

REAR WHEEL/SUSPENSION

TOOLS

| | |
|-------------------------------------|--|
| Bearing remover, 17 mm | 07936-3710300 |
| Remover handle | 07936-3710100 |
| Remover weight | 07936-371020A or 07936-3710200 |
| Driver | 07949-3710001 |
| Attachment, 22 × 24 mm | 07746-0010800 |
| Attachment, 28 × 30 mm | 07946-1870100 |
| Attachment, 37 × 40 mm | 07746-0010200 |
| Pilot, 17 mm | 07746-0040400 |
| Pilot, 20 mm | 07746-0040500 |
| Lock nut wrench | 07908-4690003 |
| Adjustable bearing puller, 24–40 mm | 07736-A01000B or 07736-A01000A (U.S.A. only) use with commercially available 3/8" × 16 slide hammer |

TROUBLESHOOTING

Rear wheel wobbling

- Bent rim
- Worn or damaged rear axle bearings
- Faulty rear tire
- Axle fastener not tightened properly
- Faulty swingarm pivot bearings

Rear wheel turns hard

- Faulty rear axle bearings
- Bent rear axle
- Rear brake drag

Soft suspension

- Weak shock absorber spring
- Oil leakage from damper unit

Hard suspension

- Damaged rear suspension pivot bearing or bushing
- Damaged swingarm pivot bearing
- Improperly tightened swingarm pivot

Rear suspension noise

- Faulty rear shock absorber
- Loose rear suspension fasteners
- Worn rear suspension pivot bearing or bushing

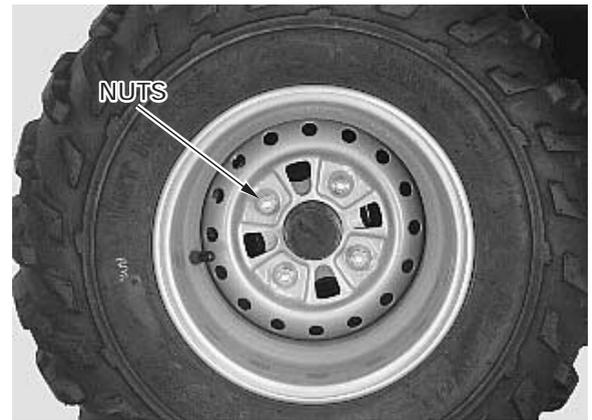
REAR WHEEL

REMOVAL

Loosen the wheel nuts.

Support the vehicle with a support block to raise the rear wheels off the ground.
Remove the nuts and wheel.

For tire removal/installation and repair, refer to section 12.



INSTALLATION

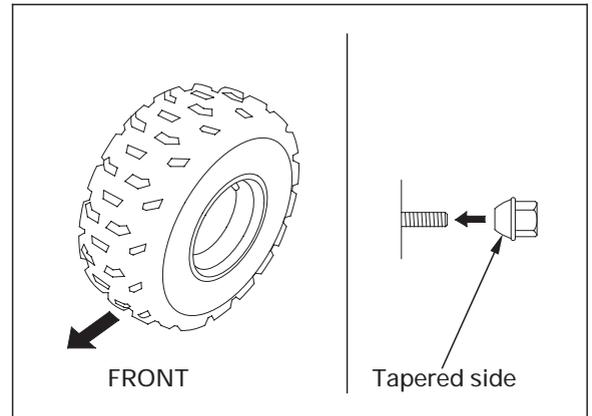
Install the wheel with the arrow mark facing in the normal rotating direction.

NOTE:

- Do not interchange the left and right tires.

Install the wheel nuts with the tapered side facing inward and tighten them.

TORQUE: 64 N·m (6.5 kgf·m , 47 lbf·ft)

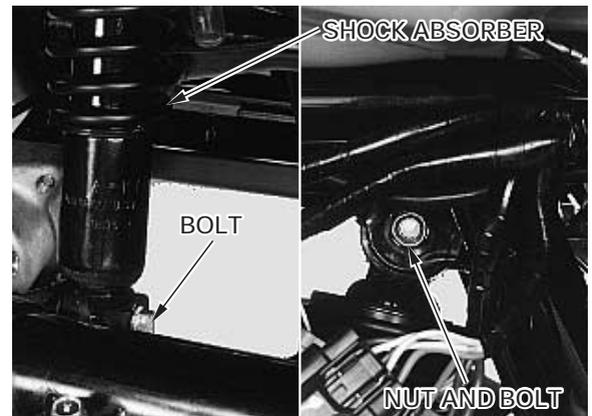


REAR SHOCK ABSORBER

REMOVAL

Support the vehicle with a support block to raise the rear wheels off the ground.

