

# INSTALLATION INSTRUCTIONS

## EX1 TUNEUP-KIT

10015724

### READ ALL INSTRUCTIONS BEFORE INSTALLING THIS KIT.

#### WARNING

Set the park brake. Turn the key to the OFF position and remove it from the switch. Install wheel chocks in front and behind each wheel before starting installation procedure.

To prevent battery explosion that could result in severe personal injury or death, keep all smoking materials, open flames, or sparks away from the batteries.

Be sure all electrical accessories are turned OFF before starting work on the vehicle.



Always wear a safety shield or approved safety goggles when working on the vehicle.

### TOOLS

- wheel chocks
- torque wrench (in. lbs - ft. lbs)
- oil drain pan
- floor jack
- socket wrench
- 17mm socket
- funnel
- 5/8" spark plug socket
- socket wrench extension
- jack stands

### KIT CONTENTS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	10015723	OIL, 5W-30, 750ML
2	1	10024504	SPARK PLUG, NGK CR4HSA
3	1	28463G01	AIR CLEANER ELEMENT
--	1	10008254	EX1 OIL DRAIN PLUG KIT (CONTAINS ITEMS 4 - 5)
4	1	696463	OIL DRAIN PLUG, SMALL, 150CC, ISG EFI
5	1	10010448	EX1 OIL DRAIN PLUG WASHER

### VEHICLE PREPARATION

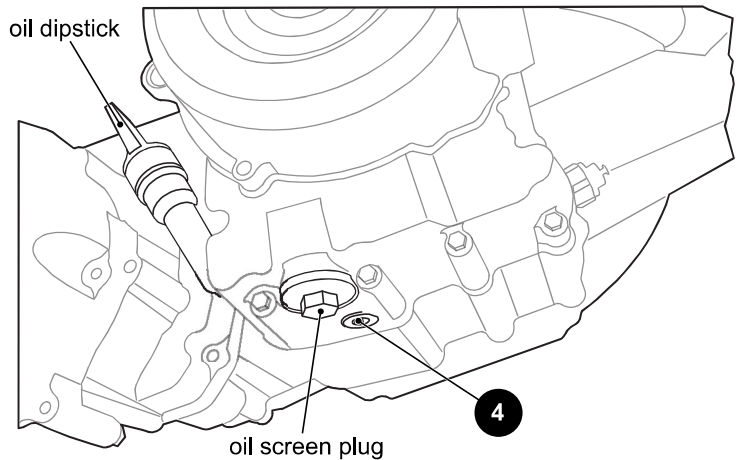
1. Compare the kit contents list to the parts packaged in the kit. Ensure all parts are included before beginning installation.
2. Park vehicle on a flat surface.
3. Turn the key to the OFF position and remove the key from the switch.
4. Chock wheels to keep vehicle from rolling.
5. Use a wrench with an insulated handle to disconnect the battery cables. Disconnect the negative (-) cable first, then disconnect the positive (+) cable.

## A. Remove the Engine Oil

**NOTICE:** Wear protective gloves to prevent scalding from hot engine oil.

**Change the engine oil when the engine is warm and the vehicle is parked on a level surface.**

**At the first oil change, small metal chips and lint may be found. This is normal, resulting from the break-in period. Inspect the oil screen at every oil change. The presence of large metal chips could indicate possible damage to the engine.**



1. Turn the key switch to the OFF position and engage the parking brake.
2. Wipe the top of the engine clean with a cloth to remove debris that could fall into the engine.
3. Remove the oil fill cap on the valve cover.
4. Chock the rear wheels.
5. Lift the front of the vehicle and support with jack stands.
6. Place a drain pan under the oil drain plug.
7. Remove the drain plug (4) and allow the oil to completely drain into the pan.
8. Before installing the new drain plug (4), clean the area around the drain hole with a lint free cloth.
9. Install new washer (4) onto new drain plug (4) and thread into drain hole.
10. Remove the oil screen plug.
11. Clean the oil screen and tensioner spring in a parts washer or with carburetor/brake cleaner.
12. Before installing the oil screen plug, clean the area around the drain hole with a lint free cloth.
13. Inspect the plug, oil screen, and o-ring for damage. Replace any damaged items.
14. Insert the oil screen into the tensioner spring and the spring into the drain plug.
15. Reinstall the plug/oil screen assembly and tighten to the torque values below.

Item	Torque Specification
oil drain plug (4)	130 in. lbs (14.7 Nm)
plug/oil screen assembly	130 in. lbs (14.7 Nm)

## B. Refill Oil

**NOTICE:** The use of an incorrect grade of engine oil can damage the engine. Always use the recommended grade. Do not mix engine oils of different grades or viscosity.

**Engine oil must be high quality oil that meets or exceeds API SF, SG, CC standards.**

**Do not overfill. Excessive oil can damage the engine. Add oil in small quantities with repeated level checks.**

**To allow for possible residual oil left in the engine, add slightly less than the rated engine capacity into the fill hole.**

1. Check the oil level on the dipstick. The oil should fall within the crosshatched markings on the dipstick.
2. Add oil (1) in small quantities with repeated level checks to make sure you are not overfilling the engine.
3. When the level is correct, replace the dipstick.
4. As a final check, check the oil level again with the vehicle on level ground.

**NOTICE:** Oil increases in volume when warm. The engine can be operated safely as long as the oil is within the crosshatch on the dipstick. Do not operate the vehicle if the oil level is below the safe area indicated on the dipstick.

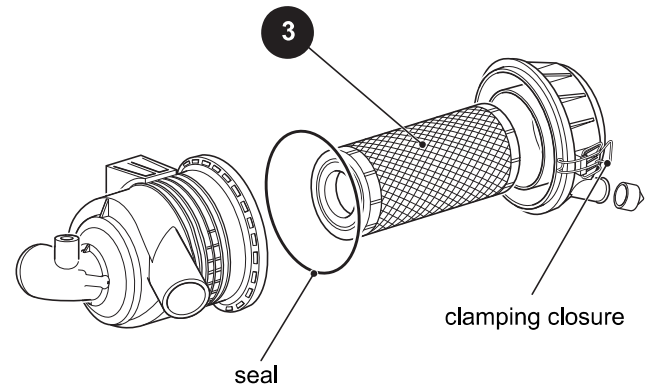
### C. Spark Plug Replacement

1. Using a spark plug socket or wrench, remove the spark plug.
2. Reinstall the new spark plug (2) into the cylinder head and tighten to the torque values below.

Item	Torque Specification
spark plug (2)	16 ft. lbs (22 Nm)

### D. Air Filter Replacement

1. Open clamping closures on air filter element housing.
2. Pull housing apart and remove old air filter element.
3. Install new air filter element (3) in reverse order of removal, ensuring the seal is in the original position.
4. Close clamping closures.



### E. Reconnect Battery Cables

1. Reconnect the negative (-) battery cable to the negative (-) battery post.
2. Reconnect the positive (+) battery cable to the positive (+) battery post.
3. Tighten hardware to the torque value shown below.

Item	Torque Specification
Battery Hardware	7 - 9 ft. lbs (10 - 12 Nm)