

158.5 ft.-lbs. and occurs at an engine speed of 1200 RPM.

The fuel system is of the direct injection type, employing a toroidal chamber machined in the crown of each piston. The fuel is injected into the chamber by means of a multi-hole type of injector.

The fuel injection pump is made by C. A. V. and is of the D. P. A. distributor type, with a built-in mechanical governor and an automatic advance mechanism. The pump is flange-mounted to the back of the timing gear housing and is gear-driven through two idler gears by the crankshaft gear.

The valves are vertically located in replaceable guides in the cylinder head and have two valve springs for each valve. The valves are operated by tappets from a gear-driven cam-

shaft, which is located high on the right-hand side of the cylinder block.

Two different types of piston and cylinder liner arrangements have been used in conjunction with the AD4.203 Engine. Early engines, up to engine serial no. 2939036, used chrome-plated steel cylinder liners. Engines after serial no. 2939836, and up, have cast iron cylinder liners with different piston rings and slightly altered pistons. Both cylinder liners are of the dry-type.

The crankshaft is supported by five main bearings and is forged from chrome molybdenum steel, with induction-hardened main and crankpin journals. Crankshaft end-play is controlled by replaceable thrust washers, installed on each side of the rear main bearing.

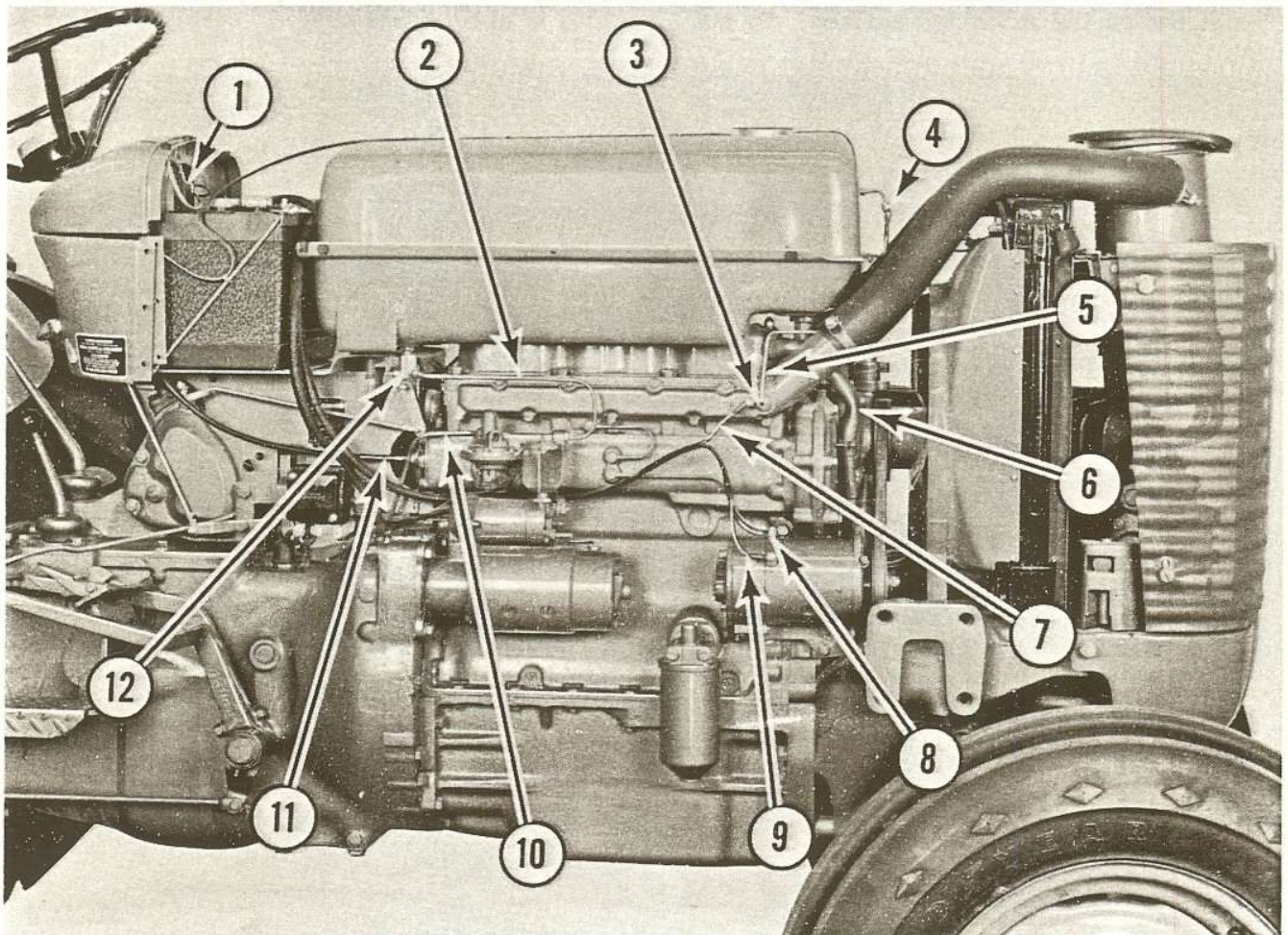


Fig. 4 - AD4.203 Engine Installation in MF 65 Tractor - Identification of Parts

- |  |   |   |
|--|---|---|
| 1. Light Connector                                   | 5. Fuel Line - Connector Tee to Thermostart | 9. Generator Field Wire (Striped)                     |
| 2. Fuel Line - Fuel Shut-Off Valve to Fuel Lift Pump | 6. Breather Pipe Hose                       | 10. Fuel Line - Fuel Lift Pump to Primary Fuel Filter |
| 3. Thermostart (Cold Starting Aid)                   | 7. Thermostart Wire (Yellow)                | 11. Tractormeter Drive                                |
| 4. Leak-Off Connector Tee                            | 8. Generator Armature Wire (Black)          | 12. Fuel Tank Shut-Off Valve                          |