MAINTENANCE

Trouble Shooting

Possible Cause

Possible Remedy

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Hard to Start

No gasoline in fuel tank or carburetor Fill tank with new gasoline, open fuel shut-off valve. Check fuel lines, fuel strainer and carburetor.
Gasoline strainer or fuel lines cloggedClean fuel strainer, check fuel lines and carburetor.
Impulse coupling inoperative (tractors with magneto)Flush with kerosene; refer to page 31. Water in gasoline
spark plugs; or see your dealer.
Water in cylinders Check cylinder head gasket or look for clogged drain
hole in exhaust manifold or muffler.
Choked improperly. Flooded engine
Defective ignition or loose wiring Check wiring, plugs, magneto, battery ignition unit, etc.;
refer to pages 29 to 35.
Defective battery or cranking motor Check and service; refer to page 37 or 40 or replace.
Spark plugs dirty or improper gapClean, adjust gap to .023 inch, or replace plugs.
Magneto grounded (tractors with magneto) Pull out on ignition switch. Check for other possible
ground; also refer to "Magneto" on page 30.
Engine speed control not advancedAdvance lever ½ for starting.
Lack of compression
Flywheel ring gear teeth broken See your dealer.
Too heavy grade of lubricating oilDrain and refill with proper lubricant. Refer to the lubri-
cant specifications on page 17.
Gears engagedPut gearshift in neutral.
Internal seizure

Engine Operates Irregular or Knocks

Engine incorrectly timedRetime. See page 32 or page 35. Spark plugs dirty; wrong gap or wrong typeClean; reset gap to .023 inch or replace. Poor or weak sparkCheck magneto or battery ignition unit if spark is good from coil. Check distributor points and gap; spark plugs, and wiring; see page 29 or 34.
Carburetor setting incorrect
Poor grade fuel or water in fuelDrain and use a good grade of clean fuel.
Engine overheating
on page 57.
Engine valves at faultdealer.
Air leaks around intake manifoldCheck gasket and tighten nuts.
Engine smokes Check air cleaner oil level. Check fuel delivery at
carburetor. Check for worn piston and rings; or see
your dealer.
your dealer. Excessive carbon in engine
Loose piston pin or bearings
Broken rings or loose pistons
Worn connecting rod and main bearings See your dealer.
Governor sticking or needs adjustment See your dealer.

Lack of Power

Engine speed control lever not advanced	. Advance engine speed control lever.
	. Run engine until it warms up before putting under load.
0	Check cooling system; or see your dealer.
Engine overloaded	.Reduce load.
Engine knocks excessively	Use good fuel also check timing or see your dealer