

MTD ENGINES (Cub Cadet)

Engine Models Affected: All Cub Cadet Engines (Vertical, Horizontal, Single Cylinder, Twin Cylinder)

Model Platforms Affected: **Walk Behind Mowers** (Push & Self Propel)
Chore Products (Chipper Shredder, Blowers, Tillers, Pressure Washers, Edger, Wheeled String Trimmer).
Snow Blowers (Single Stage, Two Stage, Three Stage).
Lawn Tractors (CR30 Rear Engine Rider, XT1, XT2).
Zero Turn Riders (RZT L34).

Serial Number Range Affected: All Production Years

Date: November 05, 2019

Subject: Cub Cadet Engine and Carburetor Evaluation Form. **INFORMATIONAL ONLY**

NOTE: These materials are prepared for use by trained technicians who are experienced in the service and repair of equipment of the kind described in this publication, and are not intended for use by untrained or inexperienced individuals. Such individuals should seek the assistance of an authorized service technician or dealer.

NOTE: Always wear eye protection while servicing equipment. Wear hearing protection when appropriate. Always work in a well ventilated area and follow all safety precautions when dealing with combustible materials.

NOTE: Left (LH) and Right (RH) sides are determined from the operator's position and facing in the forward direction.

ATTENTION SERVICE MANAGER

PURPOSE:

The purpose of this Informational Advisory is to notify Cub Cadet Dealers that when performing any carburetor or engine replacement and or repair during the warranty period of the Cub Cadet engines, The "Engine Inspection Report" and/or the "Carburetor Warranty Check List" must be completed.

The "Engine Inspection Report" and "Carburetor Warranty Check List" (769-11533) is attached with this Advisory and can be found on the Dealer Knowledge Site at Article #5435 and #5874.

ACTION REQUIRED (For Engines):

When performing a repair on a Cub Cadet engine during the warranty period, the "Engine Inspection Report" is required to be completed with all available information and submitted with a Cub Cadet warranty claim.

NOTE: If there are any abnormal findings during the inspection or if a complete engine replacement is required, contact the Cub Cadet Dealer Tech Group to request a Special Authorization Number and to start a case file for the Cub Cadet Engine Evaluation. Please take clear photos and have them added to the case file along with a copy of the "Engine Inspection Report" and Special Authorization Number.

Any Cub Cadet Warranty Claims submitted without a copy of the "Engine Inspection Report", Case File Number and/or Special Authorization Number will cause the Cub Cadet Warranty Claim to be returned/denied.

ACTION REQUIRED (For Carburetors):

When performing a repair on a Cub Cadet engine Carburetor during the warranty period, the "Carburetor Warranty Check List" is required to be completed with all available information and submitted with a Cub Cadet warranty claim.

NOTE: If there are any abnormal findings during the inspection, contact the Cub Cadet Dealer Tech Group and request to start a case file for the Cub Cadet Carburetor Evaluation. Please take clear photos and have them added to the case file along with a copy of the "Engine Inspection Report".

Any Cub Cadet Warranty Claims submitted without a copy of the "Carburetor Warranty Check List" on record at Cub Cadet will cause the Cub Cadet Warranty Claim to be returned/denied.

This Advisory is being released for informational purposes only.

SERVICE MANAGER	PARTS MANAGER	SALES MANAGER	SERVICE TECH.	SERVICE TECH.

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CARBURETOR WARRANTY CHECK LIST

Dealer number _____ Technician _____ Inspection Date _____
Engine model number _____ Engine serial number _____

IMPORTANT: This check sheet must be completed before replacing a carburetor under warranty. This check list must accompany all MTD engine carburetor warranty claims. Failure to do so will result in the warranty claim being returned.

Symptoms

Does not start

- Check for ignition
- Check compression
- Check valve lash
- Check for a blocked air filter
- Check fuel quantity (at least 1/2 tank)
- Check fuel quality (water, dirt, stale, etc...)
- Test for alcohol*
- Check fuel filter
- Check for full choke movement (if equipped)

Dies after starting

- Check fuel quality (water, dirt, stale, etc...)
- Check fuel filter
- Check fuel flow to the carburetor
- Check fuel tank venting

Idles rough/misfires

- Check fuel quality (water, dirt, stale, etc...)
- Check governor and speed settings
- Check for linkage interferences
- Check for debris/dirt in the carburetor (jet and emulsion tube)

NOTE: Removal of the welch plugs will destroy the carburetor and void the warranty.

