

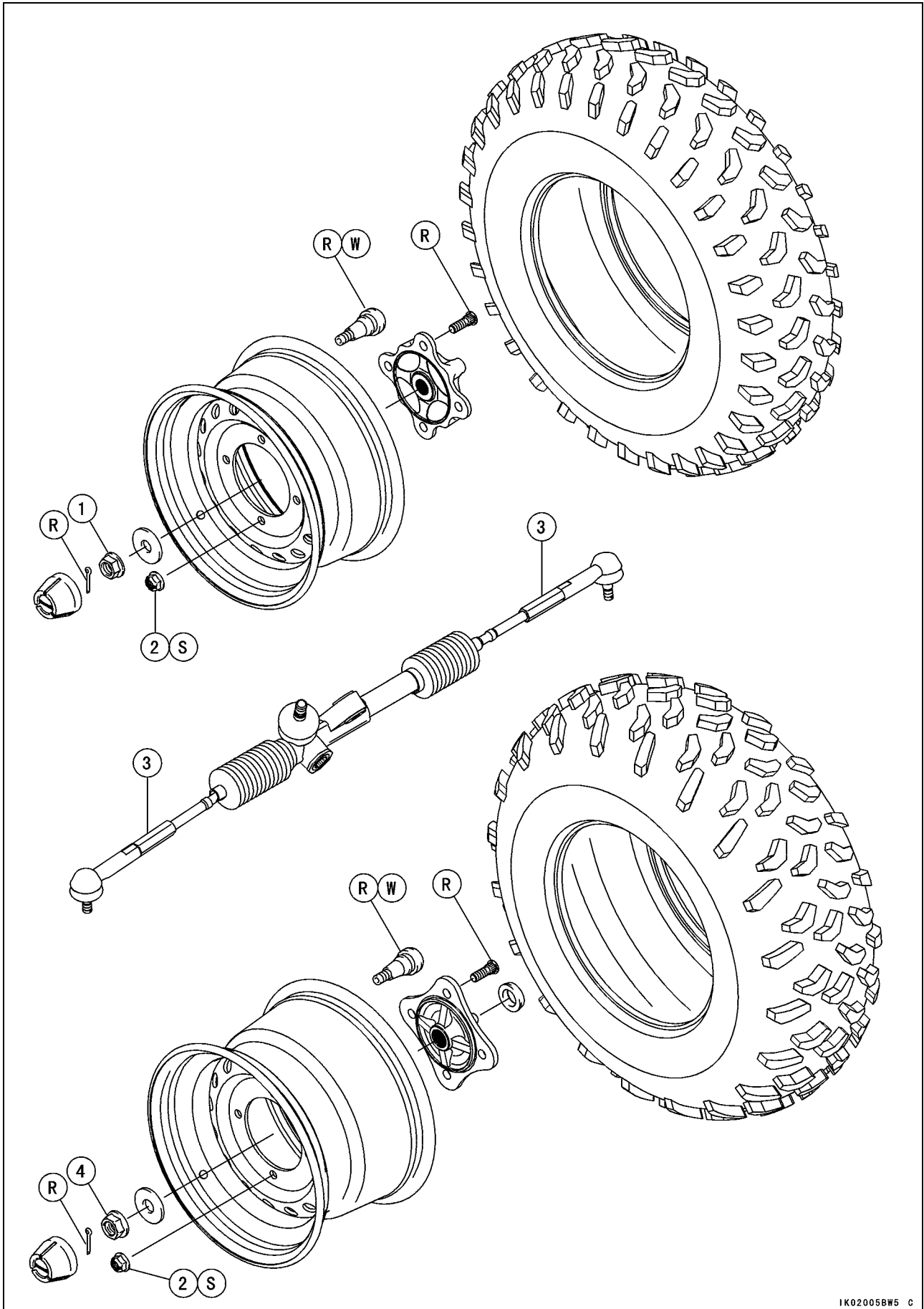
# Wheels/Tires

## Table of Contents

Exploded View .....	10-2
Specifications .....	10-4
Special Tools .....	10-5
Wheel Alignment .....	10-6
Toe-in Adjustment .....	10-6
Wheels (Rims) .....	10-8
Wheel Removal.....	10-8
Wheel Installation.....	10-8
Wheel (Rim) Inspection.....	10-8
Wheel (Rim) Replacement.....	10-9
Tires .....	10-10
Tire Removal.....	10-10
Tire Installation.....	10-10
Tire Inspection .....	10-11
Front Hub .....	10-12
Front Hub Removal.....	10-12
Front Hub Installation.....	10-12
Front Hub Disassembly/Assembly .....	10-13
Rear Hub .....	10-14
Rear Hub Removal .....	10-14
Rear Hub Installation .....	10-14
Rear Hub Disassembly/Assembly.....	10-15

# 10-2 WHEELS/TIRES

## Exploded View



**Exploded View**

No.	Fastener	Torque			Remarks
		N·m	kgf·m	ft·lb	
1	Front Axle Nuts	266	27	196	
2	Wheel Nuts	137.3	14	101	S
3	Tie-rod End Locknuts	44	4.5	32	
4	Rear Axle Nuts	266	27	196	

R: Replacement Parts

S: Follow the specific tightening sequence.

W: Apply water or soap and water solution.