Support the swingarm and remove mounting nut, bolts and the shock absorber.



INSPECTION

Be careful not to lose the needle rollers of the bearing.

Remove the lower pivot collar and check the needle bearing, pivot collar, dust seals and upper pivot bushing for wear or damage.
Check the damper unit for leakage or other damage.
Replace the shock absorber assembly if necessary.

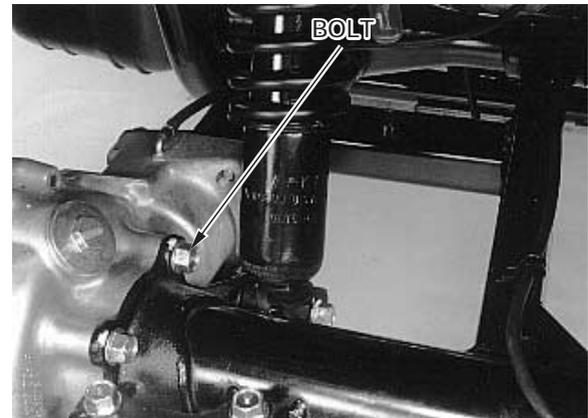
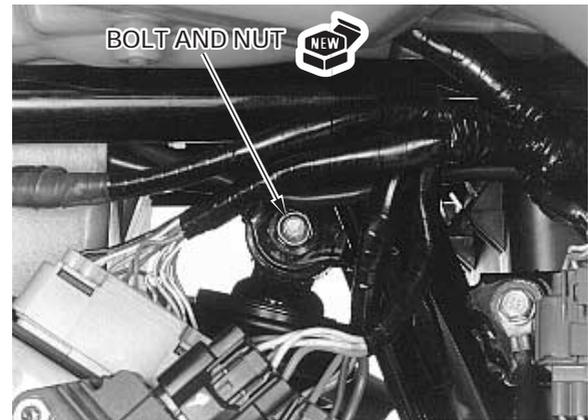


INSTALLATION

Set the shock absorber into the frame and swing-arm, then install the upper bolts from the left side and the lower bolt from the right side.

Install a new upper mounting nuts and tighten the nut and bolt.

TORQUE: Upper/Lower: 44 N·m (4.5 kgf·m , 33 lbf·ft)



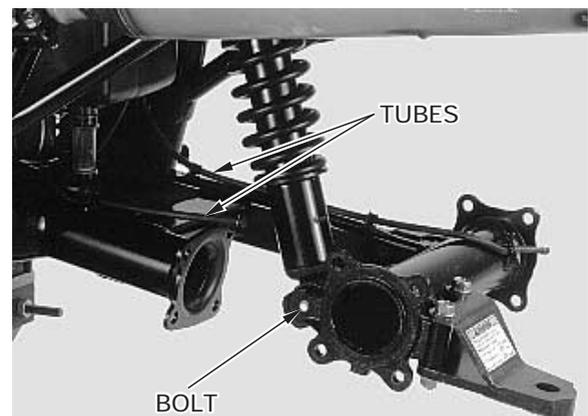
SWINGARM

REMOVAL

Remove the final gear case (section 16).

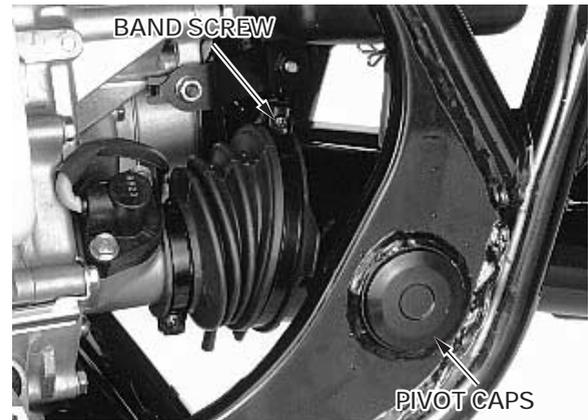
Support the swingarm and remove the following:

- breather tubes from the clamps
- shock absorber lower mounting bolt



Remove left and right pivot caps.

