



International Harvester

**Operator's Manual
for FARMALL**

**Super M & MV
Gas & LP**

JENSALES.COM

or Call 800-443-0625



THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
INTERNATIONAL HARVESTER OR IT'S SUCCESSORS. INTERNATIONAL HARVESTER AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

IH-O-SUP M,MV

Operator's Manual

CLICK ANYWHERE FOR MORE DETAILS

Serial Number:	Year Made:	Plate Location:
L500001	1952	LEFT SIDE OF TRANS HOUSING;INCLUDES SUPER MD, MDV, MV, MTA
F501	1952	LEFT SIDE OF TRANS HOUSING
F12516	1953	LEFT SIDE OF TRANS HOUSING
L501906	1953	LEFT SIDE OF TRANS HOUSING
F51977	1954	LEFT SIDE OF TRANS HOUSING

Paint

Color Application:	MFG Color Name:
BODY	ANTIQUE 2150 RED
TRIM	ANTIQUE WHITE
WHEELS	ALUMINUM

purchase full manual at

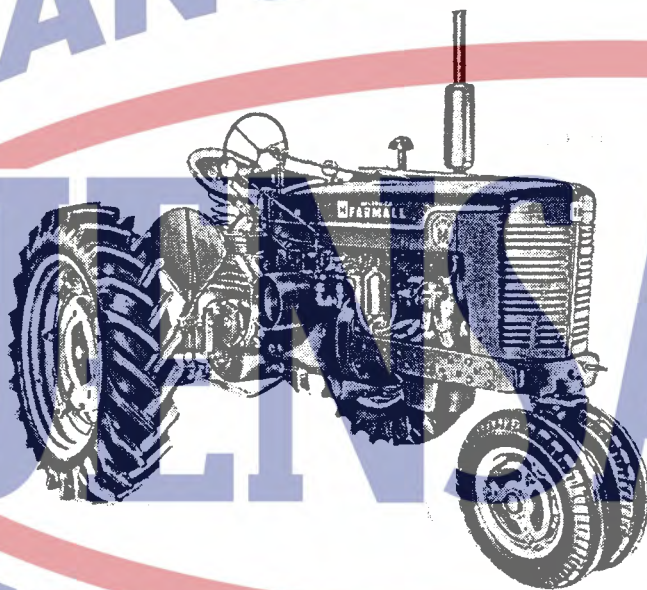
JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

CLICK ANYWHERE FOR MORE DETAILS

OWNER'S MANUAL

MANUAL PREVIEW



McCormick Farmall "Super M"



McCormick Farmall "Super MV"

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

INTERNATIONAL HARVESTER COMPANY
CHICAGO, ILLINOIS

INTERNATIONAL HARVESTER MODEL M

When the International Harvester Co. introduced the Farmall in 1924, this all-purpose row crop tractor was destined to revolutionize agriculture and hasten the mechanization of farming.

The F series of Farmalls; F-12, F-14, F-20 and F-30, were to be phased out and replaced with a new series of Farmalls in 1939. The new tractors were designated the A, B, H, and M.

International Harvester hired Raymond Loewy as early as 1936 to design the new series of tractors. In appearance the M was sleek, a hood enclosed most of the engine parts such as the gas tank, radiator, front steering, and a grille.

The M exemplified the engineering saying that "If it looks right, it is right." This maxim was to be proven true over the production life of the M.

The new series were quick to become popular and widely accepted row crop models. To complete the series, a W-4, W-6 and W-9 were offered as standard-tread tractors. The Standard, or Wheatland, were available beginning in 1940 and remained in production until 1953.

The Model M was manufactured until 1952 with the Super M and MD (Diesel) until 1954.

The Model M was a full-size, 3-plow tractor. It was designed to replace the F-30 as it had many of the specifications in terms of type, size, weight and power. Also comparable was the price. In 1939 the M was sold for \$1,070 with rubber tires.

A 1939 F-30 sold for \$1,100. Much of the similarity ended at this point. A few years later the F-30 was worth \$200 to \$300 and the M at least \$2,200.

