

Engine Removal and Inspection

Remove the engine from the vehicle. When removing the engine take note as to which engine mount screw the yellow starting system ground wire is attached to. It will be important to re-attach the ground wire in the same position when re-installing your new engine.

Remove clutch, air filter, tuned pipe and starter assembly. Save all of these original Traxxas parts as most of them will be used later.

This would be a perfect time to inspect the condition of your clutch bell bearings, clutch shoes and clutch spring. If the bearings are gritty feeling, they can cause your new engine to perform poorly and suffer from an inconsistent and unreliable idle. A clutch and bearings that are worn is the number one reason for an engine that does not operate at its highest potential on a consistent and reliable basis.

If the clutch shoes are worn, glazed over or have the pivot pin holes elongated replace them along with the clutch spring at this time.

Dynamite offers replacement bearings (DYN3223) and clutch shoes with spring (DYNP5184).

Replace the air filter element at this time also.

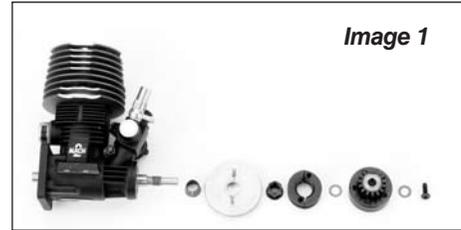
Replacement Engine Preparation

Install clutch

Use the original Traxxas tapered collet, flywheel, and clutch bell. Use the clutch nut that has been included with your new engine for reassembly. If needed use fresh clutch shoes, clutch spring and bearings.

Assemble the clutch system onto the engine in the order shown in image #1. The order of assembly goes in this order:

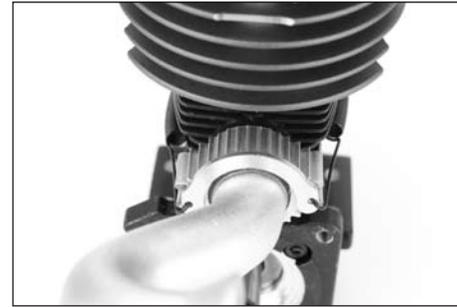
1. Tapered collet
2. Flywheel
3. Clutch nut
4. Clutch shoes and spring (take note as to the orientation of the clutch shoes when installed onto the flywheel. See Image 2)
5. 5 x 7 washer
6. Clutch bell and bearings
7. 5 x 7 washer
8. 3 x 6 button head screw.



Final end play for the clutch bell is adjusted with the 5 x 7 shims. Use enough shims to allow approximately .5mm of endplay on the clutch bell. If the endplay is larger than .5mm add 5X7 washers to the outside of the clutch bell in order to remove excess play. When the assembly is finished the clutch bell should be able to spin freely with no drag. If there is excess drag, check the clutch bell bearings for smooth operation or remove a shim from behind the 3 x 6 button head screw.

Install the exhaust system

If your vehicle is supplied with a bolt on style exhaust manifold, use the supplied O-ring seal (DYN0719) "C" shaped manifold adaptor and retaining spring. When using the "C" shaped manifold adaptor, be sure the ends of the retaining spring are positioned into the area previously occupied but the mounting screws that were removed earlier.



If your vehicle is supplied with a spring retention style manifold, use the supplied O-ring seal (DYN0719) along with the manifold gasket (DYNP5528) and retention spring.



Install starting system

Install the starting system using the three 3 x 12 Traxxas button head screws.

Attach air filter

Install the Traxxas air filter onto the DYN engine using a wire tie. A new filter element should be used. Make sure the air filter assembly is attached securely. Loss of the air filter will shorten the engine's life dramatically.

Re-install the engine

Using the reverse order of removal, re-install the engine into the vehicle. Use the supplied 3 x 10 cap screws to attach the engine the mounts. Don't forget to re-attach the yellow ground wire in the same position when re-installing your new engine. It is highly recommended to use a medium strength threadlocking compound on the engine mounting screws.

In order to set the gear mesh properly, place a small strip of paper or poly bag between the clutch bell and spur gear. Force the two gears together and tighten the motor mount screws securely. Remove the paper/poly bag. Your gear mesh should have just a slight amount of play without being too loose or too tight. Spin the drive wheels on the vehicle. If the gear mesh binds or makes a whining sound, the mesh is too tight. Simply loosen the motor screws and re-try with a different amount of pressure. This process offers a perfect quiet gear mesh.

Re-attach the starter motor wires

In order to attach the blue remote glow driver wire to the glow plug, it may be necessary to open up the end of the remote glow driver's lead wire with a pair of small needle nose pliers. Some Traxxas vehicles are equipped with a glow plug lead that is replaceable. If your vehicle has a glow plug lead that is replaceable an option here is to install the Dynamite Head Lock Glow Plug Lead (DYN7682).

To finish this part of the installation, tuck the glow plug lead wire down into the open fin on the cooling head for protection.

