

# Instructions

ADVENTURE WORKS - ERP SAMPLE APP

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## ABOUT YOUR ADVENTURE WORKS CYCLES BICYCLE

Congratulations! You've purchased a high quality bicycle that will give you years of riding enjoyment. This owner's manual is made for several different bicycles. Some of the illustrations may not look exactly like the parts of the bicycle, but the instructions are correct. If the bicycle has any parts that are not described in this manual, look for separate Special Instructions that are supplied with the bicycle.

NOTE: All of the directions (right, left, front, rear, etc.) in this manual are as seen by the rider while seated on the bicycle.

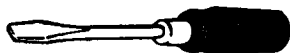
Attach and use only Adventure Works Cycles brand accessories and replacement parts on the bicycle. You'll need these tools when servicing your Adventure Works Cycles bicycle.

Small Adjustable Wrench



(Jaws must open at least 9/16 inch.)

Flat-blade Screwdriver

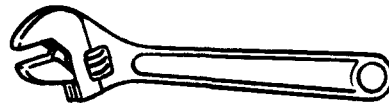


Slip-Joint Pliers

(Needed on some models.)

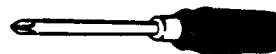


Large Adjustable Wrench

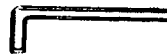


(Jaws must open at least 1 1/4 inch.)

Phillips Screwdriver



Metric Allen Wrenches



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## REPAIR AND SERVICE OF ADVENTURE WORKS CYCLES BICYCLES

We at Adventure Works Cycles take your safety very seriously. We guarantee all of our bicycles leave the factory ready for years of safe and enjoyable use. However, it is important that you maintain your bicycle and keep it in good repair.

The following repair and service guidelines are strongly recommended:

- Inspect the bicycle frequently. Failure to inspect the bicycle and to make repairs or adjustments, as necessary, can result in injury to the rider or to others.
- Make sure all parts are correctly assembled and adjusted as written in the bicycle manual and any Special Instructions included with your bicycle.
- Immediately replace any damaged, missing, or badly worn parts.

- Make sure all fasteners are correctly tightened. Parts that are not tight enough can be lost or operate poorly. Over tightened parts can be damaged. Make sure any replacement fasteners are the correct size and type.
- If your frame is aluminum, inspect the bicycle frame carefully and frequently. Aluminum frames can develop very small cracks due to stress, severe shocks, etc. If you see any small cracks, stop riding the bicycle. Have the frame inspected by a qualified professional at a bicycle service shop before riding the bicycle again.
- If your bicycle has a suspension fork, inspect the top of the fork around the welded joints carefully and frequently for very small cracks. If you see any small cracks, stop riding the bicycle. Have the frame inspected by a qualified professional at a bicycle service shop before riding the bicycle again.

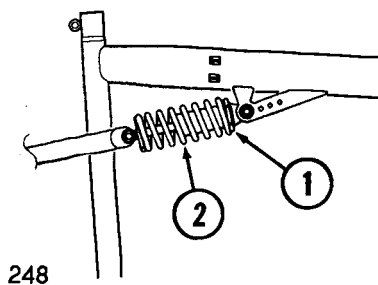
NOTE: Have a bicycle service shop make any repairs or adjustments for which you do not have the correct tools or if the instructions in the bicycle manual are not sufficient for you.

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## SUSPENSION FRAME (ON SOME MODELS)

### Adjustments

If the bicycle has an adjustable shock-absorbing suspension, you can change the suspension, as you prefer, for a softer or a firmer ride.



To change the suspension:

For a softer ride, turn the adjusting nut [ clockwise so the suspension spring [ is compressed less.

For a firmer ride, turn the adjusting nut counter 248 clockwise so the suspension spring is compressed more.

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## CRANK ARM AND TIRE MAINTENANCE

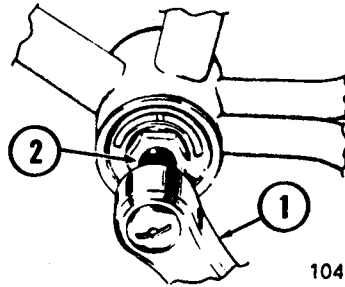
### CRANK ARM MAINTENANCE

Maintaining crank arm tightness is an important part of servicing your Adventure Works Cycle bicycle. These instructions apply to Adventure Works Cycles products 618, 619 and 620).

Both crank arms were tightened to the spindle at the Adventure Works Cycles factory. After riding the bicycle the first few times (or after the first 20 miles), make sure the crank arms are tight. If either crank

arm has loosened during this break-in period, have it tightened by a bicycle service shop, because special tools are necessary.

**CAUTION:** Frequently check the tightness of the crank arms. Failure to maintain crank arm tightness may cause damage to the crank arm. Always have a professional bicycle service shop tighten the crank arms.



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## TIRE MAINTENANCE

All tires lose air slowly over time so it is important to check the tire inflation pressure before every ride. For extended storage, keep the weight of the bicycle off the tires.

**WARNING:** Do not ride or sit on the bicycle if either inner tube is under inflated. This can damage the tire and inner tube. Do not over inflate the tires. This can cause them to burst.

Use a hand or a foot pump to inflate the inner tubes. Service station meter-regulated air hoses are also acceptable. The correct inflation pressure is shown on the tire sidewall. If two inflation pressures are on the tire sidewall, use the higher pressure for on-road riding and the lower pressure for off-road riding. The lower pressure will provide better tire traction and a more comfortable ride.

Before adding air to any tire, make sure the edge of the tire (the bead) is the same distance from the rim, all around the rim, on both sides of the tire. If the tire does not appear to be seated correctly, release air from the inner tube until you can push the bead of the tire into the rim where necessary. Add air slowly and stop frequently to check the tire seating and the pressure, until you reach the correct inflation pressure.

Replace worn or defective tires and inner tubes immediately.

## LUBRICATION MAINTENANCE

Lubricating your Adventure Works Cycles bicycle is an important part of your standard bicycle maintenance plan. These instructions provide guidelines for lubricating the required components of your bicycle to ensure a smooth and safe ride.

**WARNING:** Do not over lubricate parts. If oil gets on the wheel rims or the brake shoes, it will reduce brake performance and a longer distance to stop the bicycle will be necessary. Injury to the rider or to others can occur.

Using a light machine oil (20W) and the following guidelines, lubricate the bicycle.

Part to be lubricated	Frequency	Method
Brake and Shift Cables	Every six months	Put four drops of oil into both ends of each cable. Allow the Shift Cables oil to soak back along the cable wire.
Brake Levers	Every six months	Put one drop of oil on the pivot point of each brake lever.
Caliper Brakes	Every six months	Put one drop of oil on the pivot point of each caliper brake.
Cantilever	Every six months	Put one drop of oil on the pivot point of each cantilever.
Chain	Every three months	Put one drop of oil on each roller of the chain. Wipe all excess oil off the chain.
Deraileurs	Every six months	Put one drop of oil on each pivot point of the deraileur.
Pedals	Every three months	Put four drops of oil where the axles go into the pedals.
Shift Levers	Never	
Suspension Fork	Every six months	Lift up the rubber fork boot and dab a small amount of grease on the fork leg just above the bushing.

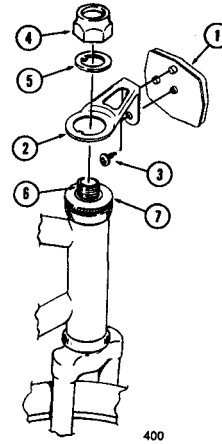
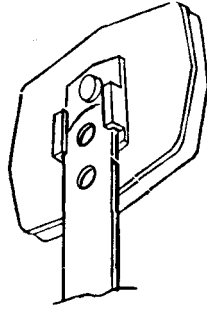
**Important!** The chain can throw excess oil onto the wheel rim. Wipe excess oil off the chain. Keep all oil off the surfaces of the pedals where your feet rest. Using soap and hot water, wash all oil off the wheel rims, the brake shoes, the pedals, and the tires. Rinse with clean water and dry completely before you ride the bicycle.

## FRONT REFLECTOR BRACKET AND REFLECTOR ASSEMBLY

This section covers the assembly of the front reflector to the front reflector bracket. Determine which style you have before beginning assembly.

Snap In Style

Screw In Style



## REFLECTOR ASSEMBLY

Assemble the reflector to the front reflector bracket. Instructions apply to these models:

- Touring 1000
- Touring 2000
- Touring 3000

**WARNING:** Install the reflector as shown or it will not operate correctly.

### SNAP IN STYLE

1. Push the reflector onto the reflector bracket.
2. Make sure the stud on the reflector goes into the hole of the bracket with a snapping sound.

### SCREW IN STYLE

1. Put the reflector onto the reflector bracket.
2. Make sure the studs on the back of the reflector go into the holes of the reflector bracket.
3. Put the screw through the bracket and into the reflector.
4. Tighten screw.

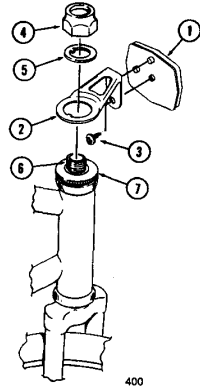
## FRONT REFLECTOR BRACKET INSTALLATION

This section covers several different placements of the front reflector bracket. Make sure the front reflector is vertical (perpendicular to the ground).

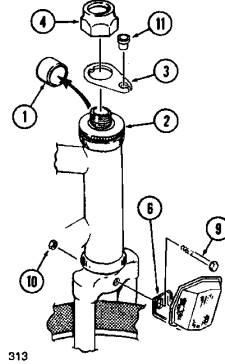
The front reflector bracket will mount on the fork or handlebar. If the reflector is not installed, refer to the 'Front Reflector Bracket and Clear Reflector Assembly' section.

Determine which type of reflector bracket you have and its mounting location and then follow the instructions for that style.

Top of Fork

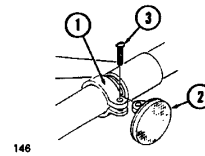
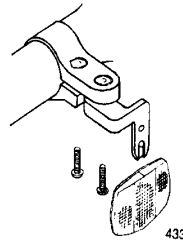


Bottom of Fork



Handlebar Mount

Handlebar Mount



## TOP OF FORK

### 1. Attach the hardware to the fork:

1. Remove and discard plastic cap (if installed) on fork.
2. Tighten bearing cone by hand to make sure the bearings are tight.
3. Install reflector bracket and locknut.
4. Tighten the locknut.

## BOTTOM OF FORK

### 1. Attach the hardware to the fork:

- Remove and discard plastic cap (if installed) on fork.
- Tighten bearing cone by hand to make sure the bearings are tight.
- Install the keyed washer and locknut.
- Tighten the locknut.

### 2. Assemble the front reflector bracket and reflector to the fork:

3. Attach the reflector bracket to the front of the fork with a bolt and locknut.
4. Adjust the angle of the reflector bracket as needed.

## INSTALLING PEDALS

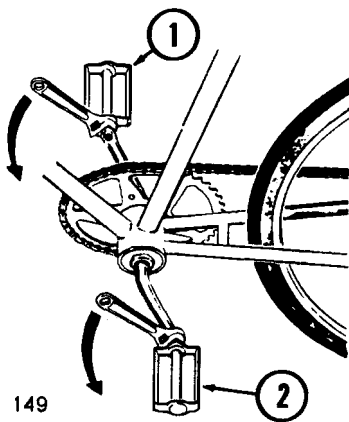


Attaching replacement pedals to your Adventure Works Cycles bicycle is a simple procedure. You will need a standard wrench to remove the old pedals and install the replacement pedals.