The M became one of the best known and best accepted of the International tractors. More than 279,000 were sold by the end of 1952. The first year, 1939 over 6,000 M's were built. The popularity of the Model M was noted in 1951 when more than 43,000 were manufactured.

It was the Models H and M that contributed in large measure to keeping International Harvester as the leading tractor manufacturer. The Model M sales gradually increased as farmers were enlarging the size of their farms and trading 2-plow tractors for the 3-plow power.

The company's reputation of dependability and long life with good maintenance were points not lost to farmers. The cost of the M was only about 20 percent more than the H but with about one-third more power.

Another advantage came when the MD was introduced. This diesel model used about one-third less fuel than the gasoline model. Generally diesel fuel was less expensive.

The Model M had a four cylinder, "I" head, with 3-1/8 inch by 5-1/7 inch bore and stroke rated at 1450 RPM. The early models were equipped with magneto ignition. The tractor weighed about 6,770 lbs. and delivered about 25 in horsepower on the drawbar.

The 1939 M had a 247 CID engine. The Super M in 1952 was increased in engine displacement to 264 CID. It delivered 33 drawbar horsepower and with wheel weights recorded 8,929 lbs.

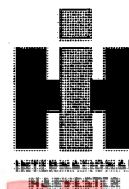
By 1952 the price of a new M was about \$2,500. The MD sold for \$3,200.

The Super M was in production for less than two years. From 1952 to 1954 the company sold more than 65,000 units.

The Super MTA was the last modification of the M. It offered live hydraulics and live power take-off. During the short production span of one year, it is estimated that about 23,000 units were sold.

This model ended production of all M Model Farmalls.

General Sales Bulletin



CLICK ANYWHERE FOR MORE DETAILS

Bulletin No. 6 FEBRUARY 22, 1952

NEW McCormick Farmall Super M with Factory-Installed LP GAS ATTACHMENT



JENSALES.COM
or Call 800-443-0625

- Provides engine, specifically designed for efficient operation on LP gas.
- Construction conforms to all safety codes.
- Vaporizer maintains full fuel flow to carburetor at all times.
- Heavy-duty starter has gear reduction unit for powerful starting action.
- Big-capacity tank holds fuel supply for a day's work.

CLICK ANYWHERE FOR MORE DETAILS

Supplement to Operator's Manual

(1004 296 R1)



Liquefied Petroleum Gas Fuel System

for

McCORMICK

FARMALL

Super M and Super MV

This supplement contains operating, adjusting, and safety precaution instructions for tractors equipped with liquefied petroleum gas fuel systems.

or Call 800-443-0625

INTERNATIONAL HARVESTER COMPANY

180 North Michigan Ave.

Chicago 1, Illinois, U.S.A.

CONTENTS

Description	Page No.
INTRODUCTION	
Delivery report (to be filled in when tractor is delivered)	Inside Front Cover
General	2
Serial numbers, engine and tractor	2
DESCRIPTION	
Before starting your new tractor	8
Instruments and controls	4 to 7
Preparing your tractor for each day's work	9, 10
Views of the tractor	3
OPERATING YOUR TRACTOR	
Driving the tractor	16 to 18
Hitching the tractor to the implement	19, 20
Operating a distillate engine on distillate	13 to 15
Operating a distillate engine on gasoline	15
Operating a gasoline engine	11 to 13
Operating a kerosene engine	15
Operating the belt pulley	18, 19
Operating the Farmall Hydraulic Lift-All system	22
Operating the pneumatic tire pump	19
Operating the power take-off	21, 22
Operating the Remote Control system	22 to 24
LUBRICATION	
General engine lubrication	25
Greasing the front wheels	27
Lubrication guide	29 to 35
Lubricating oil and grease specifications	27, 28
Oil filter	26
MAINTENANCE	
Adjustable wide front axle	64 to 68
Air cleaning system	43, 44
Battery ignition unit	45 to 48
Brakes	61, 62
Carburetor	37 to 39
Clutch	62, 63
Cold weather precautions	39, 40
Cooling system	40 to 43
Front wheels (Super M)	63, 64
Front wheels (Super MV)	69
Fuel strainer	37
Hydraulic Lift-All system	74 to 76
Magneto (tractors so equipped)	48 to 51
Minor engine service operations	60
Periodic inspections	36, 37
Pneumatic tires	72 to 74
Rear axle, 100-inch tread	71
Rear wheels	70, 71
Seat	59
Spark plugs and cables	44, 45
Starting and lighting equipment	52 to 57
Starting engines that have been in storage	81
Storage battery	57 to 59
Storing and housing your tractor	81
Trouble shooting	77 to 80
Valve clearance adjustment	59, 60
SPECIAL EQUIPMENT	82 to 95
SPECIFICATIONS	96, 97
COMPREHENSIVE INDEX	98 to 101

