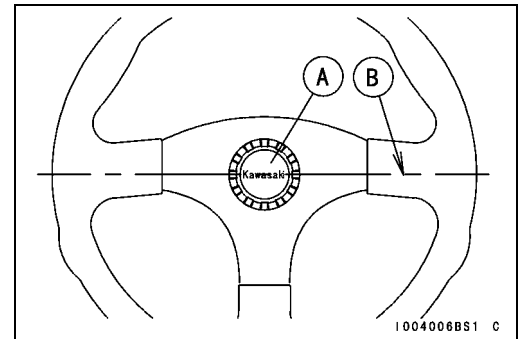
Steering Wheel and Main Shaft Assembly

Steering Wheel Installation

- Install:
 - Steering Wheel [A]
 - Spring Washer [B]
 - Steering Wheel Mounting Nut [C]

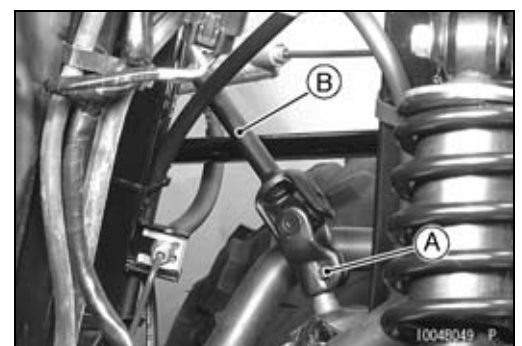
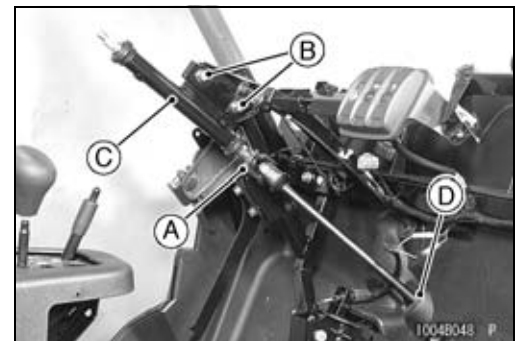


- Install the wheel cap [A] so that the “Kawasaki” mark parallel to the line [B].



Steering Shafts Removal

- Lift and hold the front fender (see Front Fender Removal in the Frame chapter).
- Remove:
 - Control Panel (see Control Panel Removal in the Frame chapter)
 - Steering Wheel (see Steering Wheel Removal)
 - Washer
 - Intermediate Shaft Clamp Bolt [A]
 - Main Shaft Mounting Bolts [B] and Nut
 - Main Shaft [C]
 - Rubber Seal [D]
- Remove:
 - Intermediate Shaft Clamp Bolt [A]
 - Intermediate Shaft [B]

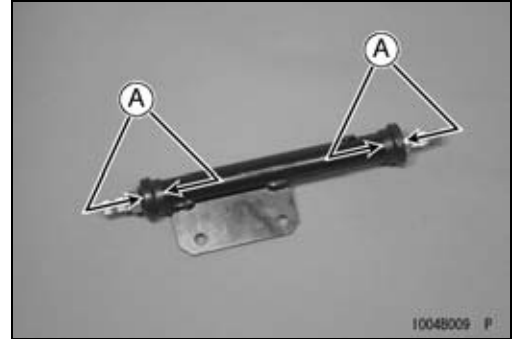


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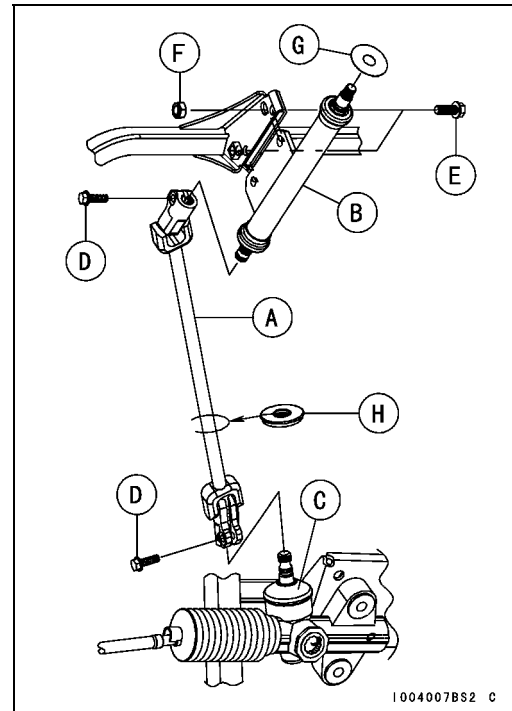
Steering Wheel and Main Shaft Assembly

Steering Shafts Installation

- Apply grease to the dust cover lips [A].