The right pedal is marked "R" and the left pedal is marked "L". The right pedal has right-hand threads. Tighten it in a clockwise direction. The left pedal has left-hand threads. Tighten it in a counterclockwise direction.

1. Remove the old pedals from the bicycle. For the right pedal, loosen in a counter clockwise direction. For the left pedal, loosen in a clockwise direction.
2. Turn the right pedal (marked "R") into the right side of the crank and the left pedal into the left side of the crank.
3. Tighten the pedal. Make sure the threads of each pedal are fully into the crank for tightening.

The recommended torque (tightness) for each pedal is 23ft.-lbs.

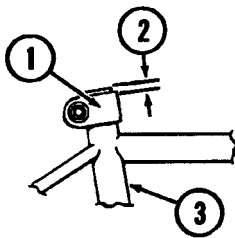


## SEAT ASSEMBLY

These seat assembly instructions apply to these Adventure Works Cycles models:

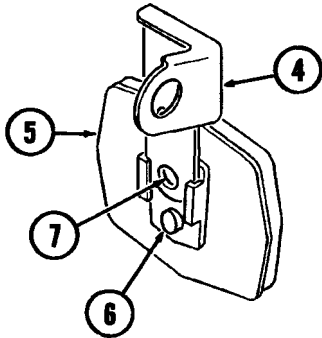
Mountain 100 through Mountain 500

1. Push the post clamp down so you can see 1/16 inch of the seat tube above the post clamp. This may already be done or the clamp may be welded and can not be moved.



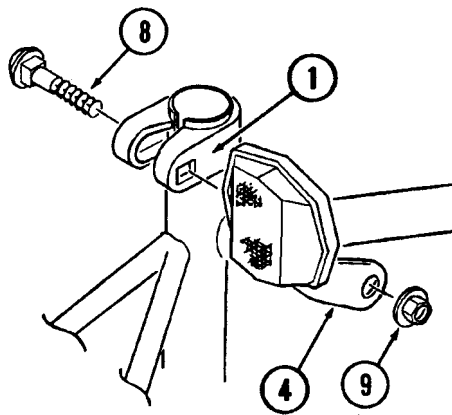
2. Assemble the reflector to the rear reflector bracket:

- Push the rear reflector bracket into the back of the red reflector.
- Make sure the stud of the red reflector goes into the hole of the rear reflector bracket.



3. Assemble the rear reflector bracket to the post clamp with hardware:

- Install a bolt and nut or a quick release lever as shown below.
- Tighten the bolt and nut or quick release lever..



## TRAINING WHEELS

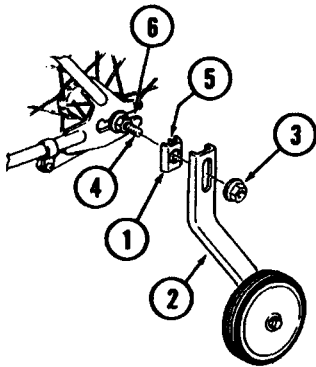
Training wheels can be applied to these Adventure Works Cycles models:

- Road-150 (size 44 and 48)
- Road-250 (size 44 only)

1. Attach the legs to the bicycle frame:

- Put the alignment insert, a washer and a nut on each end of the rear wheel axle.
- Make sure the tab of the alignment insert is to the rear of the axle and in the slot of the frame.

- Make sure both training wheels are the same distance from the ground.
- Tighten the nuts securely.



#### Operation

A WARNING: Before each ride, make sure both nuts are tight. Also make sure both training wheels are the same distance from the ground.

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#### REMOVAL

To remove the training wheels, remove the nut, washer, and alignment insert.