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Operator's Manual

UB

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MM-O-UB

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4-UB

TRACTORS

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FOREWORD

This manual has been prepared as a guide to the owner and operator of the Model "UB" tractors.

In order to attain the maximum life and efficiency from your tractor we suggest reading this manual thoroughly and following all instructions carefully.

For any repairs or repair parts, it is recommended that you consult your MM Dealer as only he has the genuine MM parts.

For your convenience, space has been made available on page two to insert the model and serial numbers for both the engine and tractor. When ordering parts, always give your dealer this information as it will aid him in supplying you with the correct parts.

TABLE OF CONTENTS

Specifications.....	3
Lubrication.....	5
Controls.....	8
Operation.....	11
Maintenance.....	17

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SPECIFICATIONS

IGNITION

Type.....	Battery - 12 Volt
Firing Order.....	1 - 3 - 4 - 2
Distributor.....	Delco-Remy Model 1111748
Spark Plugs.....	Champion or AC
Spark Plug Gap.....	.022" - .025"
Spark Plug Size.....	
LP-Gas.....	14 MM
Gasoline.....	18 MM
Tractor Fuel.....	7/8 inch

POWER TAKE-OFF (Live and Standard)

Shaft Speed.....	585 RPM
Shaft Spline Size.....	1-3/8" spline

STEERING GEAR

Types "U", "N" and "E".....	Worm and sector
-----------------------------	-----------------

TRANSMISSION SPEEDS-Miles Per Hour based on 12x38 pneumatic tires

1st.....	2.7
2nd.....	3.9
3rd.....	4.5
4th.....	6.5
5th.....	15.1
Reverse.....	2.1

TURNING RADIUS

Types "U" and "N".....	8-1/2 ft.
Type "E".....	12 ft.

Weight of tractor when equipped with 12x38 pneumatic tires.

Type "E".....	5500 pounds
Types "U" and "N".....	5300 pounds

Weight of tractor when equipped with steel wheels and lugs.....

5800 pounds

WHEEL BASE

Types "U" and "N".....	88 inches
Type "E".....	96 inches

WIDTH OVERALL

Types "U" and "E".....	83 inches
Type "N".....	96 inches

MINNEAPOLIS-MOLINE MODEL "UB" TRACTORS

THE COOLING SYSTEM IS THE PRESSURE TYPE. IT IS BUILT TO RELIEVE AT APPROXIMATELY SIX POUNDS PRESSURE. CHECK THE GASKET AT REGULAR INTERVALS AND REPLACE IT AS OFTEN AS NECESSARY. FIG. 9.



FIG. 9 PRESSURE CAP

ALWAYS MAKE CERTAIN THAT THE RADIATOR CAP IS ON TIGHT. REMOVE THE RADIATOR CAP CAREFULLY, TURNING THE CAP SLOWLY TO THE FIRST NOTCH WILL RELIEVE THE PRESSURE.

ONLY PERMANENT TYPE ANTI-FREEZE SOLUTIONS CAN BE USED IN THIS TRACTOR. THE OPERATING TEMPERATURE OF THE ENGINE IS TOO HIGH FOR THE USE OF ALCOHOL SOLUTIONS.

BAYONET OIL GAGE

THE BAYONET OIL GAGE IS ON THE LEFT SIDE OF THE CRANKCASE. CHECK THE OIL LEVEL BEFORE STARTING THE ENGINE. IT SHOULD BE TO THE FULL MARK. ALWAYS KEEP THE OIL LEVEL BETWEEN THE "L" AND "H" MARKS ON THE BAYONET GAGE, AND CHECK OIL TWICE DAILY.

BREATHERS

THERE ARE TWO BREATHERS ON THE TOP OF THE ENGINE AND THEY PROTRUDE THROUGH THE HOOD. REMOVE AND CHECK TO SEE THAT THEY HAVE NO OBSTRUCTIONS AND ARE OILED.

AIR CLEANER

REMOVE AIR CLEANER CUP AND SEE THAT IT IS FILLED TO THE LEVEL MARK WITH ENGINE OIL. FIG. 10. CHECK THE INLET CAP TO SEE THAT IT IS NOT CLOGGED.



FIG. 10 AIR CLEANER CUP

HYDRAULIC RESERVOIR

REMOVE THE FILLER PLUG ON THE RESERVOIR AND SEE THAT THE OIL LEVEL IS UP TO THE FILLER PLUG HOLE. USE ONLY GENUINE MM HYDRAULIC OIL IN THIS SYSTEM AND FILL ONLY WHEN THE JACK IS CONTRACTED. FIG. 11.