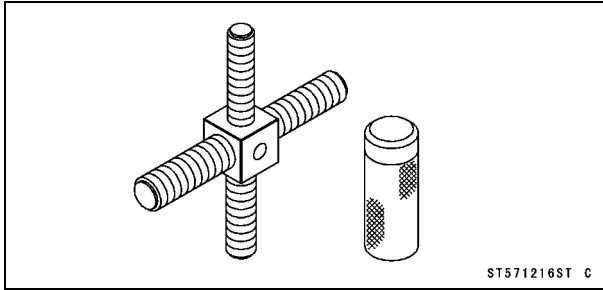
## 10-4 WHEELS/TIRES

### Specifications

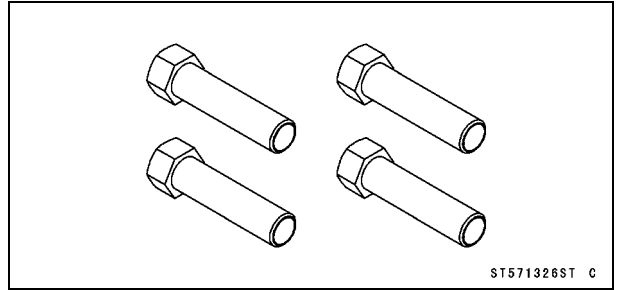
Item	Standard	Service Limit
<b>Wheel Alignment</b>		
Caster	2.5° (non-adjustable)	---
Camber	-1.2° (non-adjustable)	---
Toe-in	20 ~ 40 mm (0.79 ~ 1.57 in.) at 1G	---
<b>Wheels (Rims)</b>		
Rims Size:		
Front	12 × 6.0	---
Rear	12 × 8.0	---
<b>Tires</b>		
Standard Tire:		
Front	26 × 8.00-12 MAXXIS, M989, Tubeless	---
Rear	26 × 10.00-12 MAXXIS, M990, Tubeless	---
Tire Air Pressure (when cold):		
Front	60 kPa (0.6 kgf/cm <sup>2</sup> , 8.7 psi)	---
Rear	90 kPa (0.9 kgf/cm <sup>2</sup> , 13.1 psi)	---
Maximum Tire Air Pressure (to seat beads, when cold)	250 kPa (2.5 kgf/cm <sup>2</sup> , 36 psi)	---
Tire Tread Depth:		
Front	---	4 mm (0.16 in.)
Rear	---	4 mm (0.16 in.)

Special Tools

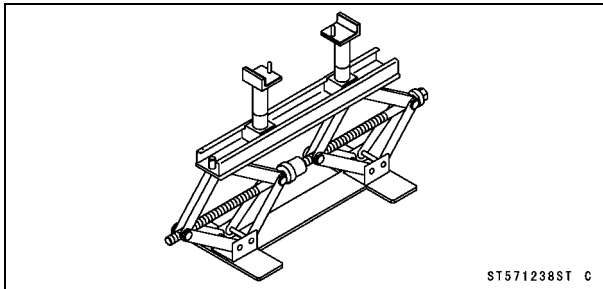
Rotor Puller, M16/M18/M20/M22 × 1.5:  
57001-1216



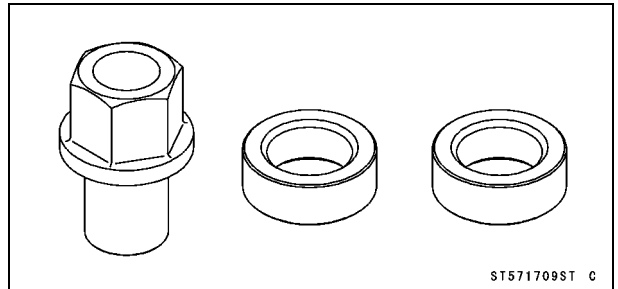
Brake Drum Remover Nuts:  
57001-1326



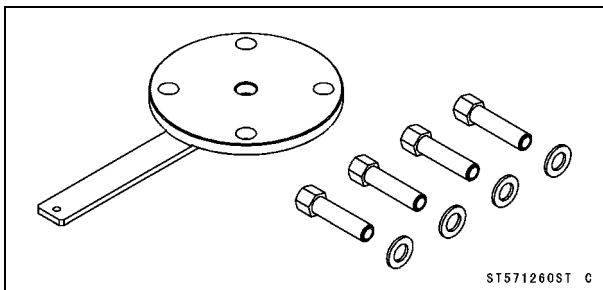
Jack:  
57001-1238



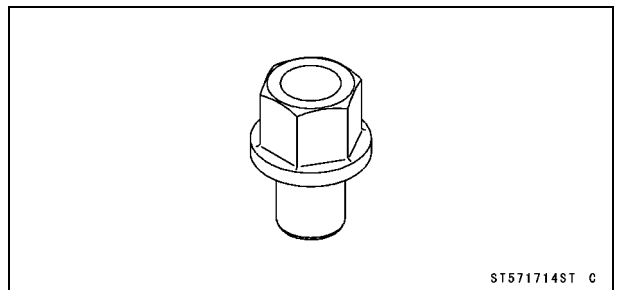
Brake Drum Pusher & Washer:  
57001-1709