- Connect the intermediate shaft [A] to the main shaft [B] and the steering gear pinion [C] in any position.
- Tighten:
 - Torque - Intermediate Shaft Clamp Bolts [D]: 23 N·m (2.3 kgf·m, 17 ft·lb)**
- Install:
 - Main Shaft Mounting Bolts [E] and Nut [F]
- Tighten:
 - Torque - Main Shaft Mounting Bolt and Nut: 42 N·m (4.3 kgf·m, 31 ft·lb)**
- Install:
 - Washer [G]
- Install the rubber seal [H] so that the recess side faces to front side.



Steering Gear Assembly

Steering Gear Assembly Removal

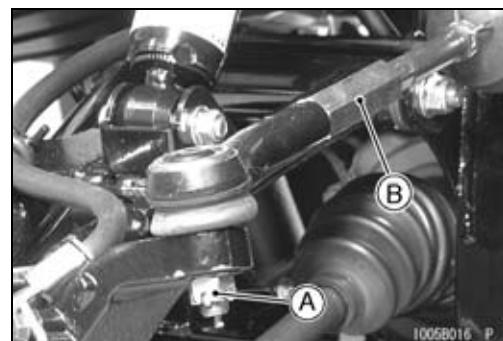
- Remove:
 - Front Wheel (see Wheel Removal in the Wheel/Tires chapter)
 - Intermediate Shaft Clamp Bolt [A]



- Remove:
 - Cotter Pins, Tie-rod End Nuts [A] and Washers (both sides)

CAUTION

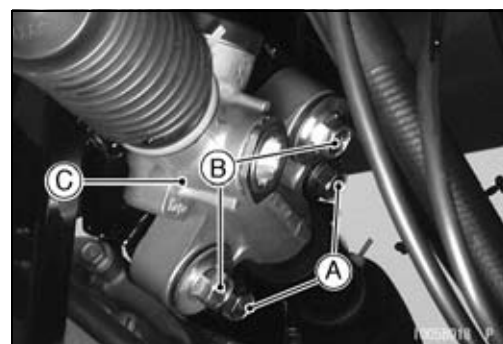
<p>Do not loosen the tie-rod end locknuts [B], or the toe-in of the front wheels will be changed.</p>
--



- Remove the tie-rod end [A] from the knuckle using a suitable joint remover [B].



- Remove:
 - Steering Gear Assembly Bracket Bolts [A]
 - Steering Gear Assembly Bolts [B], Washers and Nuts
 - Steering Gear Assembly [C]



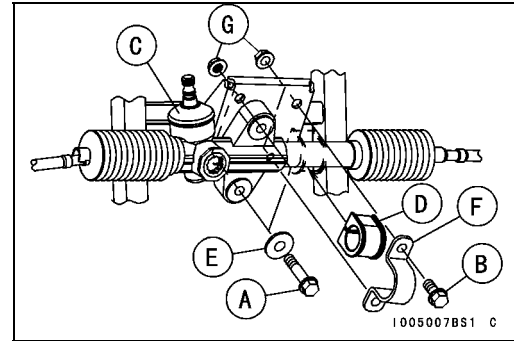
Steering Gear Assembly Installation

- Adjust if necessary:
 - Tie-rod Length Adjustment (see Toe-in Adjustment in the Wheels/Tires chapter)

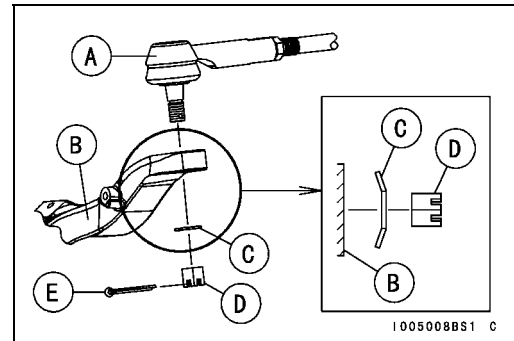
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Steering Gear Assembly

- Apply a non-permanent locking agent:
Steering Gear Assembly Bolts [A] M12, L = 60 mm (2.36 in.)
Steering Gear Assembly Bracket Bolts [B] M12, L = 25 mm (2.36 in.)
- Install:
Steering Gear Assembly [C]
Damper [D]
Washer [E] and Steering Gear Assembly Bolts
Bracket [F] and Steering Gear Assembly Bracket Bolts
- Tighten:
Torque - Steering Gear Assembly Nuts [G]: 96 N·m (9.8 kgf·m, 71 ft·lb)

