Section 20
ENGINE

Group 5
GENERAL INFORMATION

KOHLER ENGINE FOR 110 TRACTOR

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110 TRACTOR

Litho in U.S.A.

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Litho in U.S.A.

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DESCRIPTION

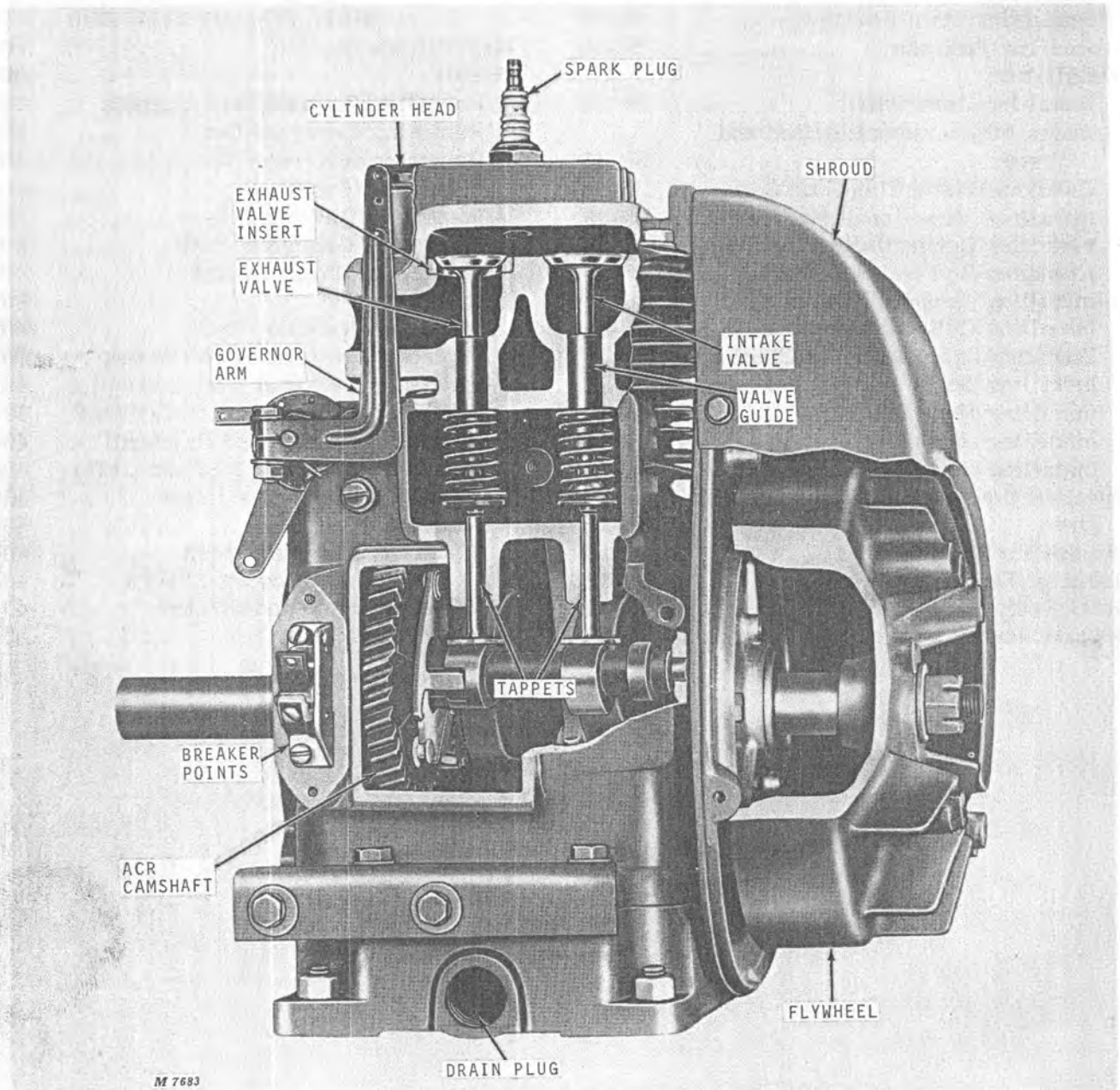

Fig. 1–Cutaway View of Kohler K181S Engine Showing Valves and Tappets

Both K161S and K181S engines used in 110 Tractors are Kohler four cycle, internal combustion engines. They have cast iron blocks, and are L-head, single cylinder with large bore - short stroke design.

