

CIRCULATE TO:  
SERVICE MANAGER  
PARTS MANAGER  
MECHANICS

- A. MCM/MIE 470, MCM 485 Tune-Up Specifications
- B. MCM/MIE 470, MCM 485 Electrical Specifications

### A. 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 <sup>2</sup> )	
Point Gap	.022" (56mm)	
Point Dwell	28° - 34°	
Point Spring Tension	19 - 23 oz. (.54 - .65 kg)	
Spark Plug Type	Champion RBL-9Y or AC R42TS	
Plug Gap	.035" (.89mm)	
Timing @ Idle RPM	8° BTDC	

Model	470	485
Max. RPM @ W.O.T.	3800-4200	4400-4800
Idle RPM (In Gear)	650-700	
Firing Order	1-3-4-2 (Figure 1)	
Fuel Pump Pressure	3-6 psi (.21-.42 kg/cm <sup>2</sup> )	
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 <sup>2</sup> )	
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 <sup>2</sup> )	
Thermostat	163°F (73°C)	

#### FIRING ORDER

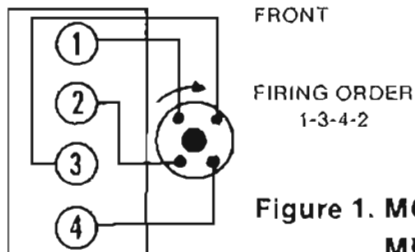


Figure 1. MCM 470/485 Firing Order  
MIE 470 L.H. or R.H. Firing Order

**B. MCM/MIE 470, MCM 485 ELECTRICAL SPECIFICATIONS**

**IGNITION SPECIFICATIONS**

Engine Model	470/485	Engine Model	470/485
Resistor Wire (Ohms)	1.8-2	Coil	Coil Part No. 32193A2
Spark Plug Type Spark Plug Gap Point Dwell Point Spring Tension Timing	Refer to "Tune-Up Specifications"	Coil Primary Resistance (Ohms) Minimum	1.1
		Coil Primary Resistance (Ohms) Maximum	1.5
Consumer	.18 - .25 MFD	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		