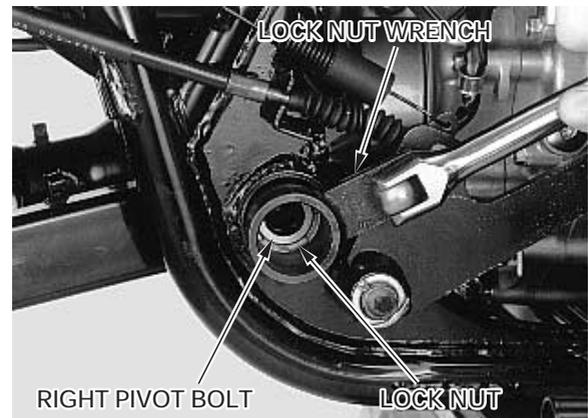
Loosen the joint boot band screw.



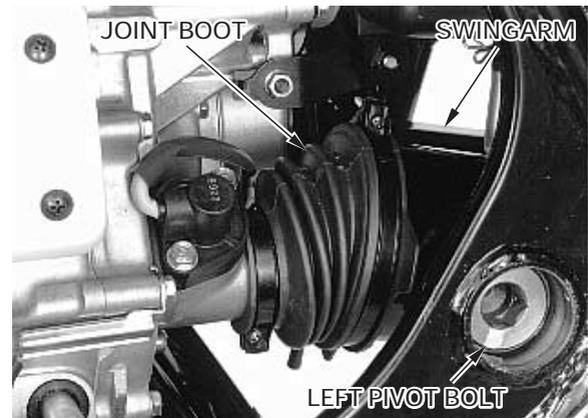
Loosen the right pivot lock nut and remove it.

TOOL:

Lock nut wrench 07908-4690003



Remove the right and left pivot bolts and release the joint boot off the swingarm, then remove the swingarm.



Remove the universal joint.

Check the joint boots for tears or other damage.



INSPECTION

Both bearings, outer races and grease holders must be replaced as a set if any part is damaged or worn.

Remove the dust seals.
Check the dust seals for wear or damage.
Turn the inner race of each bearing with your finger. The bearings should turn smoothly and quietly. Also check that the bearing outer race fits tightly in the pivot.

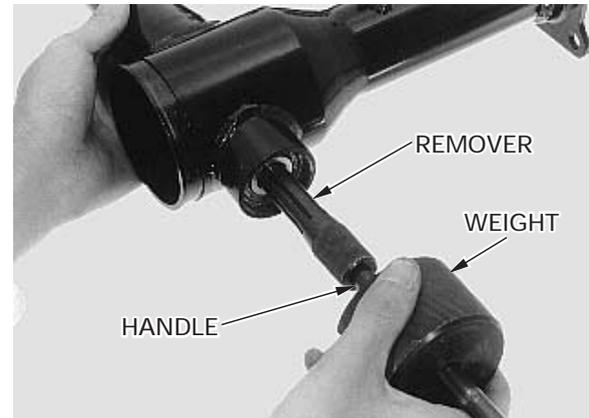


BEARING REPLACEMENT

Remove the pivot bearing using the special tools.

TOOLS:

Bearing remover, 17 mm 07936-3710300
Remover handle 07936-3710100
Remover weight 07936-371020A or 07936-3710200



Drive the grease holder into the swingarm to remove it.