Both engines are air cooled with anti-friction ball bearings, oil bath lubrication and have internal flyweight governor.

Detailed specifications for each engine are covered in Section 10, "General", and at the end of each group in this section.

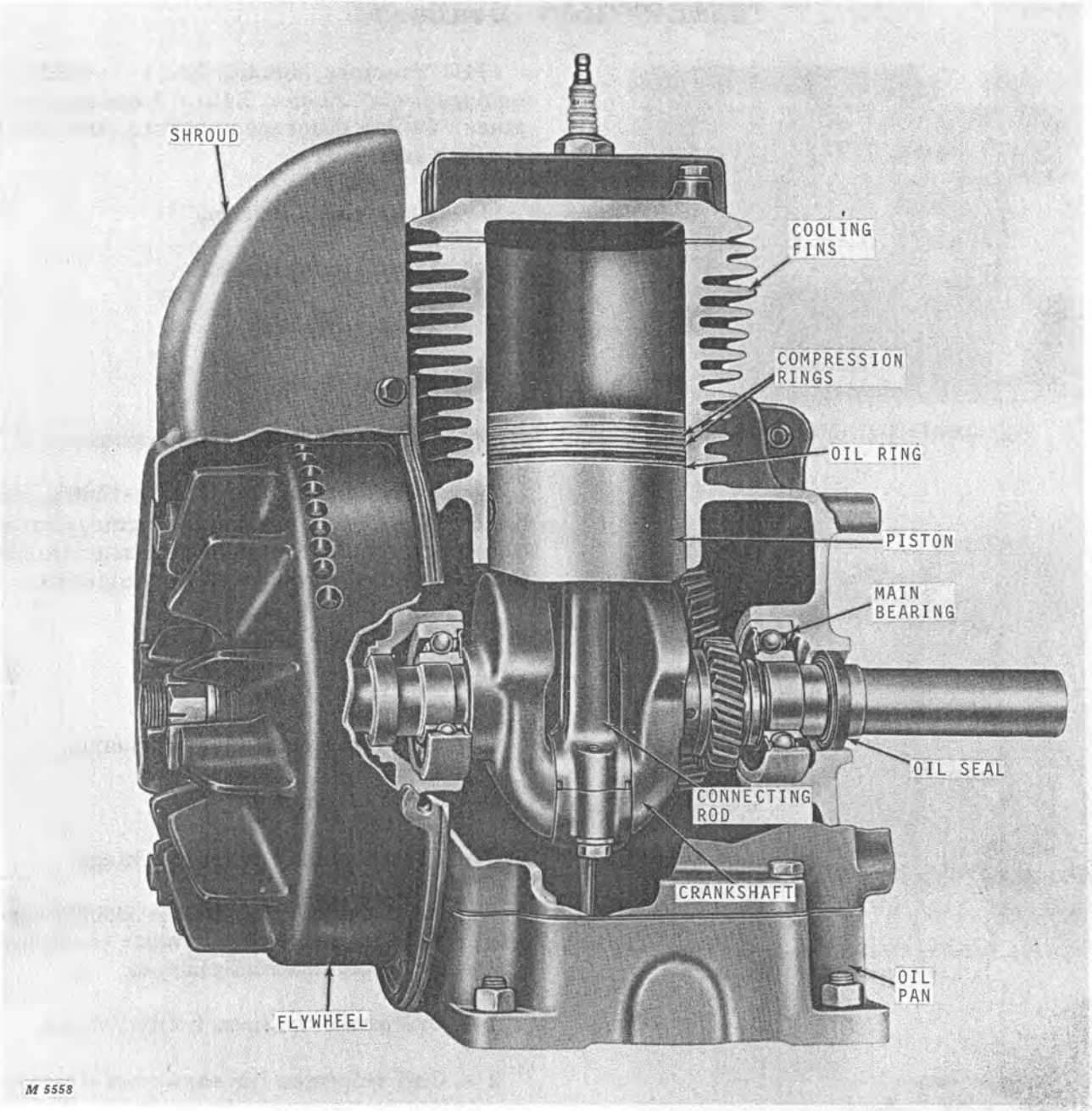

Fig. 2–Cutaway View of Kohler K181S Engine Showing Piston, Crankshaft and Bearings

.The maximum brake horsepower curve shows the performance of laboratory engines equipped with standard air cleaner, muffler and flywheel corrected to sea level barometer and with free air temperature of 60° F. Horsepower decreases 3-1/2% for each 1000 feet above sea level, and 1% for each 10° F. above 60° F.