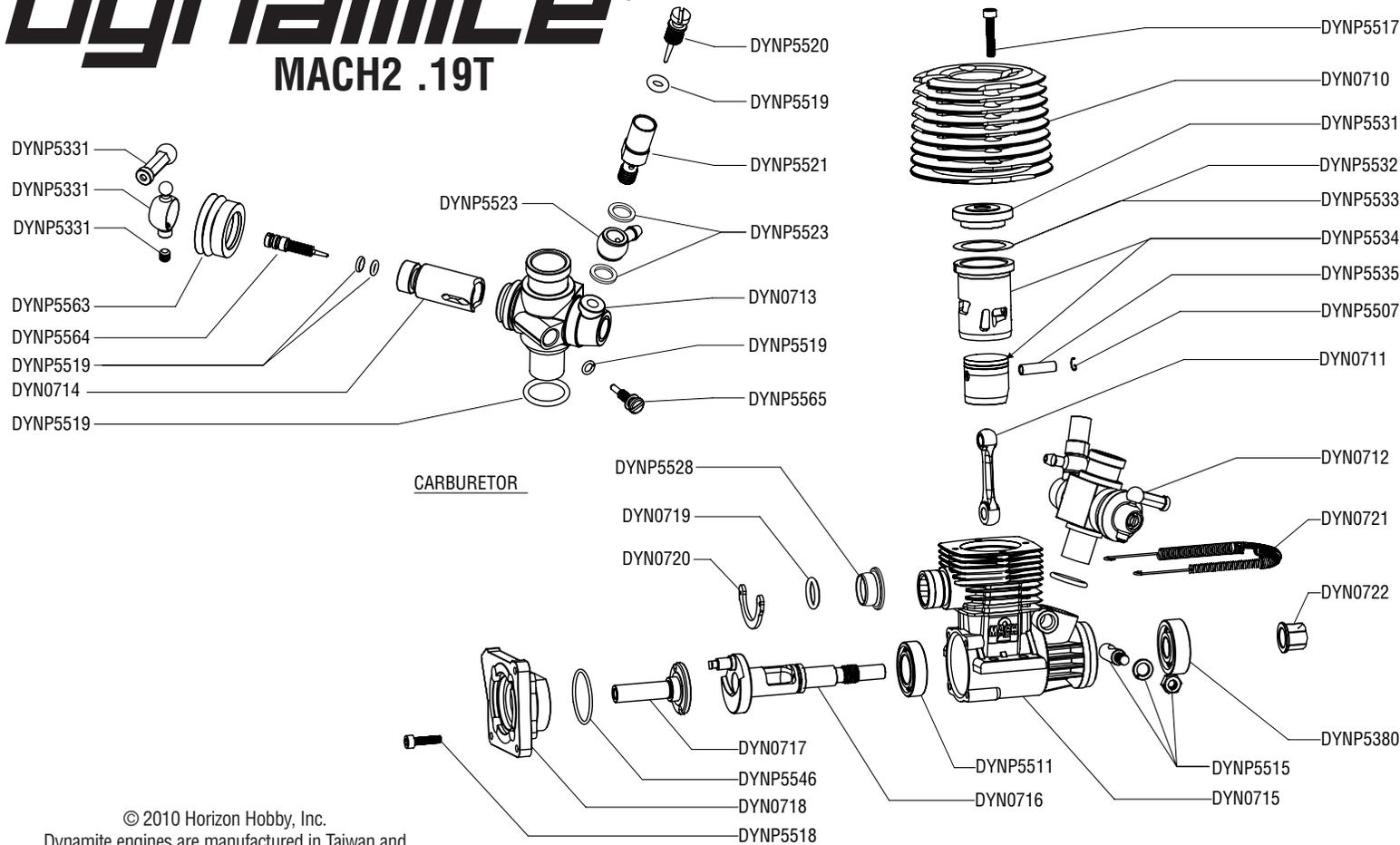
Your engine is now ready to start and begin the break-in procedure.

Follow the break in and tuning procedures outlined in the universal engine guide included with your engine.

For maximum performance of your engine we highly recommend the use of Dynamite inline exhaust systems (DYN6628, DYN6629 and DYN6630), air filters(DYN2612) and Max-Life™ clutch shoes (DYNP5184).

dynamite[®]

MACH2 .19T



Spare Parts Listing

Stock #	Description
DYN0710	Cylinder Head/ Red: .19T
DYN0711	Connecting Rod:19T
DYN0712	Carburetor: 19T
DYN0713	Carburetor Body: DPS 19T
DYN0714	Throttle Barrel: DPS 19T
DYN0715	Crankcase: 19T
DYN0716	Crankshaft: 19T
DYN0717	Start Shaft: .19T
DYN0718	Backplate: 19T
DYN0719	Exhaust O-ring: .19T
DYN0720	Exhaust Manifold Adaptor (2): .19T
DYN0721	Exhaust Manifold Spring: 19T
DYN0722	Clutch Nut: 19T
DYNP5331	Carb Ball Link/Ball End
DYNP5380	Front Bearing: DPS .18RE/21XP
DYNP5507	Wrist Pin Clips (2): DPS .12/.18RE
DYNP5511	Rear Bearing: DPS .12/.18RE
DYNP5515	Carb Retainer Post: DPS .12/.18RE
DYNP5517	Cylinder Head Screw(4): DPS .12/.18RE
DYNP5518	Back Plate Screws 2.6X8mm (2): DPS.12
DYNP5519	2-Needle Carb O-Ring Set: DPS .12/.18RE
DYNP5520	High-Speed Adjustable Needle: DPS .12/.18RE
DYNP5521	High-Speed Needle Holder: DPS .12/.18RE
DYNP5523	Fuel Inlet Nipple/Washers: DPS .12
DYNP5528	Engine Header Seal: DPS .12, 18RE
DYNP5531	Head Button: DPS .18RE
DYNP5532	Head Shim, .1mm (3): 18RE
DYNP5533	Head Shim, .2mm (3): 18RE
DYNP5534	Piston/Sleeve: 18RE
DYNP5535	Wrist Pin: 18RE
DYNP5546	Backplate O-ring (2): DPS .12/.18RE
DYNP5563	Slide Carburetor Boot: DPS .12RE
DYNP5564	Slide Carb Low-Speed Needle: DPS .12RE
DYNP5565	Idle Screw: DPS .12/.18RE

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