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MINNEAPOLIS-MOLINE COMPANY

MINNEAPOLIS 1, MINNESOTA, U. S. A.

MINNEAPOLIS MOLINE MODEL "ZA" TRACTOR

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MINNEAPOLIS MOLINE MODEL "ZA" TRACTOR

GENERAL DATA

CAPACITIES (U.S. MEASURE)

AIR CLEANER CUP.....	156 GAL.
CRANKCASE (ENGINE).....	7 QT.
FUEL TANK.....	19 GALS.
GASOLINE STARTING TANK (LOW COMPRESSION ONLY).....	7/8 GAL.
STEERING GEAR COMPARTMENT (ZAU-ZAN-ZAE).....	1 PT.
TRANSMISSION AND DIFFERENTIAL CASE.....	7 GAL.
WATER COOLING SYSTEM.....	15 QT.

ENGINE

MAKE OWN.....	MODEL 206B-4
CYLINDERS.....	4
BORE.....	3-5/8
STROKE.....	5"
PISTON DISPLACEMENT.....	206 CU. IN.
ENGINE SPEED (GOVERNED UNDER LOAD).....	1500 R.P.M.
VALVE CLEARANCE (ENGINE AT OPERATING TEMP.)	
EXHAUST VALVE.....	.012
INTAKE VALVE.....	.010

AIR CLEANER

MAKE.....	DONALDSON
-----------	-----------

CARBURETOR

MAKE.....	MARVEL SCHEBLER
MODEL.....	TSX-97

ELECTRICAL EQUIPMENT

GENERATOR

MAKE.....	DELCO REMY
MODEL NUMBER.....	1101398
VOLTS.....	6

CURRENT-VOLTAGE REGULATOR

MAKE.....	DELCO REMY
MODEL NUMBER.....	1118305

STARTING MOTOR

MAKE.....	DELCO REMY
MODEL NUMBER.....	1107905

DISTRIBUTOR

MAKE.....	DELCO REMY
MODEL NUMBER.....	1111711

IGNITION

FIRING ORDER.....	1-3-4-2
BATTERY IGNITION 6 VOLTS.....	DELCO REMY

SPARK PLUGS

SIZE.....	18MM
MM PART NUMBER - HIGH COMPRESSION HEAD.....	RE228C
MM PART NUMBER - LOW COMPRESSION HEAD.....	RE228

SPARK PLUG GAP

H.C. HEAD.....	.023 - .027
L.C. HEAD.....	.028 - .032

MINNEAPOLIS MOLINE MODEL "ZA" TRACTOR

FUNCTION OF INSTRUMENTS AND CONTROLS

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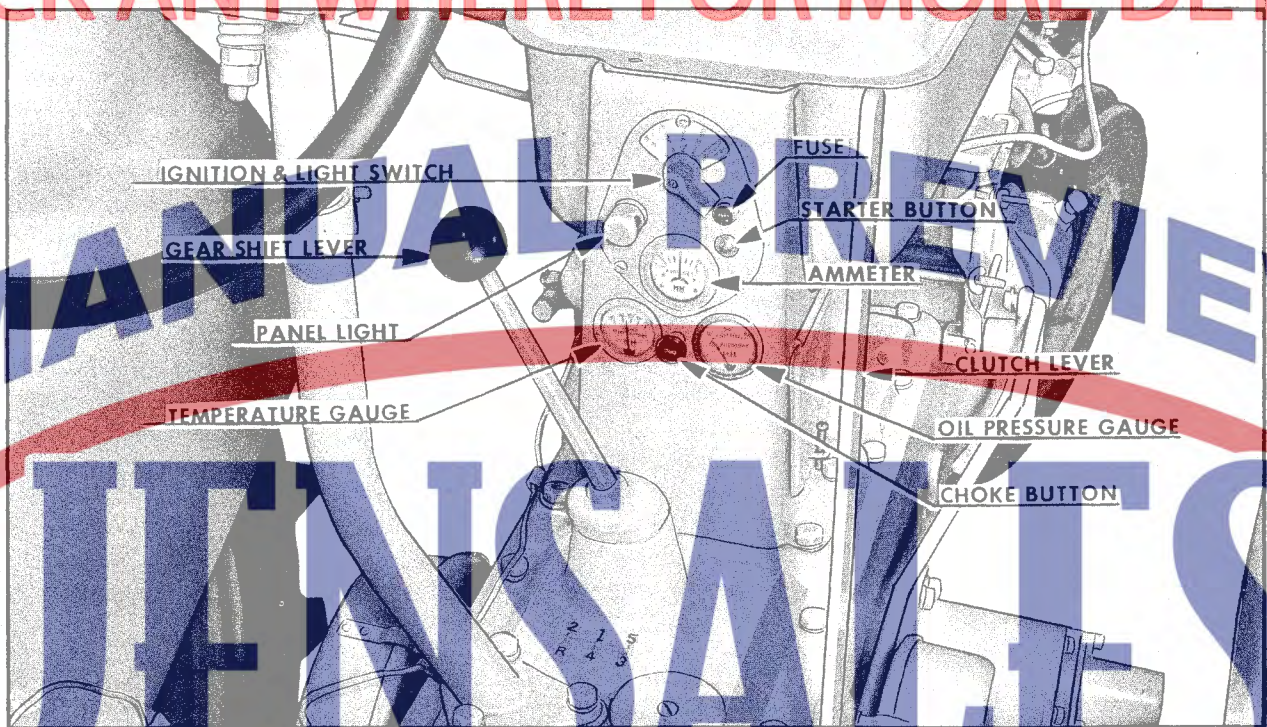


FIG. 1. INSTRUMENT PANEL AND CONTROLS

AMMETER

THIS INSTRUMENT INDICATES THE ACTIVITY OF THE GENERATOR AND LIGHTING SYSTEM.

CHOKE BUTTON

WHEN THIS BUTTON IS PULLED OUT, THE AMOUNT OF AIR SUPPLIED TO THE CARBURETOR IS REDUCED IN ORDER TO PROVIDE A RICHER MIXTURE FOR STARTING PURPOSES. IT CAN BE PULLED OUT PARTIALLY TO ALLOW THE ENGINE TO RUN SMOOTHLY DURING THE WARM-UP PERIOD. AFTERWARD, IT SHOULD BE PUSHED IN ALL THE WAY.

STARTING MOTOR BUTTON

THE STARTING MOTOR IS PUT INTO OPERATION BY PRESSING THE BUTTON. WHEN THE ENGINE HAS STARTED RELEASE THE BUTTON IMMEDIATELY.

IGNITION AND LIGHT SWITCH

THIS SWITCH CONTROLS BOTH THE IGNITION CIRCUIT AND THE LIGHTS. EITHER CIRCUIT CAN BE CONTROLLED INDIVIDUALLY, BUT AT CERTAIN POSITIONS OF THE SWITCH, BOTH CIRCUITS ARE IN OPERATION.

WHEN THE SWITCH IS TURNED TO THE LEFT, BOTH THE IGNITION AND LIGHTS ARE IN THE OFF POSITION. TO TURN THE IGNITION TO THE ON POSITION, TURN THE SWITCH ONE CLICK TO THE RIGHT. TURNING THE SWITCH ONE MORE CLICK TO THE RIGHT TURNS THE LIGHTS ON BRIGHT AND LEAVES THE IGNITION ON. THE NEXT POSITION TO THE RIGHT IS THE DIM POSITION FOR THE LIGHTS AND ALSO LEAVES THE IGNITION ON. THE FIFTH AND LAST POSITION LEAVES THE LIGHTS ON ONLY. (SEE DIAGRAM ON DASH.)

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