

# **HUFFY BICYCLES**

## **Service Instructions**

### **for one-Piece Crank Bearings**

#### **Maintenance Schedule**

- Inspect the crank bearings frequently.
- Adjust the crank bearings when needed.
- Overhaul the crank bearings at least once a year.
- If you frequently ride in dusty or rainy conditions, overhaul the crank bearings more often than once a year.

#### **Testing the Crank Bearings**

The crank should turn smoothly and easily:

- If not, the crank bearings are adjusted too tightly
- Adjust the crank bearings.

The end of the crank arms should not move side-to-side:

- If the end of the crank arms moves side-to-side, the crank bearings are adjusted too loosely
- Adjust the crank bearings.

#### **Adjusting One-Piece Crank Bearings**

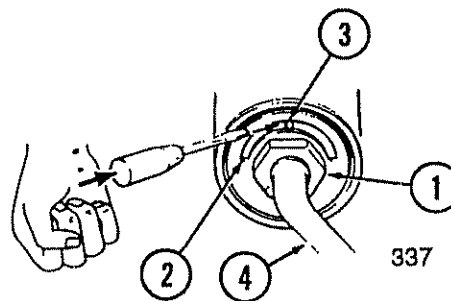
Tools necessary:

- a wrench to fit the locknut (1 1/8 inch)
- a flat-blade screwdriver

Adjust the crank bearings:

**CAUTION** The locknut and the adjusting cone have left-hand threads. Turn them counter-clockwise to tighten and turn them clockwise to loosen.

- Loosen the locknut [1]
- Put the screwdriver through the slot [2] of the keyed washer and in the notch [3] of the adjusting cone
- Lightly hit the screwdriver to turn the adjusting cone
- Turn the adjusting cone counter-clockwise to tighten the bearings and clockwise to loosen them
- Tighten the locknut
- Do the steps in the "Testing the Crank Bearings" section
- If the crank [4] is hard to turn, is loose, or turns roughly, overhaul the bearings.



## Overhauling One-Piece Crank Bearings

Tools necessary:

- a wrench to fit the locknut (1 1/8 inch)
- a wrench to fit the pedals (13 mm or 1/2 inch)
- a hammer
- a punch (or an old screwdriver or a piece of pipe about 12 inches long)
- a metal pan
- an old toothbrush
- some rags
- kerosene (or other parts cleaning solvent)
- general-purpose automotive grease

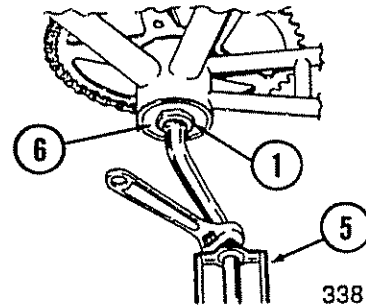
1. Remove the crank bearings from the crank housing:

**CAUTION** The left pedal, the locknut, and the adjusting cone have left-hand threads. Turn them counter-clockwise to tighten and clockwise to loosen.

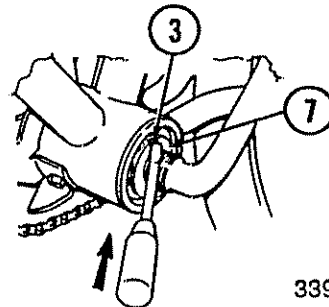
- If your bicycle has a chainguard, remove it from the frame
- Remove the left pedal [5] from the crank

- Remove the locknut [6] and the keyed washer [7] from the crank
- Put a screwdriver in the notch of the adjusting cone [8] and lightly hit the screwdriver to loosen the adjusting nut

**CAUTION** Look at the bearing. Make sure you know which direction the balls of the bearing point.



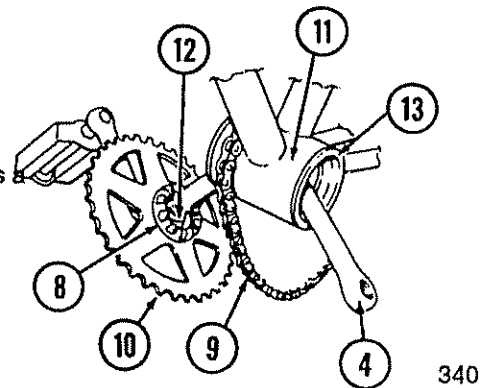
- Remove the adjusting cone and the bearing [9] from the crank
- Lift the chain [10] off the front sprocket [11]
- Turn the crank as necessary and pull it out of the crank housing [12]
- Remove the other bearing from the crank or out of the crank housing.