- Check carburetor O-rings
- Check for an intake air leak

Hunting/surging

- Check fuel quality (water, dirt, stale, etc...)
- Check governor and speed settings
- Check for linkage interferences
- Missing or damaged springs
- Check for debris/dirt in the carburetor (jet and emulsion tube)

NOTE: Removal of the welch plugs will destroy the carburetor and void the warranty.

- Check carburetor O-rings
- Check for an intake air leak
- Test for alcohol*
- Check fuel filter
- Check valve lash

Poor power

- Check fuel quality (water, dirt, stale, etc...)
- Check governor and speed settings
- Check for parasitic loads

Running rich (black smoke)

- Check choke operation
- Check air filter
- Check for needle and valve seat leakage

Flooding carburetor

- Check fuel quality (water, dirt, stale, etc...)
- Check for needle and valve seat leakage
- Check for a blocked bowl vent or that the metal gasket installed incorrectly

Other -Describe _____

Cause of failure _____

* Refer to Tech Brief 12.18.07 for alcohol testing.

** Engine manuals are available through the dealer service site

ENGINE INSPECTION REPORT

◆ Enter as many dimensions and as much information as possible.

◆ Write additional comments on back.

Equipment Brand	Type of Equipment
Purchase Date	Hours
Engine Model # or Part #	Type #
Serial #	
Customer	City, State
Phone # - Home	Phone # - Work
Dealer Name	Dealer #
Warranty Claim #	Shop Ticket #
Inspection Date	Technician

1. Equipment Condition

Clean Normal Use Heavy Use

2. Engine Oil

Oil Level: Full Add Mark Low Empty

Condition: Clean Gritty Used

Other _____

3. Air Cleaner Assembly

Type: Dual Foam Paper Cartridge

Condition: Clean Dry Damaged Misassembled

Plugged New Leakage Missing Parts

4. Cooling/Cylinder Fins/Flywheel and Screen

Condition: Clean Plugged Dirty Damaged

5. Fuel System/Carburetor

Fuel Tank: Not Equipped Clean Dirt/Rust-Inside

Fuel Cap: Good Damaged Missing

Fuel Line/Filter: Good Cracked/Broken/Dirty

Not Equipped

Carburetor: Good Contaminated Fuel

Dirty- Inside Dirty- Outside Worn/Missing Parts

6. Ignition System

Cyl. #1

Cyl. #2

Spark Plug Type: _____

Condition: Good Carbon Fouled Oil Fouled

Coil and Wires: Good Damaged No Spark

7. Starter

Type: Rewind Electric Other

Condition: Good Worn Rope Worn Eyelet

Cracked Housing Missing Parts

Worn Gear Broken Spring Other

8. Valves

Cyl. #1

Cyl. #2

Clearance: In. ___ Ex. ___ In. ___ Ex. ___

Face Worn/Burnt:

Leaking:

Guide Worn:

Seat Cracked/Loose/Worn:

9. Lubrication System

Type: Splash/Slinger Dipper Pump Oil Filter

Condition: Good Worn Damaged/Broken

No Pressure Leaking

Breather/Tubes: Good Worn Broken/Cracked

Misassembled

10. Connecting Rod/Piston

Cyl. #1

Cyl. #2

Rod: Broken:

Scored:

Bolts Loose:

Discolored:

Piston: Scratched/Scored:

Galled:

Discolored:

Broken:

Ring End Gap: Top: _____

Center: _____

Bottom: _____

11. Crankshaft

Crank Pin Journal Size: _____

Scored:

PTO Journal Size: _____ Scored

Mag. Journal Size: _____ Scored

Broken: Mag. End PTO End Other

Bent: Mag. End PTO End Other

12. Cylinder

Cyl. #1

Cyl. #2

Bore Size: Top: _____

Center: _____

Bottom: _____

Scratched/Scored:

Galled:

Discolored:

Bearings: Good Worn Scored

Non-Original Parts Used: Where? _____