TOOLS:

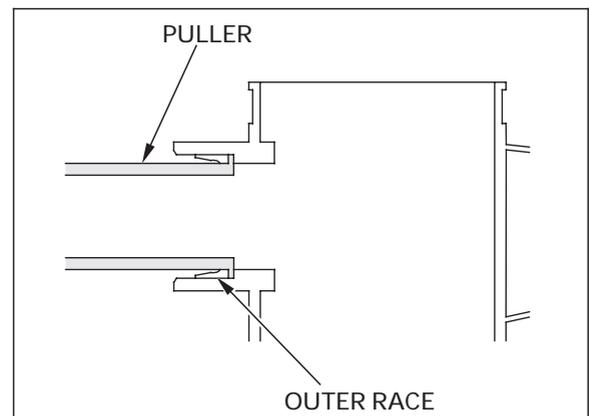
Driver 07749-0010000
Attachment, 28 × 30 mm 07946-1870100



Pull the outer race out of the swingarm using a commercially available 3/8 in × 16 sliding hammer and the special tool.

TOOL:

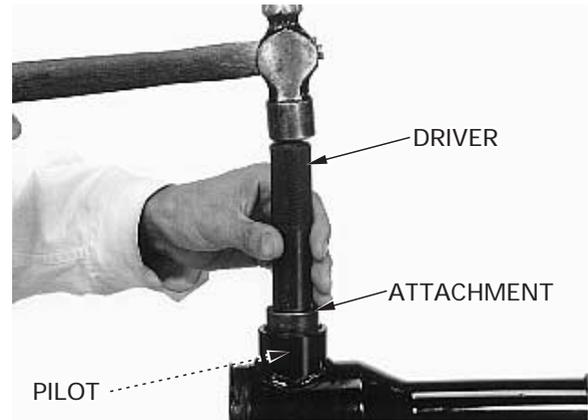
Adjustable bearing puller, 24—40 mm 07736-A01000B or 07736-A01000A (U.S.A. only)



Install the grease holder into the swingarm pivot.
Drive in a new bearing squarely until it is fully seated.

TOOLS:

| | |
|-------------------------------|---------------|
| Driver | 07749-0010000 |
| Attachment, 37 × 40 mm | 07746-0010200 |
| Pilot, 17 mm | 07746-0040400 |



Pack 3 g (0.1 oz) of grease into each bearing cavity and grease holder.

Apply grease to new dust seal lips and install them into the swingarm pivot until they are flush with the pivot end, using the same tools.



INSTALLATION

Apply molybdenum disulfide grease to the output shaft spline and install the universal joint onto the output shaft.



Set the swingarm into the frame and install the left and right pivot bolts.

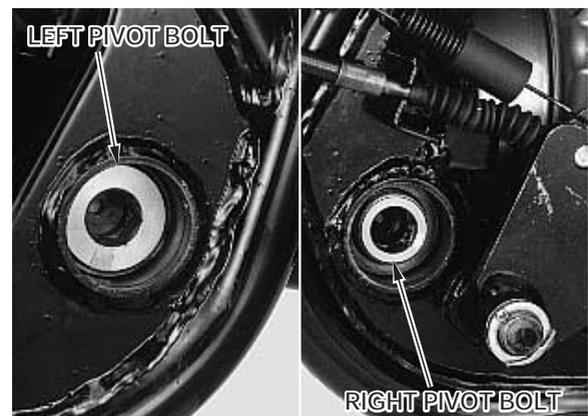
Tighten the left pivot bolt.

TORQUE: 118 N·m (12.0 kgf·m , 87 lbf·ft)

Tighten the right pivot bolt.

TORQUE: 4 N·m (0.4 kgf·m , 2.9 lbf·ft)

Move the swingarm up and down several times to seat the pivot bearings.
Retighten the pivot bolts to the same torque.



REAR WHEEL/SUSPENSION

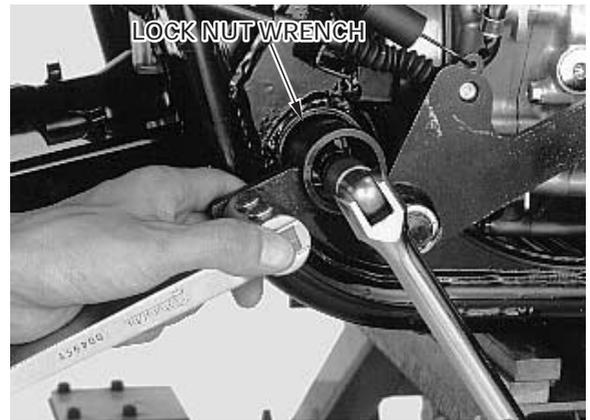
Tighten the right pivot lock nut while holding the pivot bolt.