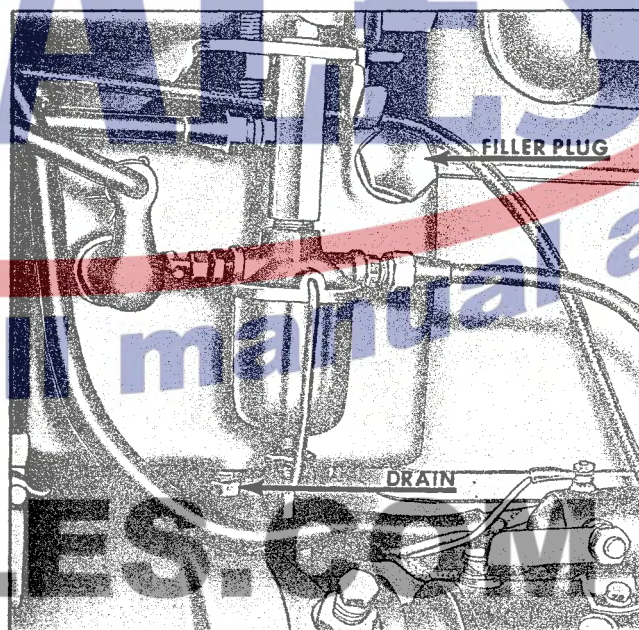


FIG. 11 HYDRAULIC RESERVOIR

TRANSMISSION

REMOVE THE LEVEL PLUG ON THE RIGHT SIDE OF THE TRANSMISSION CASE AND SEE THAT THE OIL LEVEL IS UP TO THE HOLE. SEE "LUBRICATION" FOR CORRECT PROCEDURE IN SERVICING THE TRANSMISSION.

STEERING COMPARTMENT

REMOVE THE FILLER PLUG AND MAKE CERTAIN

MINNEAPOLIS-MOLINE MODEL "UB" TRACTORS

THE HYDRAULIC PUMP IS ENGINE DRIVEN AND THE SYSTEM WILL OPERATE AT ANY TIME THE ENGINE IS RUNNING. TO FORESTALL UNDUE STRAIN ON THE PUMP, NEVER HOLD THE CONTROL LEVER IN AN OPERATING POSITION. IT WILL STAY THERE UNTIL THE JACK HAS COMPLETED ITS STROKE AND THEN RETURN TO NEUTRAL AUTOMATICALLY.

WHEN THE JACK IS MOUNTED ON THE LIFTING ROLL, DEPTH CONTROL IS REGULATED BY MEANS OF VARIOUS CONTROL LEVER SETTINGS ON THE QUADRANT. MAXIMUM IMPLEMENT DEPTH IS OBTAINED WHEN THE CONTROL LEVER IS SET AT NOTCH NO. 9, FIG. 50.

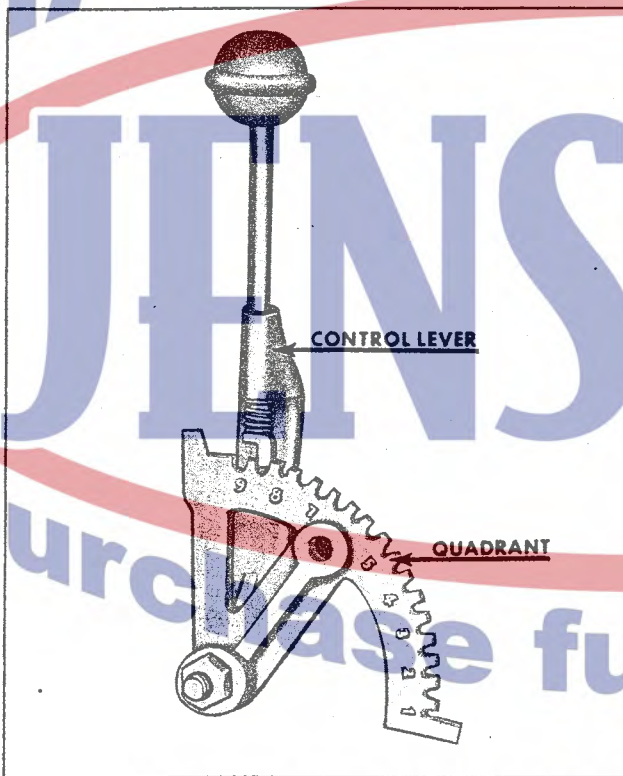


FIG. 50 HYDRAULIC LIFT CONTROL LEVER

TO DETERMINE WHETHER THE HYDRAULIC JACK ON THE MODEL "UB" TRACTOR IS EXTENDING ITS FULL STROKE, PLACE THE CONTROL LEVER IN THE NUMBER 9 POSITION ON THE CONTROL LEVER QUADRANT AND EXTEND THE JACK AS FAR AS IT WILL GO. THIS DISTANCE SHOULD MEASURE 8 INCHES ON THE PISTON ROD OF THE JACK. IF THE JACK DOES NOT EXTEND 8 INCHES, THE CONTROL LINKAGE SHOULD BE LENGTHENED. THIS ADJUSTMENT SHOULD BE MADE AS FOLLOWS:

DISCONNECT THE ADJUSTING CLEVIS FROM THE CONTROL LINKAGE, FIG. 51.