INDEX

Description	Page No.	Description	Page No.
Adjustable front wheels.....	64	Care of tires.....	74
Adjustable wide front axle.....	64 to 68	Chains, tire.....	74
	84	Choke rod.....	5, 12, 14
Adjusting the brakes.....	61, 62	Cleaning the air cleaner.....	43
Adjusting the carburetor.....	38	Cleaning the cooling system.....	41
Adjusting the clutch clearance.....	62, 63	Cleaning the cranking motor commutator.....	55
Adjusting the fan belt.....	42	Cleaning the generator commutator.....	54, 55
Adjusting the generator belt.....	54	Cleaning the spark plugs.....	44
Adjusting the seat.....	59	Cleaning the storage battery.....	58
Adjusting the toe-in.....	67	Clutch.....	16, 18, 21, 32, 62
Adjusting the tread widths (axles).....	66, 71	Clutch pedal.....	5, 16, 62
Adjusting the valve clearance.....	59, 60	Coil, ignition.....	47
Adjusting the wheels.....	64, 69, 70	Cold weather precautions.....	39, 58, 81
Air cleaning system.....	31, 36, 43	Commutator, cranking motor.....	55
Air pipe extension.....	83	Commutator, generator.....	54, 55
Ammeter.....	7, 56, 57	Contents, table of.....	1
Antifreeze solutions.....	39, 40	Cooling system.....	8, 9, 39, 40, 43
Assembling the rear wheel rim.....	70	Crankcase.....	31, 33, 60
Axle extension, rear.....	71, 91	Crankcase breather.....	25
Axles, rear.....	32, 35, 71, 91	Crankcase water drain.....	8, 41
Battery.....	39, 57 to 59	Cranking motor.....	12, 14, 34, 55
Battery ground cable.....	8, 52, 56	Cranking the engine by hand.....	12, 14
Battery ignition unit.....	43 to 48	Cylinder head gasket.....	60
Battery testing.....	38	Cylinder, hydraulic.....	22, 87
Before starting your new tractor.....	8	Dealers, International Harvester.....	2
Belt pulley.....	18, 86	Description.....	3 to 10
Belt pulley control rod.....	6, 18	Detachable seat pad.....	89
Belt speeds.....	19	Differential.....	27, 33
Bracket, tilt-back seat.....	89	Dimensions of tractor.....	97
Brake pedal latch.....	4, 16	Distributor cap, battery ignition.....	34, 45, 46
Brake pedal lock.....	4, 18	Distributor cap, magneto.....	34, 50
Brakes.....	4, 18, 61, 79	Drain plug, oil, engine crankcase.....	33
Break-away coupling.....	10, 88	Drain plug, radiator.....	41
Breaker mechanism, battery ignition.....	46	Drain plug, transmission.....	35
Breaker mechanism.....	49	Draining the cooling system.....	39
Cables, electrical equipment.....	45, 49, 56, 57	Draining the crankcase.....	33
Cables, spark plug.....	45	Drawbar.....	20, 91
Capacity, cooling system.....	8	Driving the tractor.....	16 to 18
Capacity, fuel system.....	9	Dual front steel wheels.....	93
Capacity, Hydraulic Lift-All.....	75, 76	Electrical troubles.....	79
Capacities, lubrication.....	28	Engine hard to start.....	77
Carburetor.....	37 to 39	Engine hour meter.....	88
Carburetor fuel line screen.....	37		