Horsepower ratings are established in accordance with Society of Automotive Engineers - Small Engine Test Code - J 607.

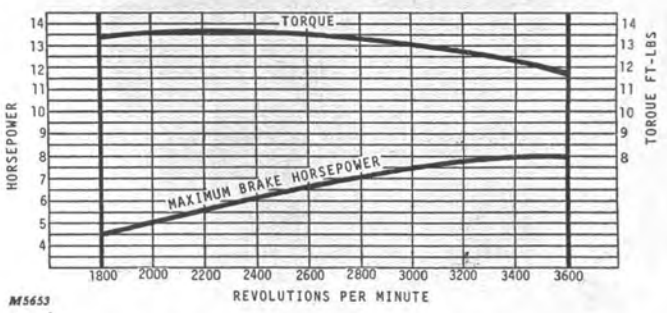

Fig. 3–Torque-Horsepower Chart

DESCRIPTION—Continued

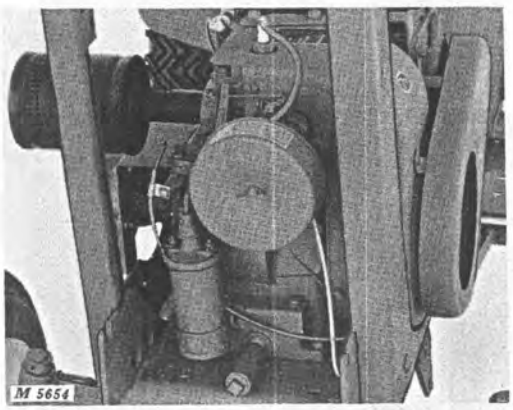

Fig. 4–Kohler K161S 7 Horsepower Engine Serial No. (-3550)

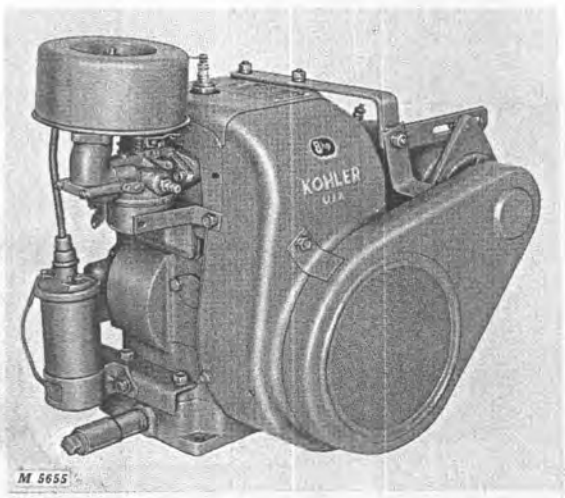

Fig. 5–Kohler K181S 8 Horsepower Engine Serial No. (3551-15000)

Fig. 6–Kohler K181S 8 Horsepower Engine Serial No. (15001-100000)

110 Tractors, Serial No. (- 3550), are equipped with Kohler K161S 7 Horsepower engines. Visible differences between this and later engines are:

1 - Air cleaner location.

2 - Screw-type dipstick.

3 - Blower housing.

4 - Muffler design.

5 - Engine identification markings.

Tractors, Serial No. (3551-15000), used Kohler K181S 8 Horsepower engines. In addition to mechanical changes necessary to obtain the extra horsepower, visible changes are:

1 - Air cleaner position.

2 - Push-type dipstick.

3 - Extra screen in blower housing.

4 - Improved muffler.

5 - Engine identification markings.

Tractors, Serial No. (15001-100000) use the Kohler K181S 8 Horsepower engine which has the following visible external changes:

1 - Crankcase drain on bottom of pan.

2 - Coil relocated for easier point access.

Internal changes on engines for tractors, Serial No. (40001-100000), include:

1 - Automatic compression release camshaft (ACR).

2 - Exhaust valve rotators for tractors equipped with hydraulic lift.

3 - Studs are provided in the engine head to carry the hydraulic pump and valve on 110H Tractors.

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