

TO: SERVICE MANAGER TECHNICIANS
PARTS MANAGER

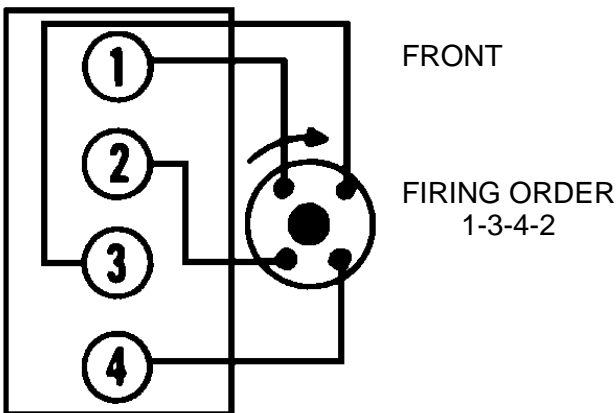
No. 81-15

MCM/MIE 470, MCM 485 Tune-Up Specifications

Model	470	485
Horsepower (Kilowatts)	170 (127kw)	185 (131kw)
Cu. In. Displacement	224 (3674cc)	
No. of Cyls.	4	
Bore	4.36" (11.07cm)	
Stroke	3.75" (9.53cm)	
Compression Ratio	8.8:1	
Compression Pressure	150 psi (10.5 kg/cm ²)	
Point Gap	.022" (56mm)	
Point Dwell	28° – 34°	
Point Spring Tension	19 – 23 oz. (.54 – .65kg)	
Spark Plug Type	Champion RBL-9Y or AC R42TS	
Plug Gap	.035" (.89mm)	
Timing @ Idle RPM	8° BTDC	
Max. RPM @ W.O.T.	3800 – 4200	4400 – 4800

Model	470	485
Idle RPM (In Gear)	650-700	
Firing Order	1-3-4-2 (Figure 1)	
Fuel Pump Pressure	3-6 psi (.21 – .42 kg/cm ²)	
Electrical System	12 Volt Negative Ground	
Battery Rating	Reserve Capacity Rating of 100 Min.	
Oil Pressure @ 2000 RPM	30 – 60 psi (2.1 – 3.9 kg/cm ²)	
Oil Pan Capacity w/Filter	Approx. 5.5 Qts. (5.2 liters)	
Alternator Rating	17 Amp. @ 4200 RPM (Air-Cooled) Regulator	N.A.
	39 Amp. @ 4200 RPM (Water-Cooled) Regulator	
Valve Lash	N.A.	
Closed Cooling System Capacity	Approx. 10.5 Qts. (9.9 liters)	
Closed System Cap Pressure	14 psi (1 kg/cm ²)	
Thermostat	163°F (73°C)	

Firing Order



**Figure 1. MCM 470/485 Firing Order
MIE 470 L.H. or R.H. Firing Order**

MCM/MIE 470, MCM 485 Electrical Specifications

Ignition Specifications

Engine Model	470/485
Resistor Wire (Ohms)	1.8 – 2
Spark Plug Type Spark Plug Gap Point Dwell Point Spring Tension Timing	Refer to “Tune-Up Specifications”
Consumer	.18 – .25 MFD

Engine Model	470/485
Coil	Coil Part No. 32193A2
Coil Primary Resistance (Ohms) Minimum	1.1
Coil Primary Resistance (Ohms) Maximum	1.5
Coil Secondary Resistance (Ohms)	9,500 – 15,000

Starter Motor Specifications

Identification Number	No Load Test					Brush Spring Tension
	Volts	Min. Amps	Max. Amps	Min. RPM	Max. RPM	
50-72550 50-72550A1 (Prestolite) MHA 7016	11	—	70	5,500	—	32 – 40 Oz. (.91 – 1.13 kg) at Brush Spring Near Brush
50-88671A1 (Prestolite) MHA 7020	11	—	70	5,500	—	32 – 40 Oz. (.91 – 1.13 kg) at Brush Spring Near Brush

Alternator Specifications

Identification Number	Ground	Rotation	Field Current		Output (Hot)
			Amps	Volts	
398-3631A2	Negative	Same as Engine	N.A.	N.A.	16
			Permanent Magnet		
398-3631A5 398-3631A6	Negative	Same as Engine	N.A.	N.A.	39
			Permanent Magnet		