INDEX

Description	Page No.	Description	Page No.
Engine oil.....	27, 28	Hose connections, Remote Control.....	10
Engine serial number.....	2	Hour meter.....	88
Engine specifications.....	96	Hydraulic Lift-All.....	9, 10, 22
Engine speed control lever.....	6, 12 to 14, 16, 21	Hydraulic Lift-All control rod.....	6, 22
Engine speeds.....	6	Hydraulic Remote Control rod.....	6, 22
Exhaust muffler.....	84	Hydraulic Remote Control system.....	9, 22, 86
Exhaust pipe extension.....	84	Idle-adjustment (carburetor).....	38
Extension tires, rear steel wheel.....	94	Ignition cables.....	44, 45, 49
Fan belt.....	36, 42, 43	Ignition coil.....	47
Fenders, rear wheel.....	92	Ignition switch button.....	5, 12, 14
Fifth speed.....	4, 6, 18	Ignition trouble.....	79
Filler caps, gasoline and fuel tanks.....	9	Inflation, tire.....	72
Filling the cooling system.....	39, 41	Installing the battery ignition unit.....	47
Filling the fuel tanks.....	9	Installing the carburetor.....	39
Filter elements.....	25, 26, 33	Installing the cranking motor.....	53
Front axle, adjustable type.....	64, 84	Installing the fan belt.....	43
Front wheels.....	63 to 69	Installing the generator belt.....	54
Fuel.....	8	Installing the magneto.....	51
Fuel screens.....	37	Instruments and controls.....	4 to 7
Fuel strainer.....	37	Introduction.....	2
Fuel system.....	11, 13, 15	Irregular engine operation.....	77
Fuel tank.....	8, 9	Knocking engine.....	77
Fuse.....	53	Lack of power.....	77, 78
Gaps, spark plug.....	44	Latching the brake pedals.....	4, 16
Gauges (meters and indicators).....	7	Lighting switch.....	5, 53
Gear lubricant.....	27	Liquid level in battery.....	58
Gearshift lever.....	6, 12, 14, 16, 18, 21	Liquid weight in tires.....	73
Generator.....	33	Locking the brakes.....	4, 18
Generator belt.....	54	Low or high oil pressure.....	78
Generator commutator.....	54, 55	Low-low speed attachment.....	91
Governor.....	6, 77, 78	Lubricating oil and grease specifications.....	27, 28
Grease specifications.....	27, 28	Lubrication, engine and chassis.....	8
Greasing the front wheels.....	27, 93	Lubrication fitting grease.....	25 to 35
Hand-cranking the engine.....	12, 14	Lubrication, front wheel.....	27, 93
Headlights (sealed beam).....	53, 56	Lubrication guide.....	29 to 45
Heat indicator.....	7, 13, 15	Lubrication table.....	28
High altitude pistons.....	83	Lugs, steel wheel.....	8, 94
Hitching the tractor.....	19, 20	Magneto.....	33, 39, 48 to 51
Hose connections, air cleaner to carburetor.....	44	Magneto impulse coupling.....	33, 39, 48
		Manifold heat control.....	14, 15

INDEX

Description	Page No.	Description	Page No.
Manifold heat control lever.....	7	Radiator shutter control crank.....	9
Minor engine service operations.....	60	Raising and lowering implements.....	22, 23
Mounting tires on the rims.....	73	Rear axle.....	32, 34, 91
Muffler, exhaust.....	84	Rear axle extension.....	91
Oil dilution.....	27, 78	Rear light (sealed beam).....	53
Oil filter.....	23, 26, 35	Rear light and tail light.....	90
Oil pressure indicator.....	7, 13, 15	Rear wheels.....	8, 70, 94
Oil pump.....	25	Regulator, voltage.....	53, 54
Operating a distillate engine.....	13 to 15	Relining the brakes.....	79
Operating a gasoline engine.....	11 to 13	Remote Control cylinder.....	9, 22
Operating a kerosene engine.....	15	Remote Control system.....	9, 22, 86
Operating the belt pulley.....	18, 19	Removing the battery ignition unit.....	47
Operating the brakes.....	4, 18	Removing the carburetor.....	38, 39
Operating the Hydraulic Lift-All.....	22	Removing the cranking motor.....	55
Operating the Hydraulic Remote Control.....	22 to 24	Removing the fan belt.....	42
Operating the pneumatic tire pump.....	19, 72	Removing the generator belt.....	54
Operating the power take-off.....	21, 22	Removing the magneto.....	50
Operating your tractor.....	11 to 24	Rust prevention.....	41
Ordering parts.....	2	Sandblasting the spark plugs.....	44
Overheated engine.....	78	Seat, adjusting the.....	59
Overloading the tires.....	73	Seat bracket, tilt-back.....	89
Overtires, rear steel wheel.....	94	Seat, de luxe upholstered.....	89
Pad, seat.....	89	Seat pad, detachable.....	89
Periodic inspections.....	36, 37	Seat springs.....	89
Piston displacement.....	2	Sediment bowl (fuel strainer).....	47
Pistons (high altitude).....	85	Serial numbers, engine and tractor.....	2
Pneumatic tire pumps.....	72, 92	Service meter.....	88
Pneumatic tires.....	8, 72, 80	Shipping oil.....	8
Points, ignition.....	46, 49	Shipping the tractor.....	72
Polarizing the generator.....	54	Shut-off valves, gasoline and fuel.....	12, 13, 15
Power take-off.....	20, 21, 90	Single front wheel.....	63, 93
Power take-off shifter rod.....	6, 21	Skid rings, front wheel.....	93
Pre-Cleaner.....	44, 85	Sludge in cooling systems.....	41
Preparing your tractor for each day's work.....	9, 10	Spade lugs, rear steel wheel.....	8, 94
Pre-Screener.....	43, 85	Spark arrester.....	36, 85
Preservative oil.....	8	Spark coil.....	47
Pulley, belt.....	18, 86	Spark plug pumps.....	72, 92
Putting liquid into tire tubes.....	73	Spark plugs.....	44, 45
Radiator.....	8, 40 to 42	Special equipment index.....	82, 83
Radiator drain.....	8, 41	Special equipment instructions.....	4
Radiator filler cap.....	40	Specific gravity of battery.....	58
Radiator, filling the.....	8, 40, 41	Specifications, lubricant.....	27, 28
Radiator shutter.....	11, 13, 14	Specifications, tractor.....	96, 97
	15, 84	Speeds, engine.....	6
		Stalled engine.....	5
		Starting a distillate engine.....	14

INDEX

Description	Page No.	Description	Page No.
Starting a gasoline engine	12	Toe-in, front wheel	67
Starting a kerosene engine	15	Towing the tractor	17
Starting and lighting equipment	52 to 57	Tractor serial number	2
Starting a stored engine	81	Transmission	27, 35, 80
Starting switch control rod	5, 12, 14	Trouble shooting	77 to 80
Starting the tractor	16	Upholstered seat, de luxe	89
Static electricity	74	Using too much fuel	79
Steel wheels, front and rear	8, 93, 94	Using too much oil	78
Steering mechanism	27, 32, 80	Valve clearance adjustment	59, 60
Steering the tractor	16	Valve stem mounting cones	73
Steering wheel	17	Vent plug, thermostat	8, 41
Stopping a distillate engine	15	Views of the tractor	3
Stopping a gasoline engine	13	Voltage regulator	53, 54
Stopping a kerosene engine	15	Water for cooling system	8
Stopping the tractor	18	Water pump	31, 33, 43
Storage battery	39, 57 to 59	Wheelbase positions	65, 66
Storing and handling fuel	8, 9	Wheel weights	73, 95
Storing and housing your tractor	81	Wheel weights, liquid	73
Storing tires	74	Wheels	8, 27, 63 to 69
Swinging drawbar	32, 91	Wheels, front tread	63 to 68
Table of contents	1	Wheels, greasing the front	27, 93
Temperature gauge (heat indicator)	7, 13, 15	Wheels, rear tread	70, 71
Terms of location	2	Wheels, special	8, 93, 94
Thermostat	41	Wheels, steel	8, 93, 94
Thermostat vent plug	8, 41	Wide front axle (Super M), special	64 to 68
Tilt-back seat bracket	89	Wiring diagram (battery ignition)	56
Timing the distributor (battery ignition)	47, 48	Wiring diagram (magneto)	56, 57
Timing the magneto	51	Wiring, distributor (battery ignition)	45
Tire chains	74	Wiring, distributor (magneto)	49
Tire pressure table	72	Wiring, electrical equipment	45, 49, 56, 57
Tire pumps, pneumatic	72, 92		
Tire traction	73		
Tires, pneumatic	8, 72		



***Supplement to
Operator's Manual***

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

**Liquefied
Petroleum Gas
Fuel System**

for

McCORMICK

FARMALL 400

Tractors

JENSALES.COM

This supplement contains operating, adjusting, and safety precaution instructions for tractors equipped with liquefied petroleum gas fuel systems.

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

CLICK ANYWHERE FOR MORE DETAILS

Index to reference numbers shown in wiring diagrams (Illusts. 12 and 13).

Ref. No.	Description	Ref. No.	Description
1	Headlight.	29	Strap - battery to ground.
2	Harness - headlight cable.	30	Clip - part of shroud.
3	Clip - on fuel tank angle mounting bolt, left side, rear.	31	Clip - part of shroud.
4	Clip - on fuel tank angle mounting bolt, left side, center.	32	Clip - on battery box, right side.
5	Lamp - instrument panel.	33	Clip - on battery box left side.
6	Charge indicator.	34	Cable - ignition and starting switch "IGN" terminal to coil (black).
7	Dust plug.	35	Cable - regulator "F" terminal to generator "F" terminal (yellow).
8	Switch, ignition and starting.	36	Cable - regulator "GEN" terminal to generator "A" terminal (light blue).
9	Lighting switch.	37	Cable - ignition and starting switch "SOL" terminal to solenoid switch (orange).
10	Fuse housing.	38	Cable - charge indicator to solenoid switch (red).
11	Clip - on rear valve cover stud.	39	Cable - charge indicator to regulator "BAT" terminal (gray).
12	Clip - on front valve cover stud.	40	Cable - ignition and starting switch "BAT" terminal to regulator "I." terminal (light green).
13	Cable harness.	41	Cable - lighting switch to break-away connector (black).
14	Generator	42	Cable - break-away connector to ground (pink).
15	Clip - on generator bracket front mounting bolt.	43	Cable - lighting switch to combination rear light and tail light (black).
16	Clip - on distributor bracket top left mounting bolt.	44	Cable - combination rear light and tail light to ground (pink).
17	Battery ignition unit.	45	Cable - fuse housing to ignition and starting switch "BAT" terminal.
18	Clip - on air cleaner mounting bracket upper left front mounting bolt.	46	Cable - fuse housing to lighting switch.
19	Clip - on air cleaner mounting bracket lower left rear mounting bolt.	47	Cable - lighting switch to headlight (black).
20	Clip - on fuel tank angle mounting bolt, left side, front.	48	Cable - headlight to ground (pink).
21	Cranking motor.	49	Cable - instrument panel lamp to lighting switch.
22	Cable - battery to solenoid switch.		
23	Voltage regulator.		
24	Harness - break-away connector socket cable.		
25	Socket, electrical break-away connector.		
26	Clip - on rear light mounting bracket, upper bolt.		
27	Light - combination rear light and tail light.		
28	Battery.		

CLICK ANYWHERE FOR MORE DETAILS