TOOL:

Lock nut wrench 07908-4690003

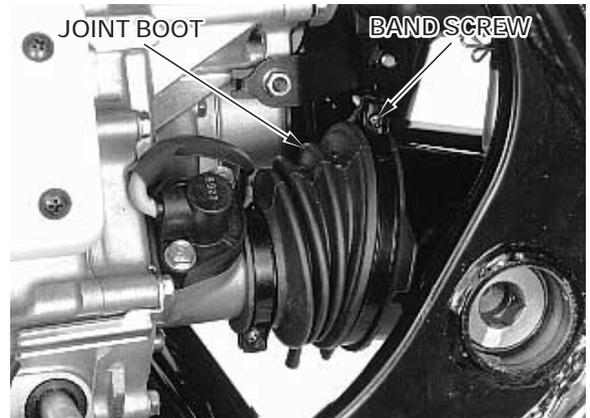
Refer to torque wrench reading information on [page 13-1](#) "Service Information".

TORQUE: Actual: 118 N·m (12.0 kgf·m , 87 lbf·ft)
Indicated: 107 N·m (10.9 kgf·m , 79 lbf·ft)

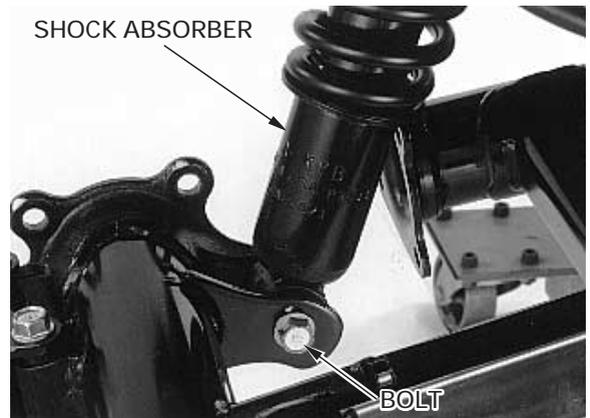


Install the joint boot over the swingarm securely.

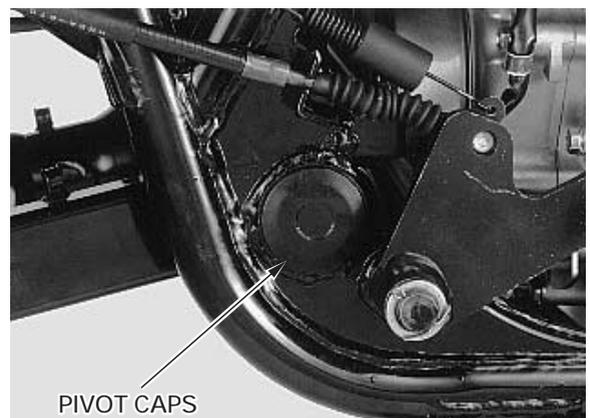
Position the screw of the boot band facing up as shown and tighten it.



Connect the swingarm onto the shock absorber and tighten the mounting bolt.

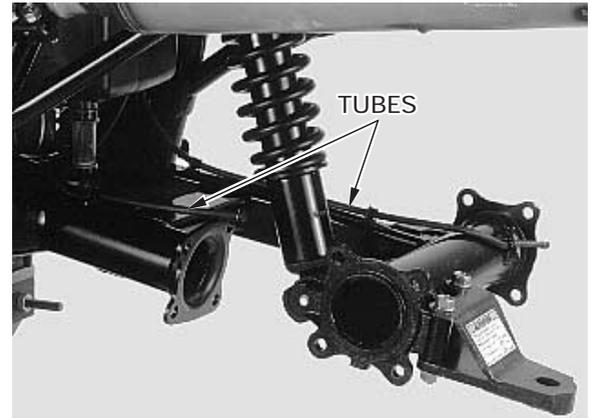


Install the left and right pivot caps securely.



Route the breather tubes properly ([page 1-22](#)) and secure them with the clamps.

Install the final drive and rear axle ([page 16-16](#)).



BRAKE SYSTEM

FM/FE model shown:

