

# McCULLOCH

Model	Bore	Stroke	Displ.	Drive Type
Eager Beaver 2010, Mac 3210	38 mm (1.4 in.)	30 mm (1.2 in.)	32 cc (2.1 cu. in.)	Direct
Silver Eagle 2012	38 mm (1.4 in.)	30 mm (1.2 in.)	32 cc (2.1 cu. in.)	Direct
Eager Beaver 2014, Mac 3214, Silver Eagle 2014	38 mm (1.4 in.)	30 mm (1.2 in.)	32 cc (2.1 cu. in.)	Direct
Eager Beaver 2016, Mac 3216, Silver Eagle 2016	38 mm (1.4 in.)	30 mm (1.2 in.)	32 cc (2.1 cu. in.)	Direct

## MAINTENANCE

**SPARK PLUG.** Recommended spark plug is Champion DJTY or equivalent for all models. Spark plug electrode gap is 0.025 in. (0.6 mm) for all models. Note that spark plug has a tapered seat and does not require a gasket. Tighten spark plug to 150 in.-lbs. (17 N-m).

**CARBURETOR.** A Zama C1Q-M27 diaphragm type carburetor is used on all models. Refer to **CARBURETOR SERVICE** section for overhaul procedures and exploded views of Zama carburetors.

Initial adjustment for both the low-speed and high-speed mixture screws is one turn open from a lightly seated position. Make final adjustment with engine warm and running. Make certain that the air cleaner is clean.

Adjust idle speed screw so engine idles just below clutch engagement speed. Adjust low-speed mixture screw to obtain highest possible engine speed, then turn screw out (counterclockwise) 1/8 to 1/4 turn. Engine should accelerate cleanly without hesitation. If engine stumbles or seems sluggish when accelerating, adjust low-speed mixture screw until engine accelerates cleanly. Readjust idle speed screw if necessary to obtain recommended idle speed of 2800-3300 rpm. Chain must not move when engine is idling.

High-speed mixture screw should be adjusted to obtain optimum performance with saw under cutting load. Do

not adjust high-speed mixture screw too lean (turned too far clockwise) as maximum permissible engine speed may be exceeded and engine may be damaged from lack of lubrication and overheating. Maximum no-load speed (with bar and chain installed) must not exceed 11,000 rpm.

To remove carburetor (4—Fig. MC130), remove the air filter cover (1) and filter element. Remove the two screws securing the filter base (3) and carburetor. Remove the filter base and carburetor, and disconnect fuel line and throttle link. Tighten carburetor mounting screws to 30-40 in.-lbs. (3.4-4.5 N-m).

**IGNITION.** All engines are equipped with an electronic ignition system. The ignition coil and electronic circuitry are contained in a one-piece ignition module (10—Fig. MC130), which is serviced as a unit assembly.

Air gap between the flywheel magnets and the laminated legs of the module should be 0.010-0.015 in. (0.25-0.38 mm). Loosen ignition module mounting screws and move module to obtain desired air gap. If air gap is excessive, engine may be hard to start or may not start.

**LUBRICATION.** The engine is lubricated by oil mixed with the gasoline fuel. Recommended fuel/oil ratio is 40:1 when using McCulloch 2-cycle oil. If McCulloch oil is not used, a good grade oil designed for use in air-cooled, two-stroke engines should be mixed at

a 20:1 ratio. Do not use oil designed for automotive use. Use a separate container to mix the fuel and oil.

All models are equipped with an automatic chain oiling system. Recommended oil is McCulloch Chain, Bar and Sprocket oil. Oil designed for automotive use may also be used. Select oil viscosity according to ambient temperature.

## REPAIRS

### CRANKCASE PRESSURE TEST.

An improperly sealed crankcase can cause the engine to be hard to start, run rough, have low power and overheat. Refer to **ENGINE SERVICE** section of this manual for crankcase pressure test procedure. If crankcase leakage is indicated, pressurize the crankcase and use a solution of soap and water to check gasket, seals, pulse line and castings for leakage.

### PISTON, RINGS AND CYLINDER.

To remove the piston, it is necessary to remove the powerhead (12—Fig. MC131) and separate the cylinder from the crankcase as follows: Unbolt and remove chain brake housing (18—Fig. MC131), bar and chain. Remove the air filter cover (10), fan housing (24), fuel tank (7) and oil tank (20). Remove the ignition module, air filter assembly, carburetor and muffler.

Remove spark plug and install a suitable piston stop tool or insert the end of a rope in spark plug hole to prevent the crankshaft from rotating. Note that fly-

# Mcculloch 3214 Repair Manual

**Ian Pickup**



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