FIG. 51 ADJUSTING CLEVIS

TURN THE CLEVIS TO THE LEFT ON THE ROD TO WHICH IT IS ATTACHED TO LENGTHEN THE CONTROL LINKAGE. REINSTALL CLEVIS ON CONTROL LINKAGE. PLACE CONTROL LEVER ON NUMBER 9 POSITION ON QUADRANT AND AGAIN EXTEND JACK AS FAR AS IT WILL GO. IF THE JACK DOES NOT YET EXTEND 8 INCHES AS MEASURED ON THE PISTON ROD, REPEAT ADJUSTMENT AS OUTLINED ABOVE UNTIL PROPER LENGTH OF STROKE IS ACHIEVED. THIS ADJUSTMENT APPLIES ONLY WHEN THE JACK IS INSTALLED ON THE LIFTING ROLL.

IF DEPTH CONTROL IS NEEDED ON PULL BEHIND IMPLEMENTS, IT CAN BE ACCOMPLISHED BY USING COLLAR STOPS PLACED ON THE PISTON ROD OF THE JACK. THE STOPS ARE MADE IN 1, 1-1/4 AND 1-1/2 INCH WIDTHS. ANY COMBINATION OF THESE SIZES WILL PROVIDE A WIDE RANGE OF DEPTH CONTROL FIG. 52.



FIG. 52 COLLAR STOP

CLICK ANYWHERE FOR MORE DETAILS

INDEX

Controls.....	8-10
Ammeter.....	8
Belt Pulley Clutch.....	10
Brake Pedals.....	9
Choke Button.....	9
Clutch Pedal.....	9
Fuse Cap.....	8
Gear Shift Lever.....	9
Hydraulic Control Lever.....	9
Ignition and Light Switch.....	8
Oil Pressure Gage.....	9
Power Take-Off.....	10
Starter Button.....	8
Temperature Gage.....	8
Throttle Lever.....	9
Lubrication.....	5-7
Air Cleaner and Breathers.....	5
Clutch Collar.....	7
Distributor.....	7
Engine Oil.....	5
Fan Hub.....	7
Front Wheels.....	5
Generator.....	7
Lubrication Chart.....	6
Oil Filter.....	7
Starting Motor.....	7
Steering Compartment.....	5
Transmission Oil.....	5
Water Pump.....	7

CLICK ANYWHERE FOR MORE DETAILS

INDEX

Maintenance.....	17-32
Air Cleaner.....	18
Adjustable Seat.....	31
Battery, Starter and Generator.....	20
Brakes.....	24
Breathers.....	18
Carburetor.....	19
Clutch.....	24
Cooling System.....	27
Distributor.....	22
Drawbar.....	30
Exhaust Stack Cover.....	31
Fan and Generator Belts.....	20
Figuring Pulley Sizes.....	32
Front Wheels.....	25
Fuel Filter.....	19
Governor.....	19
Hydraulic System.....	28
Mounting Tires.....	31
Oil Filter.....	17
Oil Pressure Regulator.....	17
Oil Pump Sump.....	17
Power Take-Off.....	28
Spark Plugs.....	23
Timing the Engine.....	22
Tire Care.....	30
Valve Clearance Adjustment.....	21
Wheel Weights.....	25
Wheel Widths.....	26
Winter Storage.....	31

CLICK ANYWHERE FOR MORE DETAILS

INDEX

Operation.....	11-16
Air Cleaner.....	12
Bayonet Oil Gage.....	12
Breathers.....	12
Cooling System.....	11
Cylinders.....	11
Exhaust Manifold Heat Control.....	14
Fluid Capacities for Rear Tires.....	11
Fuel System.....	13
Hydraulic Reservoir.....	12
Pneumatic Tires.....	11
Starting Gasoline Engine.....	13
Starting LP-Gas Engine.....	14
Starting Tractor Fuel Engine.....	13
Steering Compartment.....	12
Stopping Gasoline Engine.....	13
Stopping LP-Gas Engine.....	16
Stopping Tractor Fuel Engine.....	14
Transmission.....	12

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