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Brake Systems

WARNING

After servicing brake-related components, **ALWAYS** check and adjust brakes as necessary before operating the ATV.

Although the brake systems have been adjusted at the factory, the brakes should be checked for proper operation. The brakes must be maintained to be fully functional.

CHECKING FRONT WHEEL BRAKE

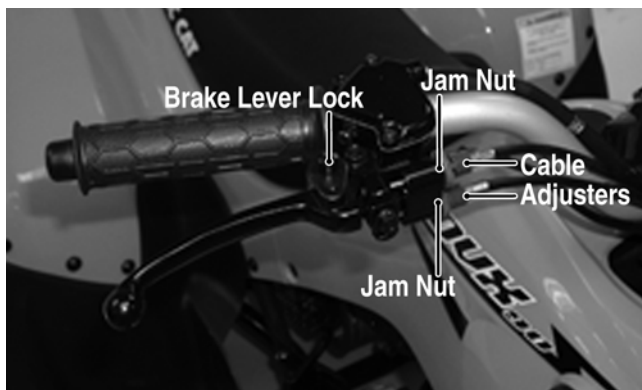
1. With the engine off, compress the right-hand (front) brake lever and attempt to move the ATV.
2. If the front wheels are locked, it is adjusted properly.
3. If the front wheels are not locked or if only one wheel locks, adjustment is necessary.

CHECKING REAR WHEEL BRAKE

1. With the engine off, compress the left-hand (rear) brake lever and set the brake lever lock; then attempt to move the ATV.
2. If the rear wheels are locked, it is serviceable.
3. If the rear wheels are not locked, bleed the brake system or replace the pads as necessary.

ADJUSTING FRONT WHEEL BRAKE

1. Raise the ATV enough to allow the front wheels to spin freely.
2. Loosen both jam nuts on the right-hand (front) brake lever. Turn both cable adjusters counterclockwise until both front wheels do not spin freely.



KM024B

3. Turn both cable adjusters in 1/4 turn increments (clockwise) until the wheels spin with a very slight amount of drag.
4. Lower ATV; then push it forward and compress the brake lever.
5. If the front wheels lock evenly, adjustment is correct.
6. If the front wheels do not lock evenly, additional adjustment is necessary.
7. Once proper adjustment is obtained, tighten the jam nuts.

MEASURING/REPLACING BRAKE SHOES/PADS

Removing Front Brake Shoes

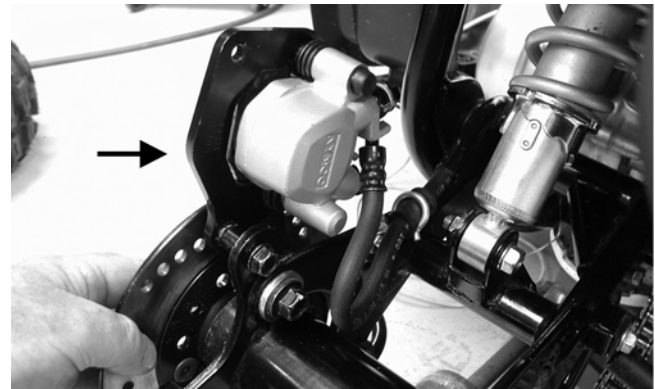
1. Support the ATV on a support stand.
2. Remove both front wheels and account for the cap screws.
3. Remove the cotter pins, castle nuts, and washers; then remove the brake drums/wheel hubs.
4. Loosen the brake shoe return spring; then remove the brake shoes.



MD2042

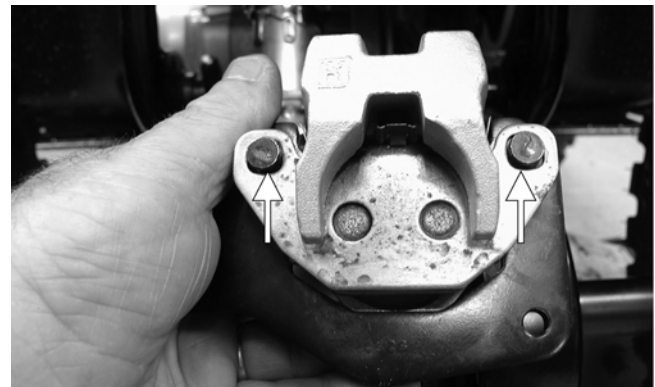
Removing Rear Brake Pads

1. Remove the two cap screws securing the brake caliper to the axle housing; then lift the caliper off the disc.



KM234A

2. Depress the holder pins and disengage and remove the outer pad; then remove the inner pad. Account for the spring clip.