2. Clean the bearings, the bearing cups, and the cones:

**WARNING** Read and obey all instructions included with the solvent. Keep all solvents away from heat, sparks, and open flames because most are flammable. Never use gasoline as a solvent. Never blow the solvent off the parts in areas where the solvent mist can be ignited by a spark or open flame. Work only in an area that has good flow of air. Do not breathe the solvent fumes.

- Soak the bearings and the adjusting cone in solvent for at least ten minutes
- Using the toothbrush and some solvent, clean the bearings and the adjusting cone
- Rinse the bearings and the adjusting cone with some clean solvent
- Wipe the excess solvent from the bearings and the adjusting cone and allow them to dry
- Using a rag and some solvent, wipe all grease and dirt from both of the bearing cups and the stationary cone [13].



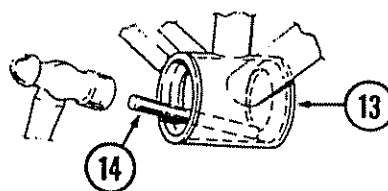
3. Inspect all of the bearing parts:

*NOTE: If any of the bearing parts are damaged, you should replace all of the bearing parts. They are usually sold as a set. Make sure the new parts match the old parts.*

- Carefully inspect the bearings
  - Replace the bearing if any of the balls are missing or have flat spots on them
  - Make sure the new bearing is exactly the same style and size as the original
- Carefully inspect the bearing cups [14], the adjusting cone, and the stationary cone
  - Replace the part if you see any dents or pits where the balls touch the part
  - Replace the part if you see any cracks in it.

4. To replace damaged bearing cups:

- Remove the damaged bearing cup
  - Hold a punch (the old screwdriver or piece of pipe) against the small end of the bearing cup
  - Lightly hit the punch [15] around the small end of the bearing cup until it comes out of the crank housing



341

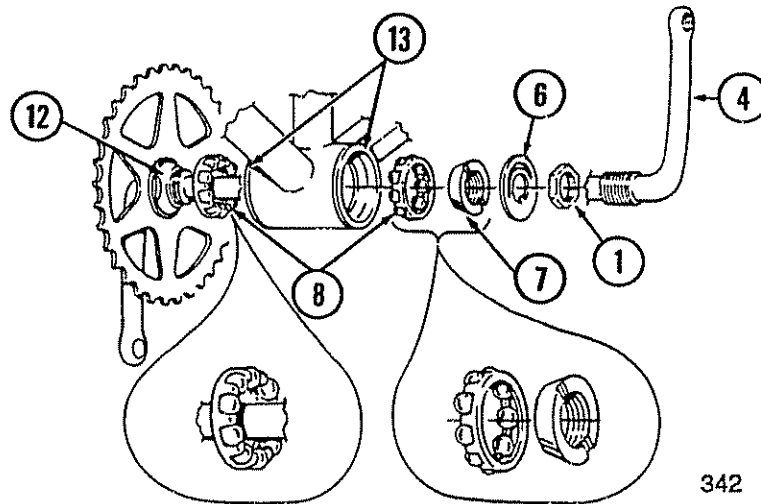
- Install the new bearing cup
  - Press the bearing cup into the crank housing
  - Hold a piece of wood against the large end of the bearing cup
  - Hit the wood until the bearing cup is fully into the crank housing.

5. Grease the bearing parts:

- Put grease on the inside of both bearing cones, on the tapered part of both cones, and on the both bearings
- Make sure you put grease around each ball of the bearings.

6. Assemble all of the parts:

**CAUTION** The adjusting cone, the locknut, and the left pedal have left-hand threads. Turn them counter-clockwise to tighten and clockwise to loosen.



- Make sure the stationary cone is tight against the front sprocket
- Put one bearing down onto the stationary cone
- Make sure the balls point away from the stationary cone
- Turn the crank as necessary and put it through the crank housing
- Put the chain on the front sprocket
- Put the other bearing over the crank and down into the bearing cup
- Make sure the balls point toward the bearing cup
- Carefully screw the adjusting cone onto the crank
- Put the keyed washer on the crank
- Install the locknut, but do not tighten it
- Do the steps under "Adjusting the Crank Bearings"
- If the bicycle has a chainguard, install in the original location
- Assemble the left pedal to the crank
- The recommended torque for pedal tightness is 23 ft.lbs.