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**Kawasaki KLX110 / Suzuki DR-Z110
Takegawa Hyper Camshaft**



Parts List

QTY.	DESCRIPTION	PART NUMBER
1	TAKEGAWA HYPER CAMSHAFT	022-1-08-045

IMPORTANT - PLEASE READ CAREFULLY

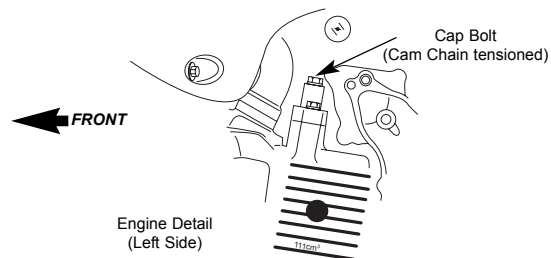
We recommend that this performance engine kit be installed by a qualified motorcycle technician. If you have any doubts as to your ability to install this performance engine kit, please consult with your local motorcycle dealer. Read all instructions first before starting installation. Make sure the motorcycle and exhaust system are completely cool before starting the installation. Also, make sure the bike is secure on the sidestand or ideally a rear service stand during installation. Be sure to save all stock components for possible use later.

Warranty

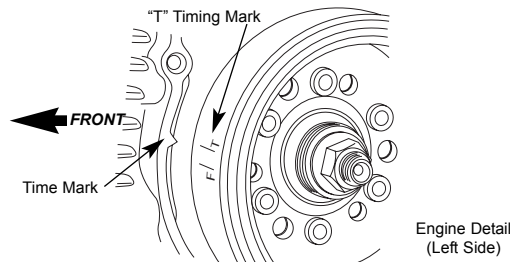
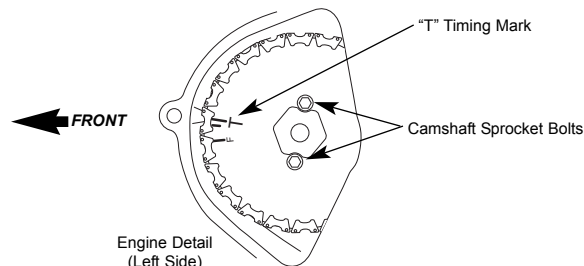
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Installation Instructions

1. Make sure the bike is completely cool before starting the installation. Make sure the bike is secure on the sidestand or ideally a rear service stand.
2. Drain engine oil.
3. Remove seat, fuel tank and shift lever.
4. Remove left side engine cover and camshaft sprocket cover from cylinder head.
5. Remove cap bolt on cam chain tensioned.



6. Turn the crankshaft counterclockwise until the "T" on the camshaft sprocket aligns with the projection on the head (approx. at 9 o'clock position) and the "T" on the flywheel aligns with the projection on the engine case (approx. at 9 o'clock position).



7. Loosen cam chain tensioner by turning the screw with a suitable screwdriver in a clockwise direction until it stops.



Do not turn over the crankshaft while the tensioner is removed. This could upset the cam chain timing and damage the valves.

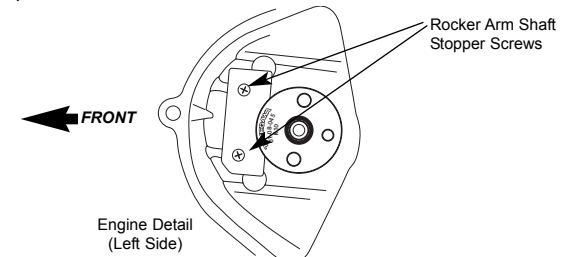
8. Use a wrench on the magneto flywheel bolt to prevent the camshaft from turning. Remove the camshaft sprocket bolts.

Remove the camshaft sprocket. Place a screwdriver through the cam chain to prevent it from falling into the engine.



Always pull the camshaft chain taut while turning the crankshaft when the camshaft chain is loose. This avoids kinking the chain on the lower (crankshaft) sprocket. A kinked chain could damage both the chain and the sprocket.

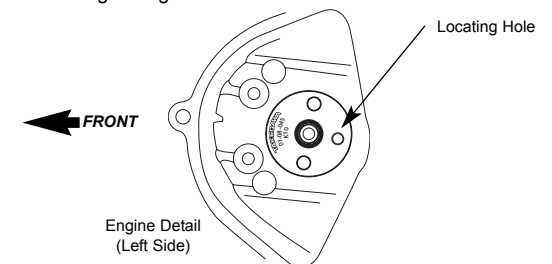
9. Remove the valve adjustment covers.
10. Remove the rocker arm shaft stopper screws and stopper plate.



11. While holding the rocker arm with one hand, pull out the rocker arm shaft and take out the rocker arms. Make a record of the rockers arm locations so they can be reinstalled to their original position.

12. Remove the stock camshaft.

13. Install new camshaft and apply engine oil to all cam parts. The locating hole goes to the back.



14. Install rocker arms and other removed parts.

15. Release the cam chain tensioner by turning the screw counterclockwise and let spring pressure adjust.

Torque Specs

Rocker Arm Shaft Stopper Screws	46 in-lb
Camshaft Sprocket Bolts	8.9 ft-lb
Left Side Engine Cover Bolts	46 in-lb
Camshaft Sprocket Cover Bolts	46 in-lb

16. Check and adjust valve clearance to the following:

Intake	.06mm (.002")
Exhaust	.08mm (.003")

17. Re-fill engine oil (0.9L).