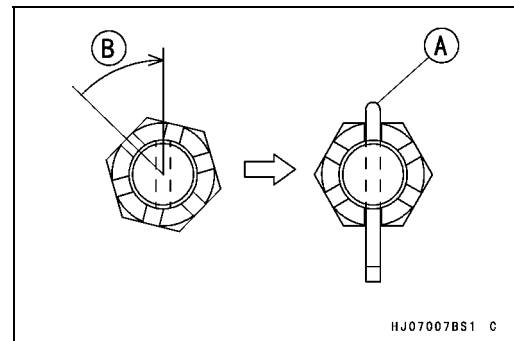


- Clean the tapered portion of the tie-rod end joint [A] and the tapered hole of the steering knuckle [B], or the tapers will not fit snugly.
- Install:
Washers [C] (both sides, as shown in the figure)
Tie-rod End Nuts [D] (both sides)
- Tighten:
Torque - Tie-rod End Nuts: 42 N·m (4.3 kgf·m, 31 ft·lb)
- Install:
New Cotter Pin [E]

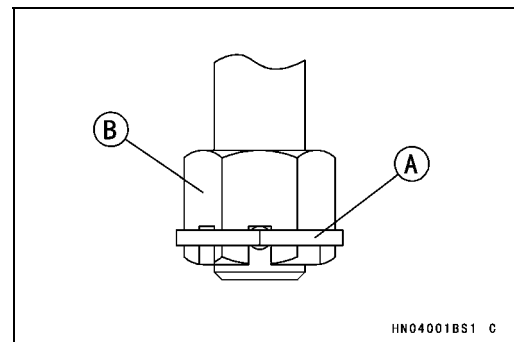


NOTE

- When inserting the cotter pin [A], if the slots in the nut do not align with the cotter pin hole in the axle, tighten the nut clockwise [B] up to next alignment.
- It should be within 30 degree.
- Loosen once and tighten again when the slot goes past the nearest hole.



- Bend the cotter pin [A] over the nut [B].

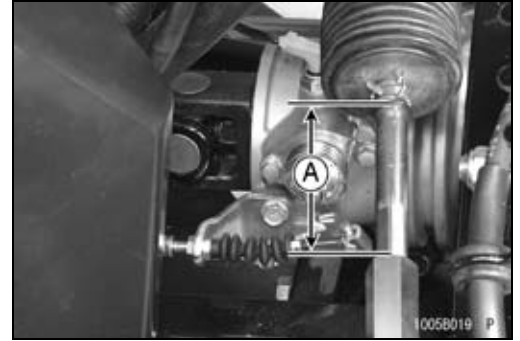


- Install the removed parts (see appropriate chapter).
- Check:
Toe-in of Front Wheels (see Toe-in Adjustment in the Wheels/Tires chapter)

Steering Gear Assembly

Tie-rod Length Adjustment

- Refer to Toe-in Adjustment in the Wheels/Tires chapter.
Tie-rod Length [A]



Steering Joint Dust Boot Inspection

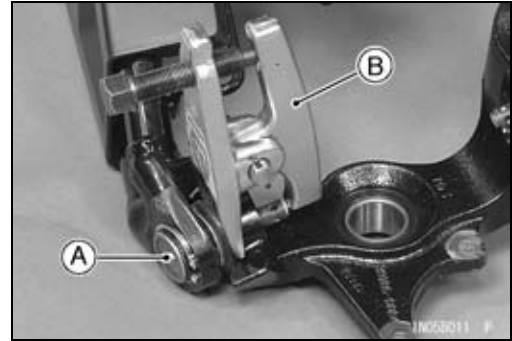
- Refer to Steering Joint Dust Boot Inspection in the Periodic Maintenance chapter.

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Steering Knuckles

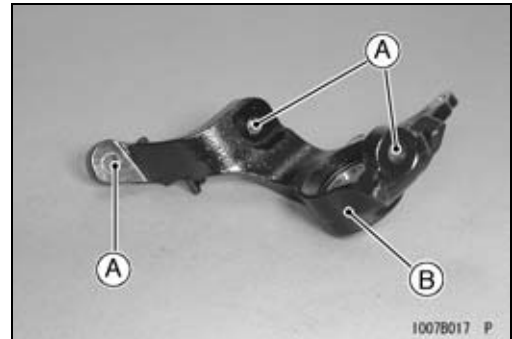
Steering Knuckle Removal

- Remove:
 - Front Wheel (see Wheel Removal in the Wheel/Tires chapter)
 - Front Hub (see Front Hub Removal in the Wheel/Tires chapter)
 - Suspension Arms (see Suspension Arm Removal in the Suspension chapter)
- Remove the knuckle joint [A] from the suspension arm using a suitable joint remover [B].

