

# Drive Chain

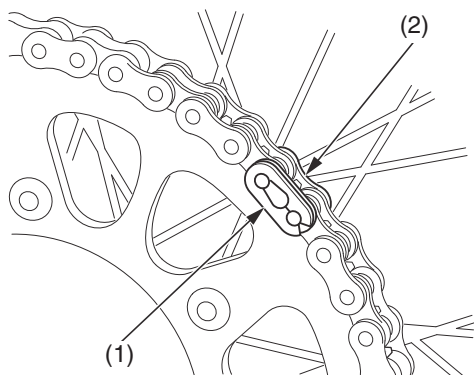
## Removal, Cleaning & Replacement

For maximum service life, the drive chain should be cleaned, lubricated, and adjusted before each outing.

1. Remove the master link retaining clip (1) with pliers.

Do not bend or twist the clip.

2. Remove the master link (2). Remove the drive chain.



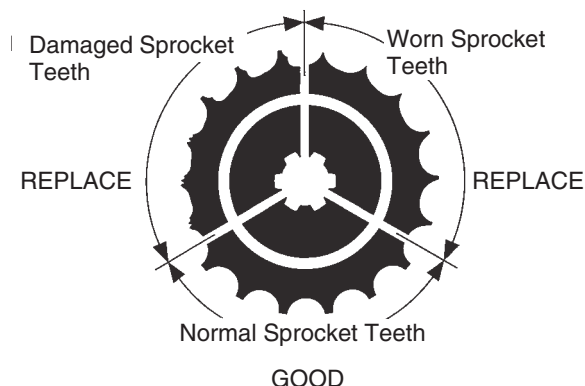
- (1) master link retaining clip  
(2) master link

3. Clean the drive chain in high flash-point solvent and allow it to dry.
4. Inspect the drive chain for possible wear or damage. Replace the drive chain if it has damaged rollers, loose fitting links, or otherwise appears unserviceable.

Chain:

Size/link: D.I.D 520DMA4/116RB  
RK520TXZ/116RJ

5. Inspect the sprocket teeth for wear or damage. We recommend replacing the sprocket whenever a new chain is installed. Both chain and sprockets must be in good condition, or the new replacement chain or sprocket (s) will wear rapidly. Excessively worn sprocket teeth have a hooked, worn appearance. Replace any sprocket which is damaged or excessively worn.



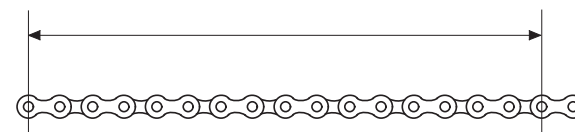
### NOTICE

*Use of a new chain with worn sprockets will cause rapid chain wear.*

6. Install the chain.
7. Measure a section of the drive chain to determine whether the chain is worn beyond its service limit. Put the transmission in gear, and then turn the rear wheel forward until the lower section of the chain is pulled taut. With the chain held taut and any kinked joints straightened, measure the distance between a span of 17 pins, from pin center to pin center. If the measurement exceeds the service limit, replace the chain. After the chain is measured, shift the transmission into neutral again before proceeding with inspection and service.

Service limit: 10.20 in (259.0 mm)

MEASURE A SPAN OF 17 PINS (16 PITCHES)



8. Lubricate the drive chain (page 119).
9. Pass the chain over the sprockets and join the ends of the chain with the master link. For ease of assembly, hold the chain ends against adjacent driven sprocket teeth while inserting the master link. Install the master link retaining clip so that the closed end of the clip will face the direction of forward wheel rotation.
10. Recheck chain slack and adjust as necessary.

## More About Drive Chain

- The master link is the most critical element of drive chain security. Master links are reusable, as long as they remain in excellent condition. We recommend installing a new master link retaining clip when the drive chain is reassembled.
- You may find it easier to install a new chain by connecting it to the old chain with a master link and pulling the old chain to position the new chain on the sprockets.