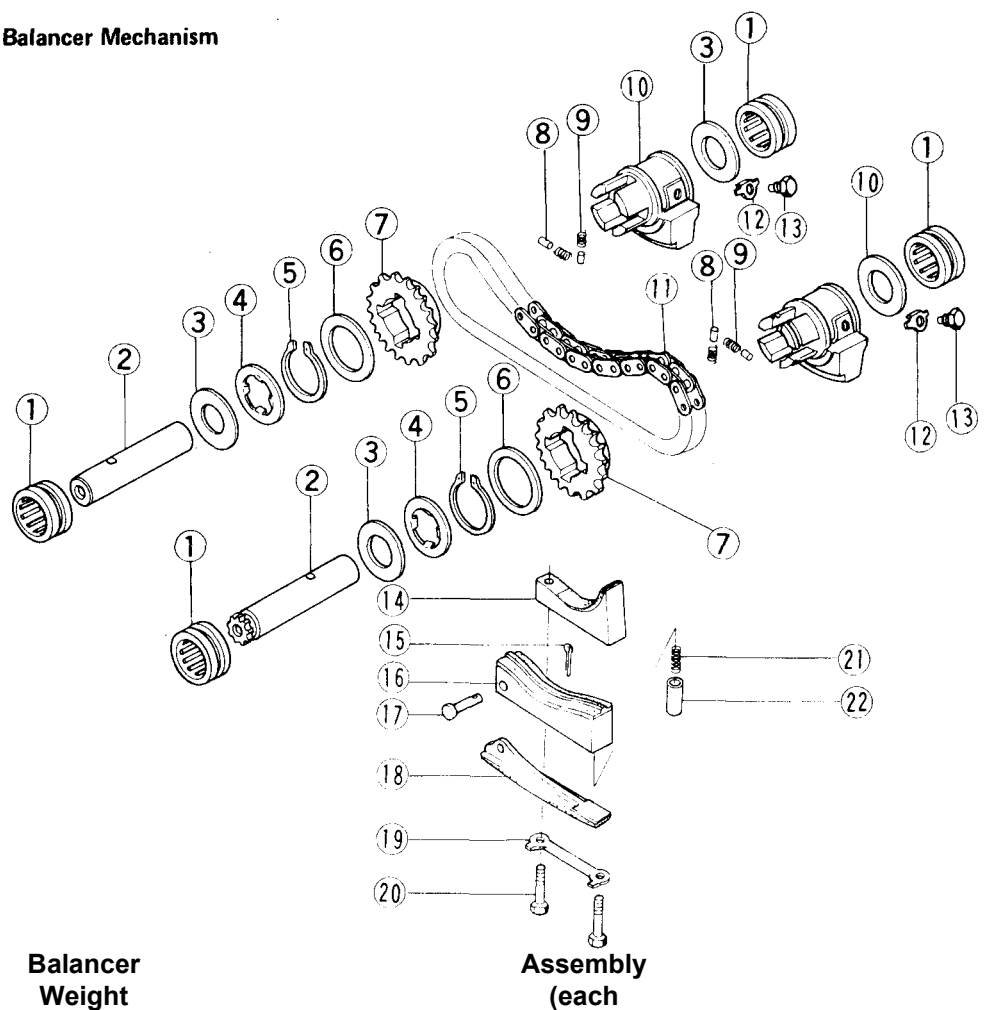


DISASSEMBLY 77

1. Needle Bearing
2. Balancer Shaft
3. Washer
4. Splined Washer
5. Circlip
6. Washer
7. Sprocket
8. Pin
9. Spring
10. Balancer Weight
11. Balancer Chain
12. Lock Washer
- 13. Bolt**
14. Chain Guide
15. Cotter Pin
16. Tensioner Body
17. Pin
18. Chain Guide
19. Lock Washer
20. Bolt
21. Spring
22. Tensioner Pin

Balancer Mechanism



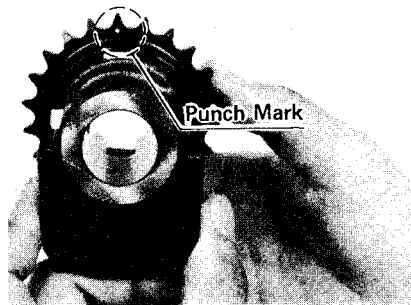
**Balancer
Weight**

**Assembly
(each)**

**balancer
unit):**

- With the springs and pins (4 ea) all in place in the inner circumference of the balancer weight, install the sprocket. The punch mark on the sprocket must face in (balancer weight side), with the sprocket positioned as depicted in Fig. 274. Only one of the four positions is correct, and that is with the punch mark opposite the weight.

(274)



- Put on the washer and circlip. Use a new circlip if it is deformed or otherwise damaged during removal.
- Move each spring to the furthest point outward in its space so that the springs will not hinder insertion of the balancer shaft through the weight.

**Balancer Chain Tensioner
Disassembly:**

- Remove the cotter pin 15, pull out the pin 17, and remove the chain guide 18.
- Pull out the tensioner pin 22, spring 21.

**Balancer Chain Tensioner
Assembly Note:**

- Insert a new cotter pin through the pin after assembling the chain tensioner assembly, and spread out its ends.

**CRANKSHAFT (Including
connecting rods),
CAMSHAFT CHAIN, AND
PRIMARY CHAIN**

Removal:

- Remove the engine (Pg. 23).
- Set the engine on a clean surface or, preferably, into a disassembly apparatus with some means of holding the engine steady while parts are being removed.

NOTE: If the engine is to be set onto the Kawasaki engine disassembly apparatus, the one of the upper crankcase half bolts (3) shown in Fig. 208 must be removed before positioning the engine.

- Remove the camshafts as explained in camshaft removal (Pg. 37).

- Remove the cylinder block (Pg. 43).
- Remove the pistons (Pg. 44).
- Remove the transmission (Pg. 60).
- Lift off the crankshaft with the camshaft chain and primary chain.