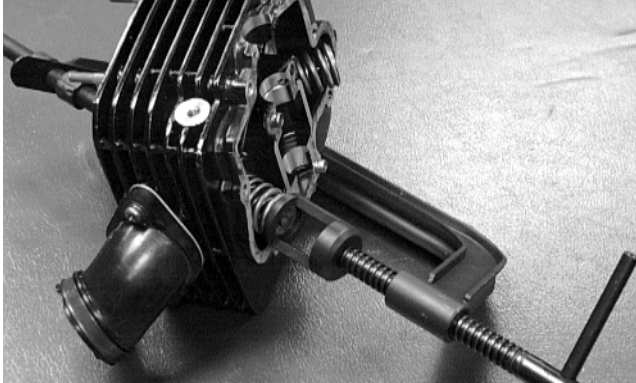


KM221A

REMOVING VALVES

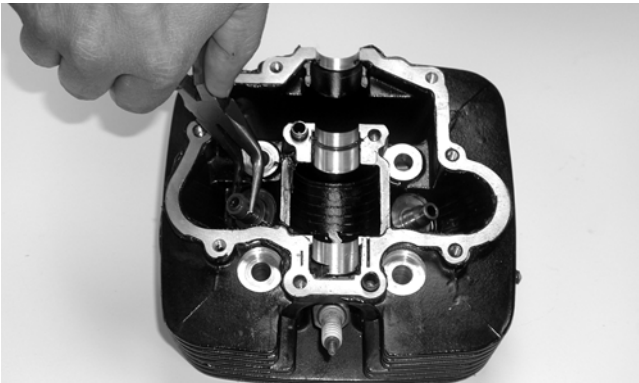
■NOTE: Keep all valves and valve components as a set. Note the original location of each valve set for use during installation. Return each valve set to its original location during installation.

1. Using a valve spring compressor, compress the valve springs and remove the valve cotters. Account for an upper spring retainer.

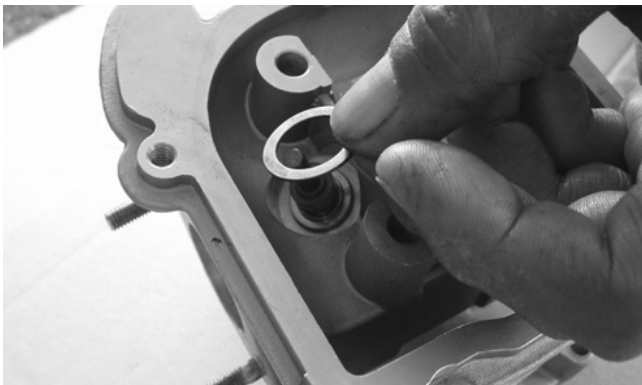


CC391D

2. Remove the valve seal and the lower remaining spring seat. Discard the valve seal.



CC928



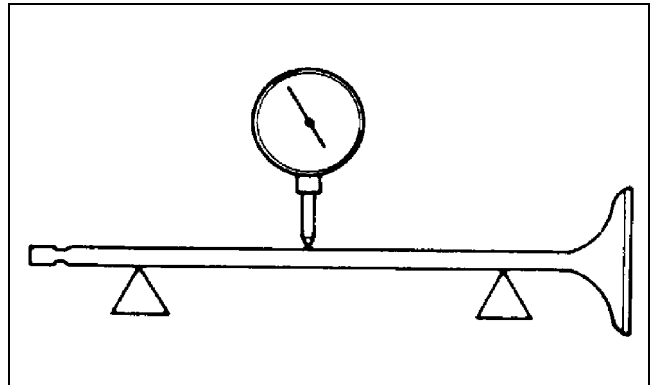
DSC2274

■NOTE: The valve seals must be replaced.

3. Remove the valve springs; then invert the cylinder head and remove the valves.

Measuring Valve Stem Runout

1. Support each valve stem end with the V blocks; then check the valve stem runout using a dial indicator.

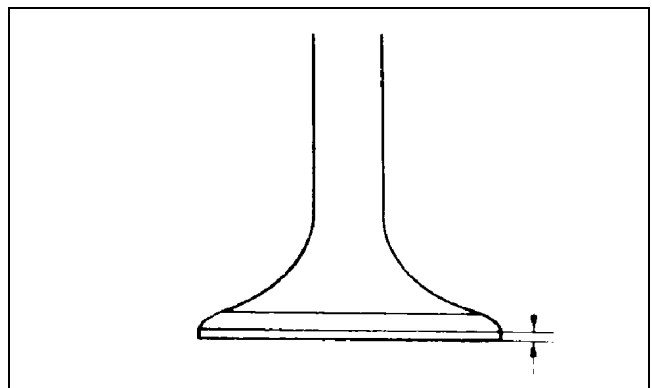


ATV-1082

2. Maximum runout must not exceed specifications.

Measuring Valve Face/Seat Width

1. Using a micrometer, measure the width of the valve face.

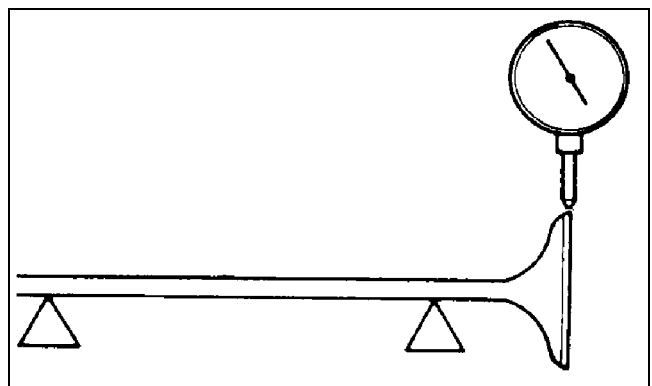


ATV-1004

2. Acceptable width must be at or above specifications.

Measuring Valve Face Radial Runout

1. Mount a dial indicator on the surface plate; then place the valve stem on a set of V blocks.
2. Position the dial indicator contact point on the outside edge of the valve face; then zero the indicator.



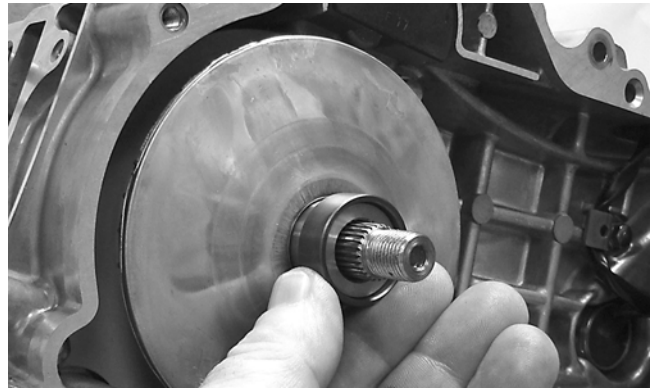
ATV1082A

3. Rotate the valve in the V blocks.
4. Maximum runout must not exceed specifications.



YT024B

4. Install the starter countershaft housing; then install the starter one-way clutch cover. Tighten the cap screws securely.



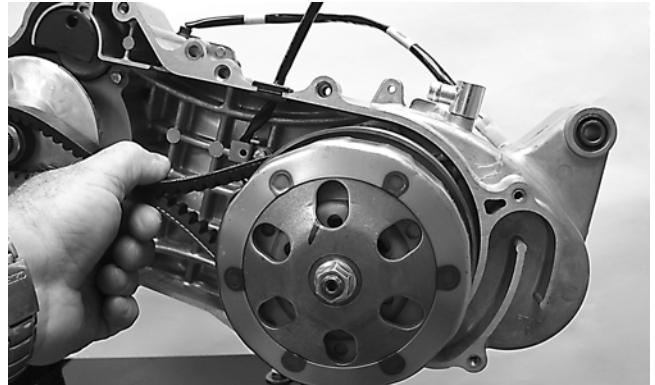
YT164

7. Place the V-belt over the driven pulley; then over the bushing/spacer. Pinch the belt in the middle to draw it down into the driven pulley approximately 1 inch.

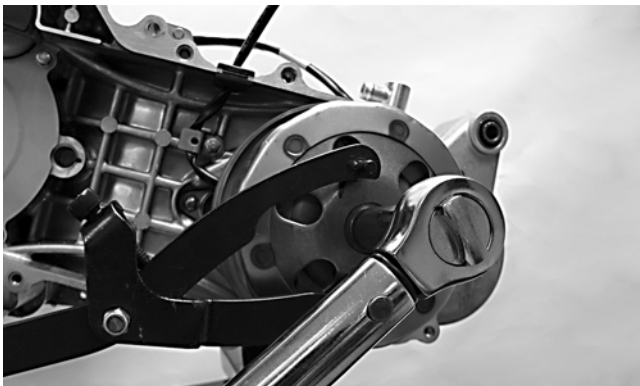


YT023A

5. Install the driven pulley/centrifugal clutch assembly onto the transmission input shaft; then install the centrifugal clutch housing and secure with a flange nut (coated with red Loctite #271). Tighten to 40 ft-lb.

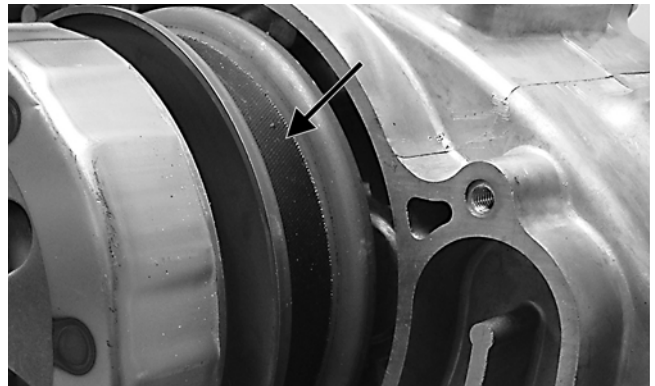


YT157



YT147

6. Install the movable drive face, bushing, and speed limiter spacer.



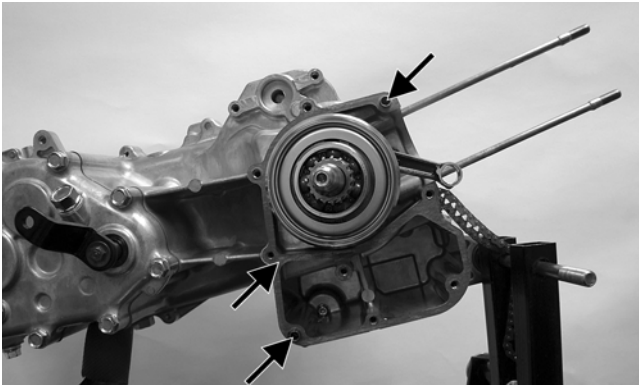
YT163A

8. Install the fixed drive face onto the crankshaft and make sure sufficient splines are protruding to allow the kick-start ratchet to slide onto the splines; then install the ratchet (B) and secure with the flange nut (A) coated with red Loctite #271. Tighten to 27.5 ft-lb.

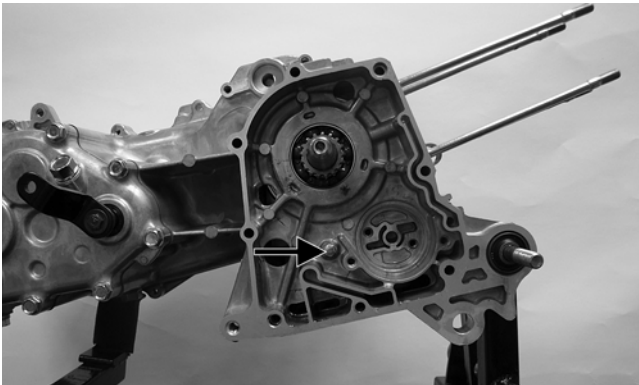


YT120

2. Install two alignment pins and a gasket; then install the right-side crankcase half. Secure with a cap screw (threads coated with red Loctite #271) and tighten to 8 ft-lb.

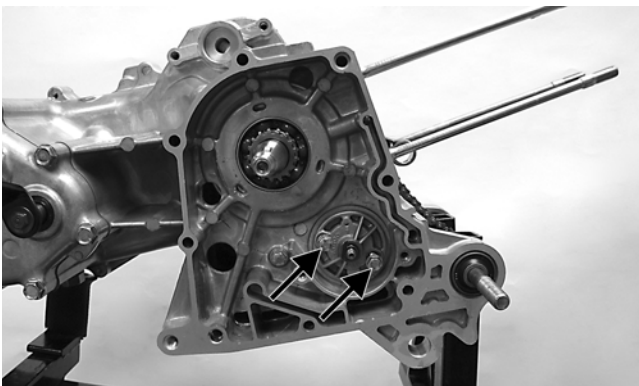


YT119A



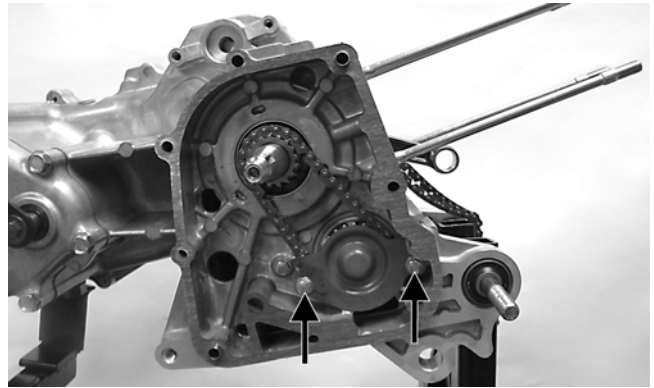
YT118A

3. Install the oil pump into the crankcase with the arrow and dot directed upward; then secure with two cap screws and tighten to 7 ft-lb.



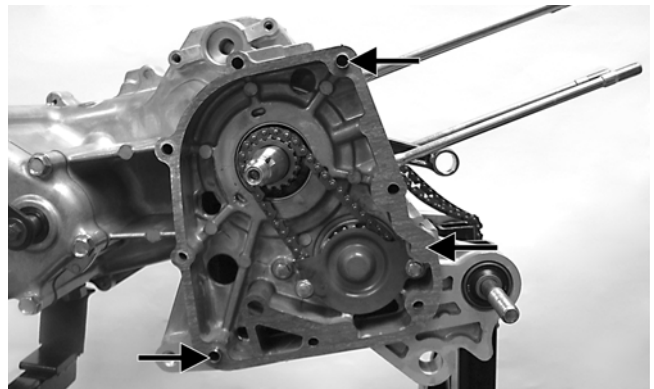
YT151A

4. Install the oil pump drive chain and driven gear and secure the gear to the pump shaft with the nut tightened to 7 ft-lb; then install the oil pump baffle and secure with the cap screws. Tighten securely.

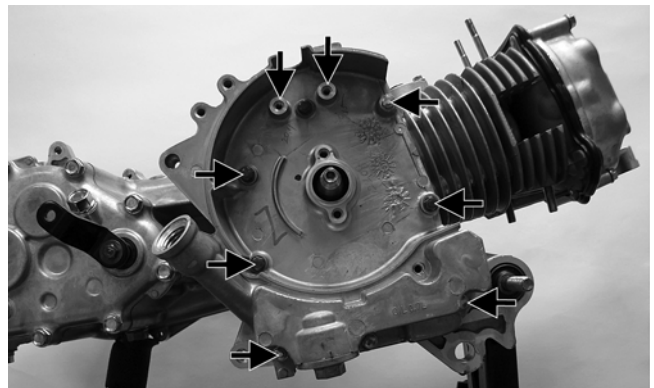


YT152A

5. Install the inner magneto housing using a new gasket making sure the alignment pins are correctly located; then secure with the five internal and three external cap screws.



YT152B



YT031A

6. Install the stator/trigger coil assembly and secure with four cap screws. Tighten securely.

- Turn the idle adjustment screw in or out until the engine idles at 1700 RPM.



YT015B

⚠ WARNING

Adjust the idle to the correct RPM. Make sure the engine is at normal operating temperature before adjusting the idle RPM.

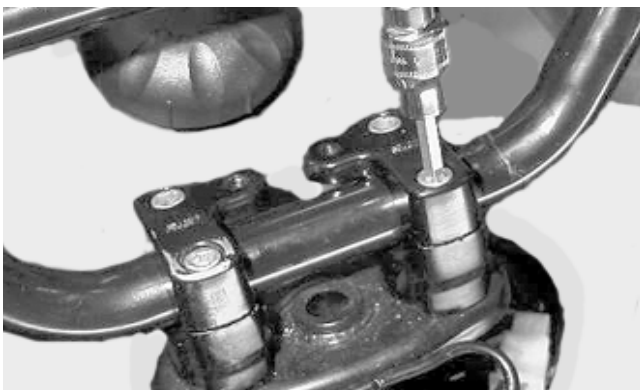
Gas Tank

⚠ WARNING

Whenever any maintenance or inspection is made on the fuel system during which there may be fuel leakage, there should be no welding, smoking, open flames, etc., in the area.

REMOVING

- Turn the gas tank valve to the OFF position.
- Remove the gas hose from the carburetor by removing the spring clamp; then funnel the gas hose into an appropriate container of sufficient size to catch all the gas from the gas tank.
- Turn the gas tank valve to the RES position and drain the gas from the gas tank.
- Remove the seat.
- Remove the top handlebar caps.

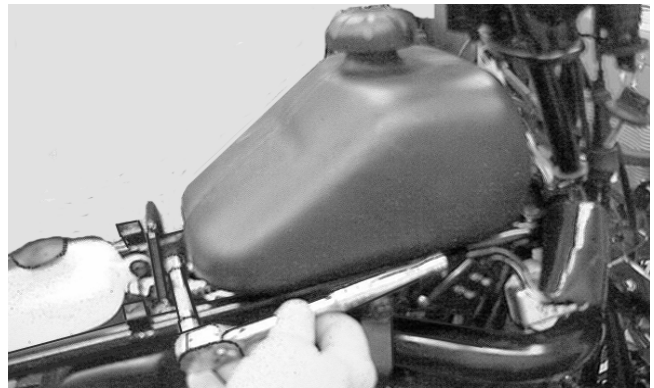


MD2139

- Carefully lay the handlebar assembly forward on the front fender panel.

■NOTE: To access the gas tank, it is necessary to move the front fender panel, which requires removing the handlebar from its clamp. However, the levers, controls, cables, and wires do not need to be disconnected. The front fender panel and handlebar assembly can be tilted forward far enough to gain access to the gas tank.

- Remove the four Phillips-head cap screws and six nuts securing the front fender panel. Account for eight washers.
- Remove the gas tank cap; then tilt the front fender panel and handlebar forward.
- Remove the two cap screws securing the gas tank; then lift the gas tank and secure it out of the way.



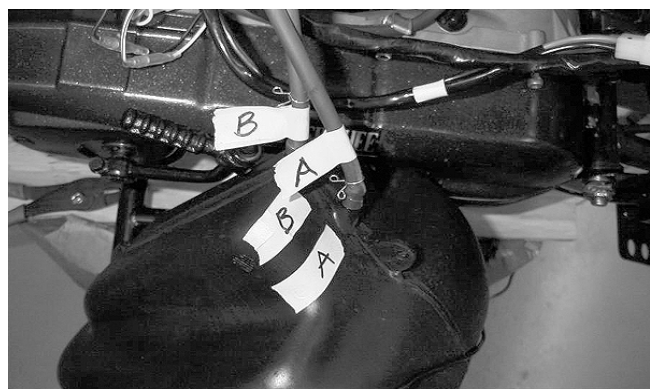
MD2393

- Remove the gas hoses from the gas tank valve noting where each one is attached.



MD1865

■NOTE: Mark the gas hoses for assembling purposes.



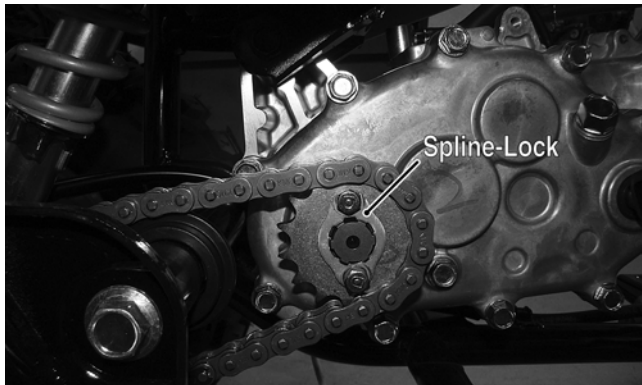
MD1848



MD1854

REMOVING FRONT DRIVE SPROCKET

1. With the chain installed and with the rear brake applied, remove the two cap screws securing the spline-lock to the drive sprocket.



YT009A

2. Loosen the drive chain (see Adjusting Drive Chain in this sub-section).
3. Remove the drive sprocket and chain; then remove the sprocket from the chain.

INSTALLING FRONT DRIVE SPROCKET

1. Place the drive sprocket into the drive chain; then slide onto the driveshaft.
2. Install the spline-lock and two cap screws.
3. Adjust the drive chain (see Adjusting Drive Chain in this sub-section).
4. With the rear brake lever lock applied, tighten the cap screws to 8 ft-lb.

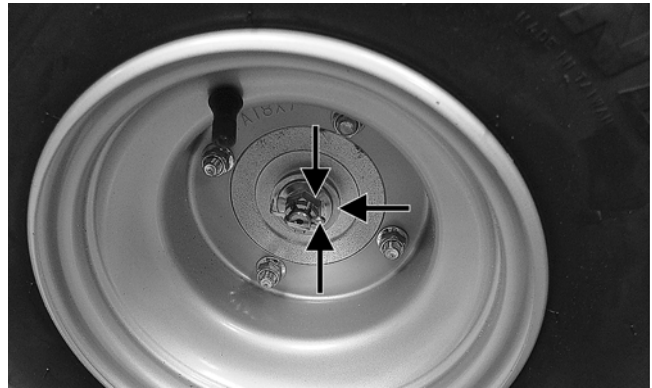
REMOVING REAR SPROCKET

1. Secure the ATV on a support stand to elevate the rear wheels.

⚠ WARNING

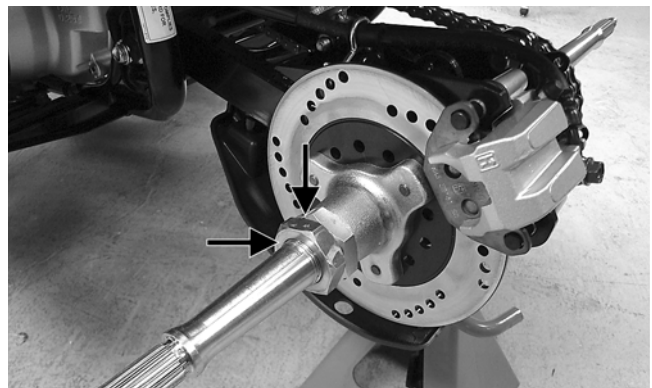
Make sure the ATV is solidly supported on the support stand to avoid injury.

2. Remove the cotter pins from the axle shaft and discard; then apply the rear brake and remove the castle nuts from the axle. Account for the flat washer.

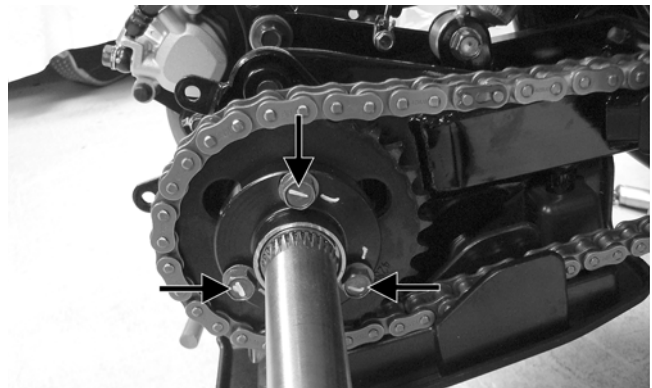


YT175A

3. Remove the left and right rear wheels.
4. Remove the two axle nuts securing the brake hub to the axle; then remove three cap screws securing the rear sprocket to the sprocket retainer.



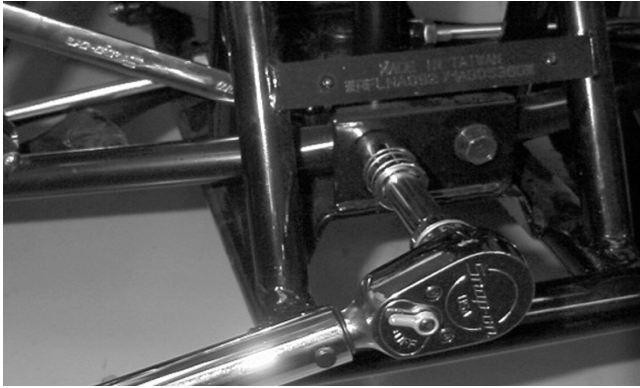
YT195A



YT197A

NOTE: It is not necessary to remove the drive chain in order to remove the rear sprocket.

5. Slide the axle shaft out of the housing from left to right leaving the brake disc and hub and rear sprocket in place; then lift the rear sprocket out of the chain.



MD2425

- Secure the shock absorber to the A-arm with the cap screw and self-locking nut. Tighten the nut to 29 ft-lb.

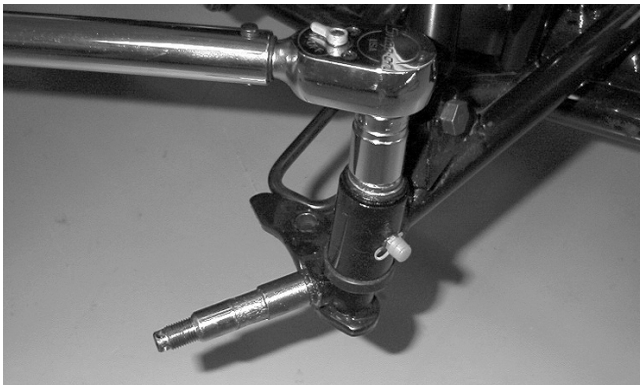
CAUTION

Do not tighten the nut beyond the 29 ft-lb specification or the shock eyelet or mount WILL be damaged.



MD2424

- Lubricate the steering knuckle assembly with grease; then install it into the A-arm and secure with the flanged castle nut. Tighten the nut to 29 ft-lb; then install a new cotter pin and the rubber spindle pin boot.



MD2427

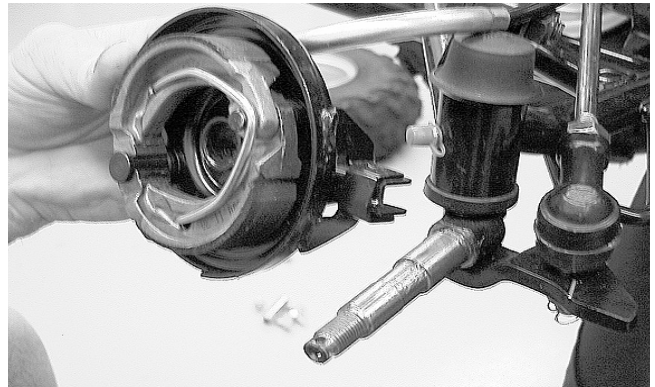
- Install the tie rod end into the steering knuckle and secure it with the self-locking nut. Tighten the nut to 25 ft-lb; then install a new cotter pin.



MD2426

- Apply a light coat of grease to spindle shaft; then install the brake backing plate assembly onto the shaft.

■NOTE: When installing the brake backing plate assembly, be sure to align the notch in the backing plate with the tab on the steering knuckle.



MD2381

- Place the hub assembly onto the spindle; then install the washer and castle nut. Tighten the castle nut to 45 ft-lb; then install a new cotter pin. Install the wheel and tighten the cap screws to 30 ft-lb.

- Remove the ATV from the support stand.

⚠ WARNING

After removing and installing brake-related components, ALWAYS check and adjust brakes as necessary before operating the ATV.

Swing Arm

REMOVING

- Secure the ATV on a support stand to elevate the rear wheels; then remove the wheels.

⚠ WARNING

Make sure the ATV is solidly supported on the support stand to avoid injury.

- Remove two cap screws securing the brake caliper to the axle housing.

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