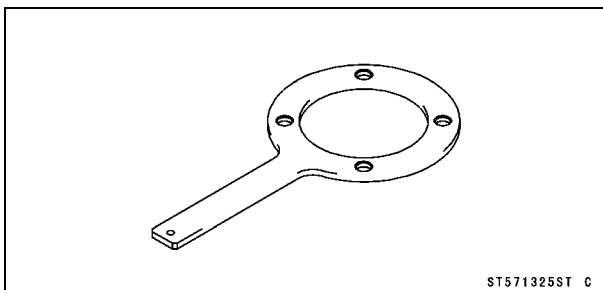
Brake Drum Remover:  
57001-1260



Brake Drum Pusher:  
57001-1714



Brake Drum Holder:  
57001-1325



## 10-6 WHEELS/TIRES

### Wheel Alignment

Toe-in is the amount that the front wheels are closer together in front than at the rear at the axle height. When there is toe-in, the distance **A** (Rear) is greater than **B** (Front) as shown. The purpose of toe-in is to prevent the front wheels from getting out of parallel at any time, and to prevent any slipping or scuffing action between the tires and the ground. If toe-in is incorrect, the front wheels will be dragged along the ground, scuffing and wearing the tread knobs.

Caster and camber are built-in and require no adjustment.

$A$  (Rear) -  $B$  (Front) = Amount of Toe-in

(Distance A and B are measured at hub height)

#### Toe-in Adjustment

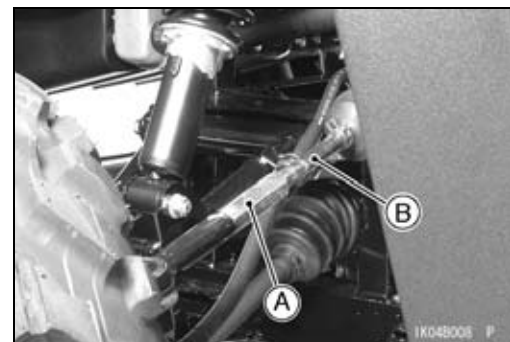
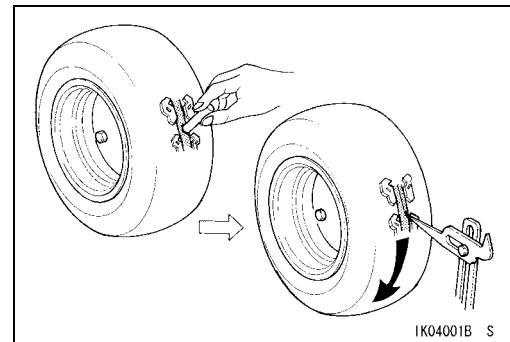
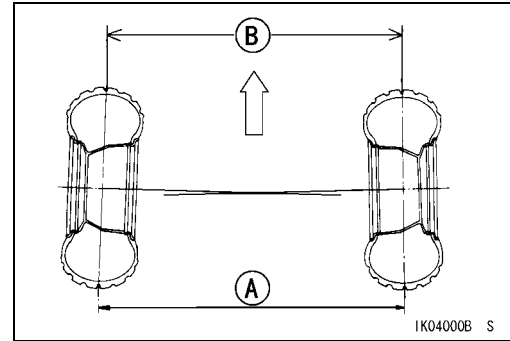
- Lift the front wheels off the ground.
- Apply a heavy coat of chalk near the center of the front tires.
- Using a needle nose scriber, make a thin mark near the center of the chalk coating while turning the wheel.
- Set the wheels so that the marks on the tires are at the front side and at the level of the axle height.
- Ground the front wheels.
- Set the steering wheel straight ahead.
- At the level of the axle height, measure the distance between the scribed lines with a measure.
- Move the vehicle rearward until the marks on the front tires are at the rear side and at the same level as the axle.
- Measure the distance between the scribed lines.
- Subtract the measurement of the front from the measurement of the rear to get the toe-in.

#### Toe-in of Front Wheels

**Standard: 20 ~ 40 mm (0.79 ~ 1.57 in.) at 1G**

★ If the toe-in is not the specified value, perform the following procedure.

- Loosen the locknuts [A] on each tie-rod and turn the adjusting rods [B] the same number of turns and the same direction on both sides to achieve the specified toe-in.

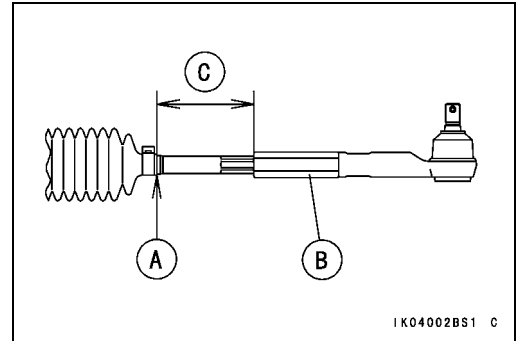


## Wheel Alignment

### NOTE

○ The toe-in will be near the specified range, if the length of the tie-rod distance between the dust boot end [A] of steering gear assembly and the locknut [B] is 80 mm (3.15 in.) [C] on both the left and right tie-rods.

- Tighten:  
**Torque - Tie-rod End Locknuts: 44 N·m (4.5 kgf·m, 32 ft·lb)**
- Check the toe-in again.
- Test drive the vehicle.



## 10-8 WHEELS/TIRES

### Wheels (Rims)

#### Wheel Removal

- Loosen the wheel nuts [A].
- Lift the wheels off the ground.

Special Tool - Jack: 57001-1238

- Remove:
  - Wheel Nuts
  - Wheel

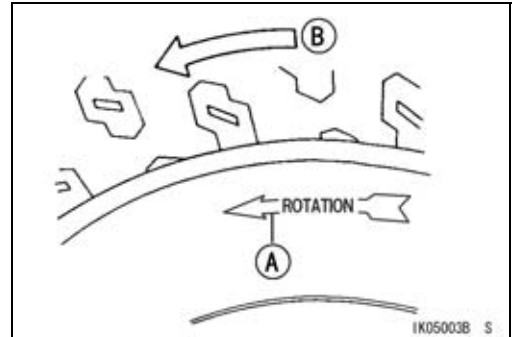


#### Wheel Installation

- Check the tire rotation mark [A] on the tire, and install the tire on the rim accordingly.

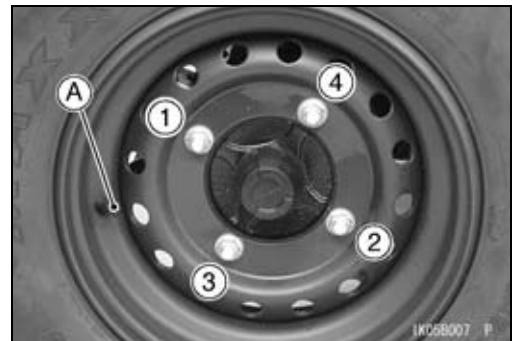
#### NOTE

○ The direction of the tire rotation [B] is shown by an arrow on the tire sidewall.



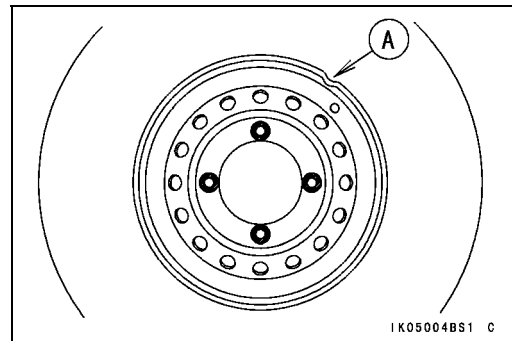
- Position the wheel so that the air valve [A] is toward the outside of the vehicle.
- Wipe dry the threads of the bolts.
- Tighten the wheel nuts in a criss-cross pattern.

Torque - Wheel Nuts: 137.3 N·m (14 kgf·m, 101 ft·lb)

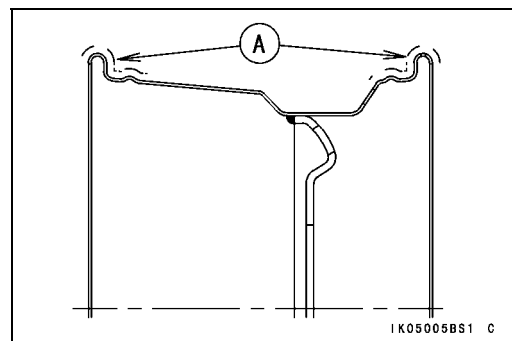


#### Wheel (Rim) Inspection

- Examine both sides of the rim for dents [A].
- ★ If the rim is dented, replace it.



- ★ If the tire is removed, inspect the air sealing surfaces [A] of the rim for scratches or nicks. Smooth the sealing surfaces with fine emery cloth if necessary.





**Wheels (Rims)**

**Wheel (Rim) Replacement**

- Remove the wheel (see Wheel Removal).
- Disassemble the tire from the rim (see Tire Removal).
- Remove the valve stem and discard it.

**CAUTION**

**Replace the air valve whenever the tire is replaced.  
Do not reuse the air valve.**

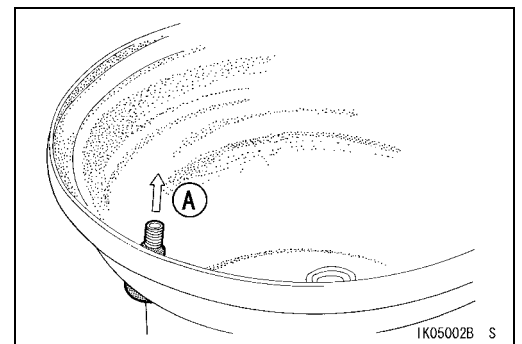
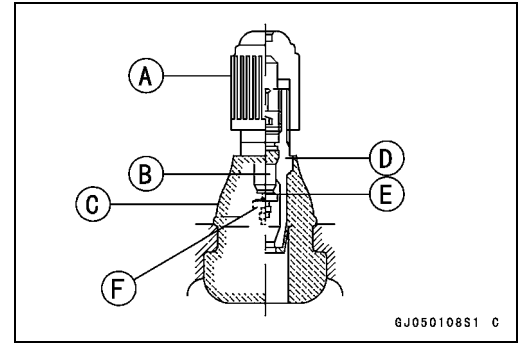
- Plastic Cap [A]
- Valve Core [B]
- Stem Seal [C]
- Valve Stem [D]
- Valve Seat [E]
- Valve Opened [F]

- Install a new air valve in the new rim.
- Remove the valve cap, lubricate the stem with a soap and water solution, and pull the stem [A] through the rim from the inside out until it snaps into place.

**CAUTION**

**Do not use engine oil or petroleum distillates to lubricate the stem because they will deteriorate the rubber.**

- Mount the tire on the new rim (see Tire Installation).
- Install the wheel (see Wheel Installation).
- Install the air valve cap.



# 10-10 WHEELS/TIRES

## Tires

### Tire Removal

- Remove:
  - Wheel (see Wheel Removal)
  - Valve Core (let out the air)
- Lubricate the tire beads and rim flanges on both sides of the wheel with a soap and water solution, or water [A]. This helps the tire beads slip off the rim flanges.

#### CAUTION

**Do not lubricate the tire beads and rim flanges with engine oil or petroleum distillates because they will deteriorate the tire.**

- Remove the tire from the rim using a suitable commercially available tire changer.

#### NOTE

○ *The tires cannot be removed with hand tools because they fit the rims tightly.*

### Tire Installation

- Inspect the rim.
- Check the tire for wear and damage.
- Replace the air valve with a new one.

#### CAUTION

**Replace the air valve whenever the tire is replaced. Do not reuse the air valve.**

- Lubricate the tire beads and rim flanges with a soap and water solution, or water.

#### ⚠ WARNING

**Do not use any lubricant other than a water and soap solution, or water to lubricate the tire beads and rim because it may cause tire separation, and a hazardous condition may result.**

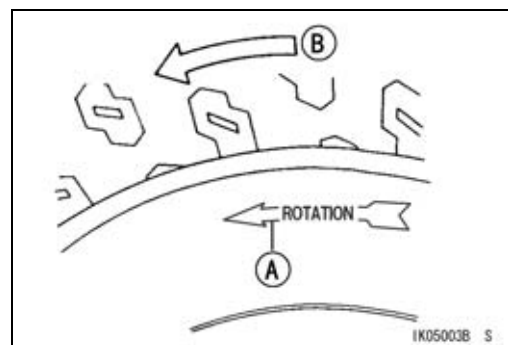
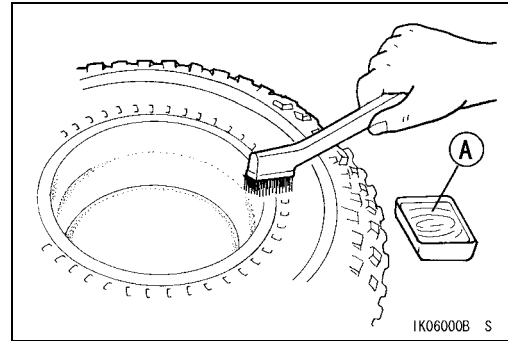
- Check the tire rotation mark [A] on the tire, and install the tire on the rim accordingly.

#### NOTE

○ *The direction of the tire rotation [B] is shown by an arrow on the tire sidewall.*

- The tires should be installed on the rim so that each air valve is toward the outside of the vehicle.

- Install the tire on the rim using a suitable commercially available tire changer.
- Lubricate the tire beads again and center the tire on the rim.



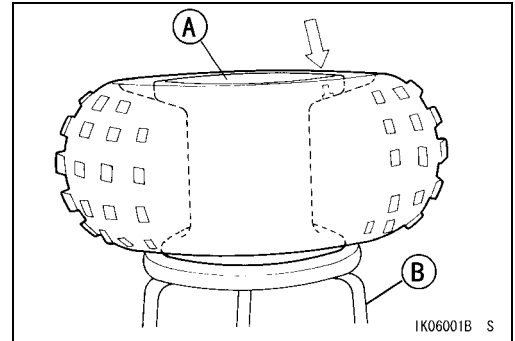
**Tires**

- Support the wheel rim [A] on a suitable stand [B] to prevent the tire from slipping off.
- Inflate the tire until the tire beads seat on the rim.

**Maximum Tire Air Pressure (to seat beads, when cold)**  
**Front and Rear: 250 kPa (2.5 kgf/cm<sup>2</sup>, 36 psi)**

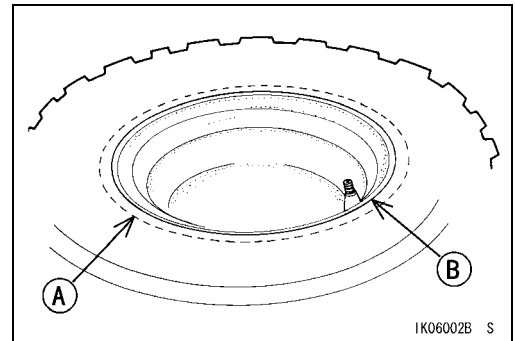
**⚠ WARNING**

**Do not inflate the tire to more than the maximum tire air pressure. Overinflation can explode the tire with possibility of injury and loss of life.**



- Check to see that the rim lines [A] on both sides of the tire are parallel with the rim flanges [B].
- ★ If the rim lines and the rim flanges are not parallel, deflate the tire, lubricate the sealing surfaces again, and reinflate the tire.
- After the beads are properly seated, check for air leaks.
- Apply a soap and water solution around the tire bead and check for bubbles.
- Check the tire pressure using an air pressure gauge.

**Tire Air Pressure (when cold)**  
**Front: 60 kPa (0.6 kgf/cm<sup>2</sup>, 8.7 psi)**  
**Rear: 90 kPa (0.9 kgf/cm<sup>2</sup>, 13.1 psi)**



- Install the air valve cap.
- Install the wheel (see Wheel Installation).
- Wipe off the soap and water solution, or water on the tire, and dry the tire before operation.

**⚠ WARNING**

**Do not operate the vehicle with the water and soap, or water still around the tire beads. They will cause tire separation, and a hazardous condition may result.**

***Tire Inspection***

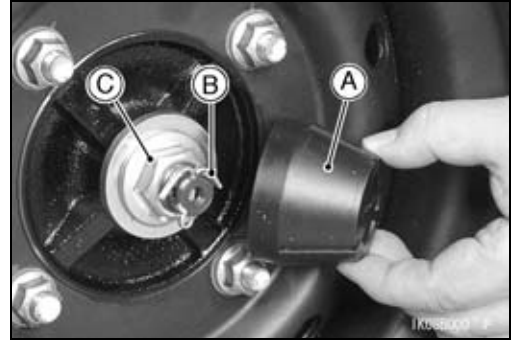
- Refer to Tire Inspection in the Periodic Maintenance chapter.

## 10-12 WHEELS/TIRES

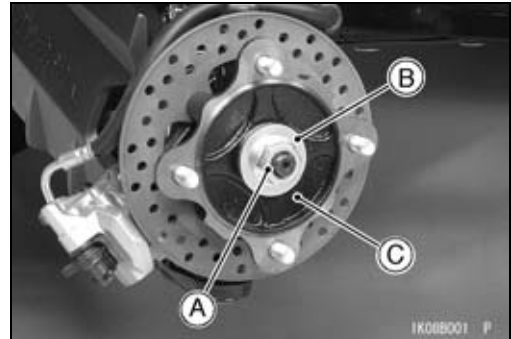
### Front Hub

#### Front Hub Removal

- Remove:
  - Cap [A]
  - Cotter Pin [B]
- Loosen the axle nut [C], while applying the brake.



- Remove the front wheel (see Wheel Removal).
- Remove the caliper by taking off the mounting bolts, and let the caliper hang free.
- Remove:
  - Axle Nut [A] and Washer [B]
  - Front Hub [C] with Brake Disc
- ★ If the front hub seems too difficult to remove, use the following special tools.

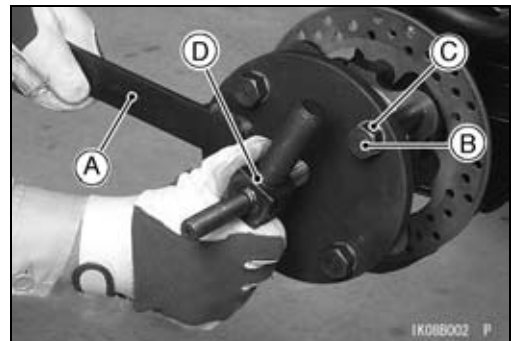


- Mount the brake drum remover [A] on the hub bolt with the remover nuts [B] and washers [C] (parts in the remover set).

**Special Tools - Brake Drum Remover: 57001-1260**  
**Brake Drum Remover Nut: 57001-1326**

- Tighten the rotor puller [D], and remove the front hub.

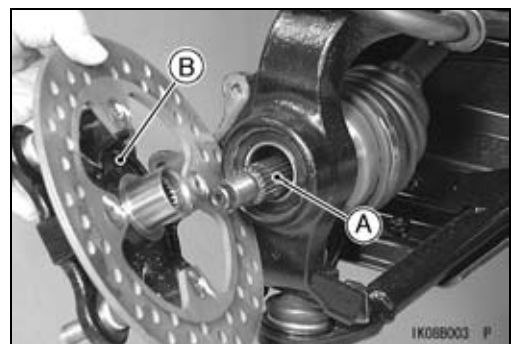
**Special Tool - Rotor Puller, M16/M18/M20/M22 × 1.5 :**  
**57001-1216**



- Separate the brake disc from the front hub (see Disc Removal in the Brakes chapter).

#### Front Hub Installation

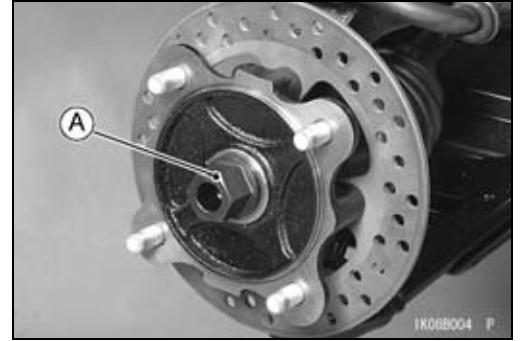
- Install:
  - Brake Disc (see Disc Installation in the Brakes chapter)
- Apply grease to the spline [A] of the front axle.
- Install:
  - Front Hub [B]
- ★ If the front hub seems too difficult to install, use the following special tool.



**Front Hub**

○Using the brake drum pusher [A], and tighten it until the pusher stops.

**Special Tool - Brake Drum Pusher: 57001-1714**

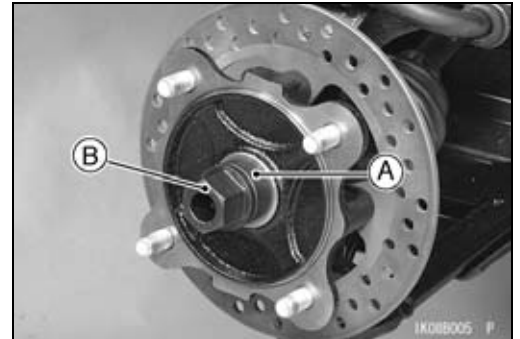


○Remove the brake drum pusher, and install one spacer [A] in the brake drum pusher set (57001-1709) to the pusher.

○Tighten the hub pusher [B] until the pusher stops.

○Remove the brake drum pusher and spacer.

**Special Tool - Brake Drum Pusher: 57001-1709**



- Install:
  - Washer [A]
  - Axle Nut [B]

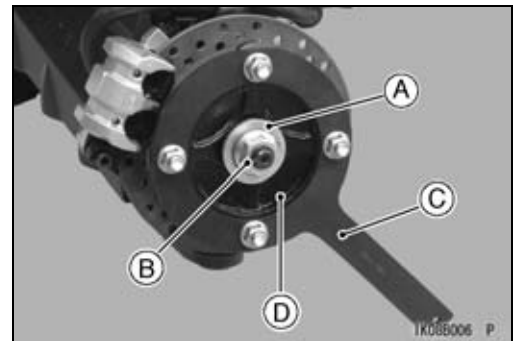
● Using the brake drum holder [C], hold the front hub [D].

**Special Tool - Brake Drum Holder: 57001-1325**

● Tighten:

**Torque - Axle Nut: 266 N·m (27 kgf·m, 196 ft·lb)**

- Insert a new cotter pin.
- Bend the cotter pin over the axle shaft end and install the cap.



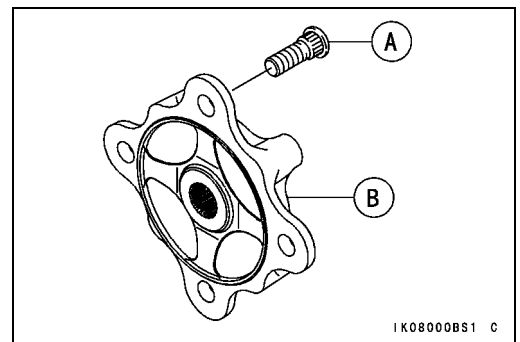
**⚠ WARNING**

**If the axle nut is not securely tightened or the cotter pin is not installed, an unsafe riding condition may result.**

- Install:
  - Brake Caliper (see Brake Caliper Installation in the Brakes chapter)
  - Front Wheels (see Wheel Installation)

**Front Hub Disassembly/Assembly**

- Do not remove the hub bolts [A].
- ★ If any hub bolt is damaged, replace the hub [B] and bolts as a unit.
- When installing the hub bolt, press in it using a press.

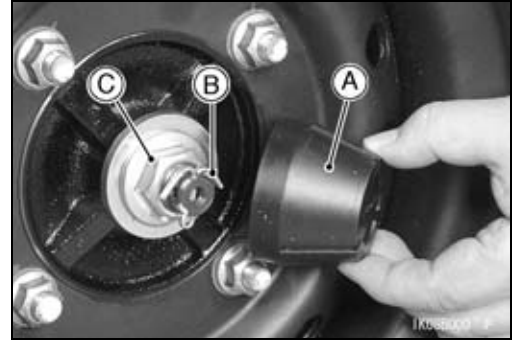


# 10-14 WHEELS/TIRES

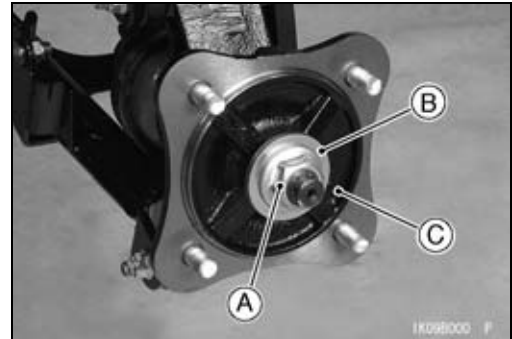
## Rear Hub

### Rear Hub Removal

- Remove:
  - Cap [A]
  - Cotter Pin [B]
- Loosen the axle nut [C], while applying the brake.



- Remove the rear wheel (see Wheel Removal).
  - Remove:
    - Axle Nut [A] and Washer [B]
    - Front Hub [C]
- ★ If the rear hub seems too difficult to remove, use the following special tools.

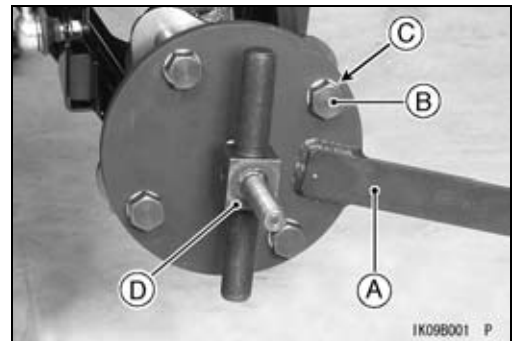


- Mount the brake drum remover [A] on the hub bolt with the remover nuts [B] and washers [C] (parts in the remover set).

**Special Tools - Brake Drum Remover: 57001-1260**  
**Brake Drum Remover Nut: 57001-1326**

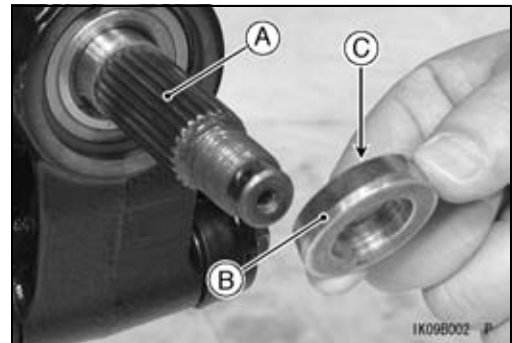
- Tighten the rotor puller [D], and remove the rear hub.

**Special Tool - Rotor Puller, M16/M18/M20/M22 × 1.5 : 57001-1216**



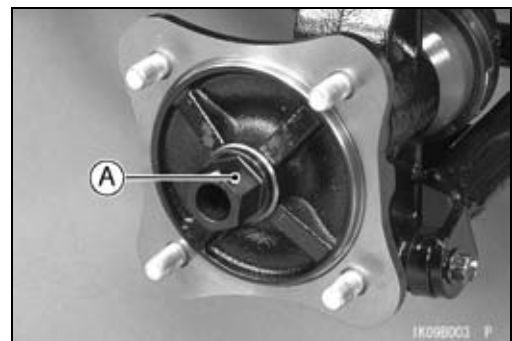
### Rear Hub Installation

- Apply grease to the spline [A] of the front axle.
  - Install the collar [B] so that the small diameter side [C] faces to knuckle.
  - Install:
    - Rear Hub
- ★ If the rear hub seems too difficult to install, use the following special tool.



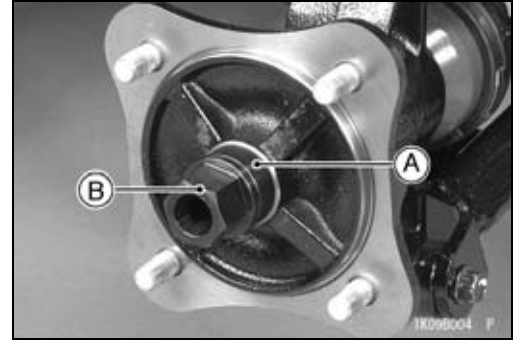
- Using the brake drum pusher [A], and tighten it until the pusher stops.

**Special Tool - Brake Drum Pusher: 57001-1709**

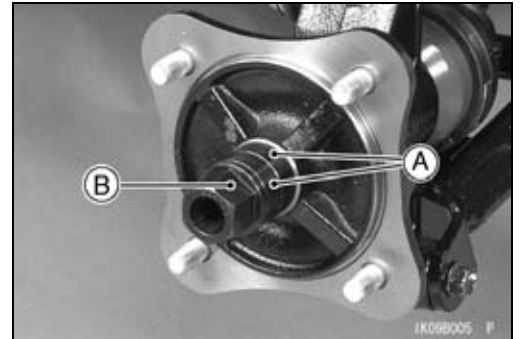


**Rear Hub**

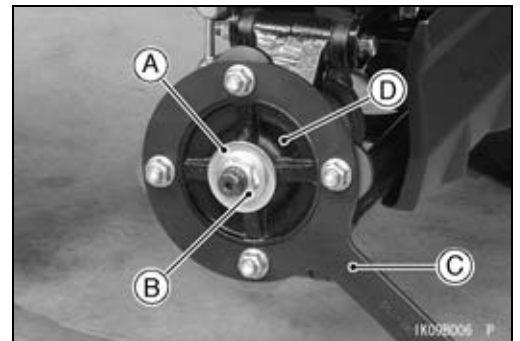
- Remove the brake drum pusher, and install one spacer [A] in the brake drum pusher set to the pusher.
- Tighten the brake drum pusher [B] until the pusher stops.



- Remove the brake drum pusher, and install two spacers [A] in the brake drum pusher set to the pusher.
- Tighten the brake drum pusher [B] until the pusher stops.
- Remove the brake drum pusher and spacers.



- Install:
  - Washer [A]
  - Axle Nut [B]
- Using the brake drum holder [C], hold the front hub [D].
  - Special Tool - Brake Drum Holder: 57001-1325**
- Tighten:
  - Torque - Axle Nut: 266 N·m (27 kgf·m, 196 ft·lb)**
- Insert a new cotter pin.
- Bend the cotter pin over the axle shaft end and install the cap.



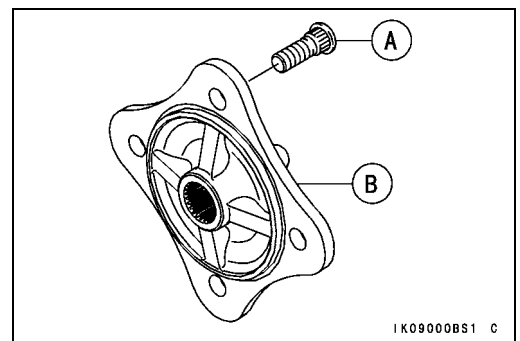
**⚠ WARNING**

**If the axle nut is not securely tightened or the cotter pin is not installed, an unsafe riding condition may result.**

- Install:
  - Rear Wheels (see Wheel Installation)

**Rear Hub Disassembly/Assembly**

- Do not remove the hub bolts [A].
- ★ If any hub bolt is damaged, replace the hub [B] and bolts as a unit.
- When installing the hub bolt, press in it using a press.



**2008 KAWASAKI TERYX 750 4x4  
Repair Service Manual KVF750 PDF**

# **Download Full Service Manual**



**Click Link below  
or Copy-paste to your browser**

**<https://bit.ly/TeryxServiceManual>**

**OR here**

**<https://www.downloadservicemanuals.com/product/2008-kawasaki-teryx-750-4x4-repair-service-manual-kvf750-pdf-download/>**