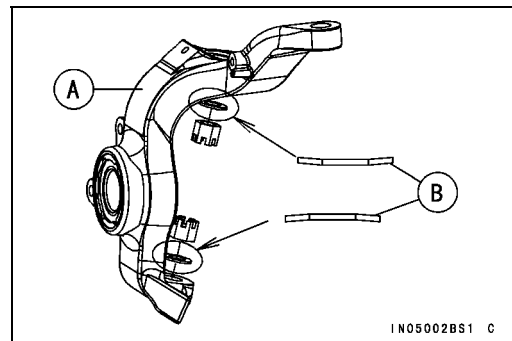


Steering Knuckle Installation

- Clean the taper surfaces [A] of the knuckle [B] and shank of the knuckle joint, or the tapers will not fit snugly.



- Install:
 - Knuckle [A], Washers [B] and Nuts
- Install the washer as shown in the figure.



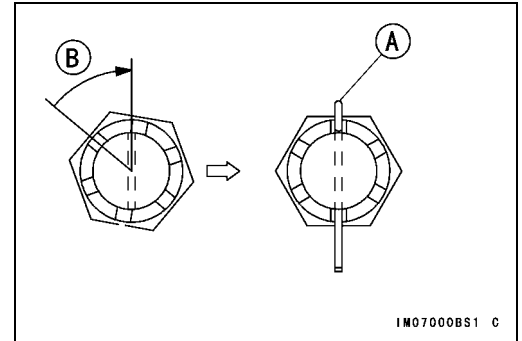
- Tighten:
 - Torque - Front Knuckle Joint Nuts: 47 N·m (4.8 kgf·m, 35 ft·lb)
 - Front Shock Absorber Mounting Nut: 58 N·m (5.9 kgf·m, 43 ft·lb)
- Install:
 - Tie-rod End (see Steering Gear Assembly Installation)

Steering Knuckles

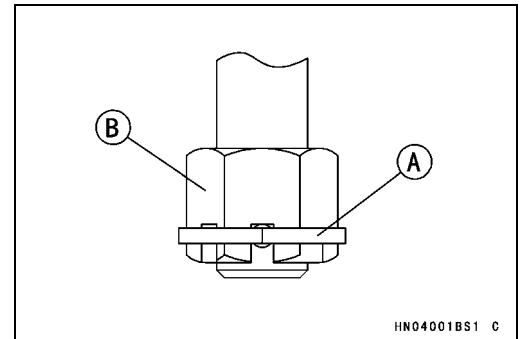
- Install:
New Cotter Pins [A]

NOTE

- When inserting the cotter pin, if the slots in the nut do not align with the cotter pin hole in the axle, tighten the nut clockwise [B] up to next alignment.
- It should be within 30 degree.
- Loosen once and tighten again when the slot goes past the nearest hole.



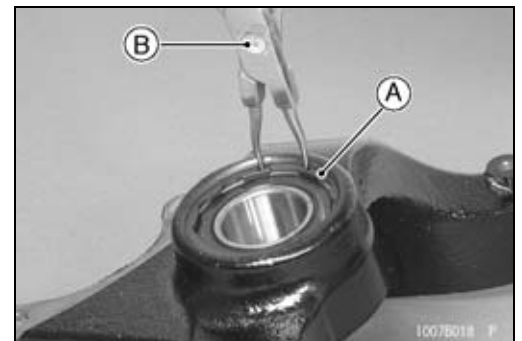
- Bend the cotter pin [A] over the nut [B].



- Install the removed parts (see appropriate chapter).

Knuckle Bearing Removal

- Remove:
Knuckle (see Steering Knuckle Removal)
Circlip [A]
- Special Tool - Outside Circlip Pliers [B]: 57001-144**



- Drive the bearing [A] out using a suitable bearing driver.
- Special Tool - Bearing Driver Set: 57001-1129**



Knuckle Bearing Installation

- Press in the bearing until it is bottomed.
Special Tool - Bearing Driver Set: 57001-1129
- Replace the circlip with a new one.
Special Tool - Outside Circlip Pliers: 57001-144

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