AMT600, AMT622 and AMT626 All Material Transporters

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For complete service information also see:

John Deere K Series Air Cooled Engines CTM5

John Deere Horicon Works
TM1363 (15AUG91)

LITHO IN U.S.A.
ENGLISH

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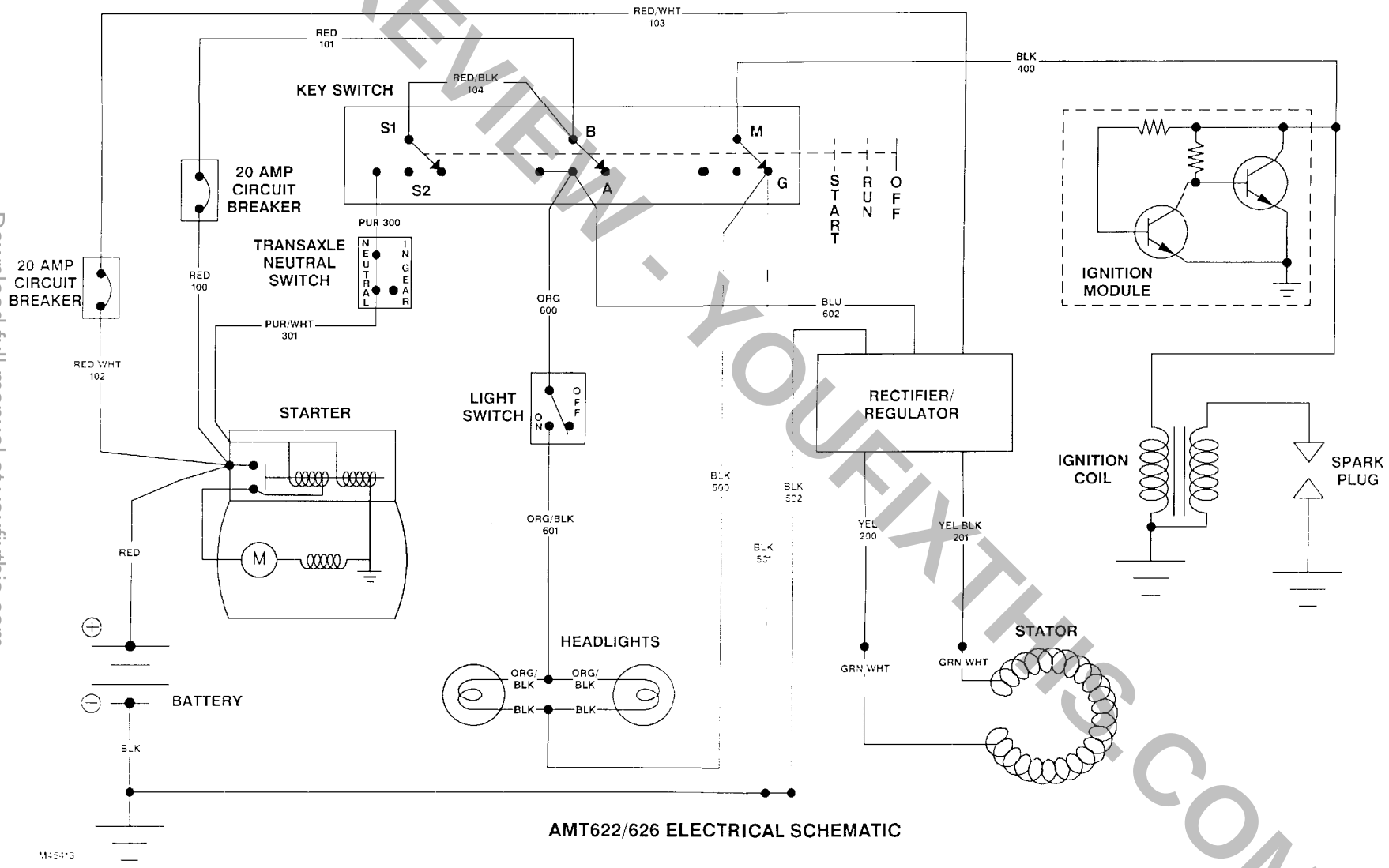
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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

TM1363-19-15AUG91

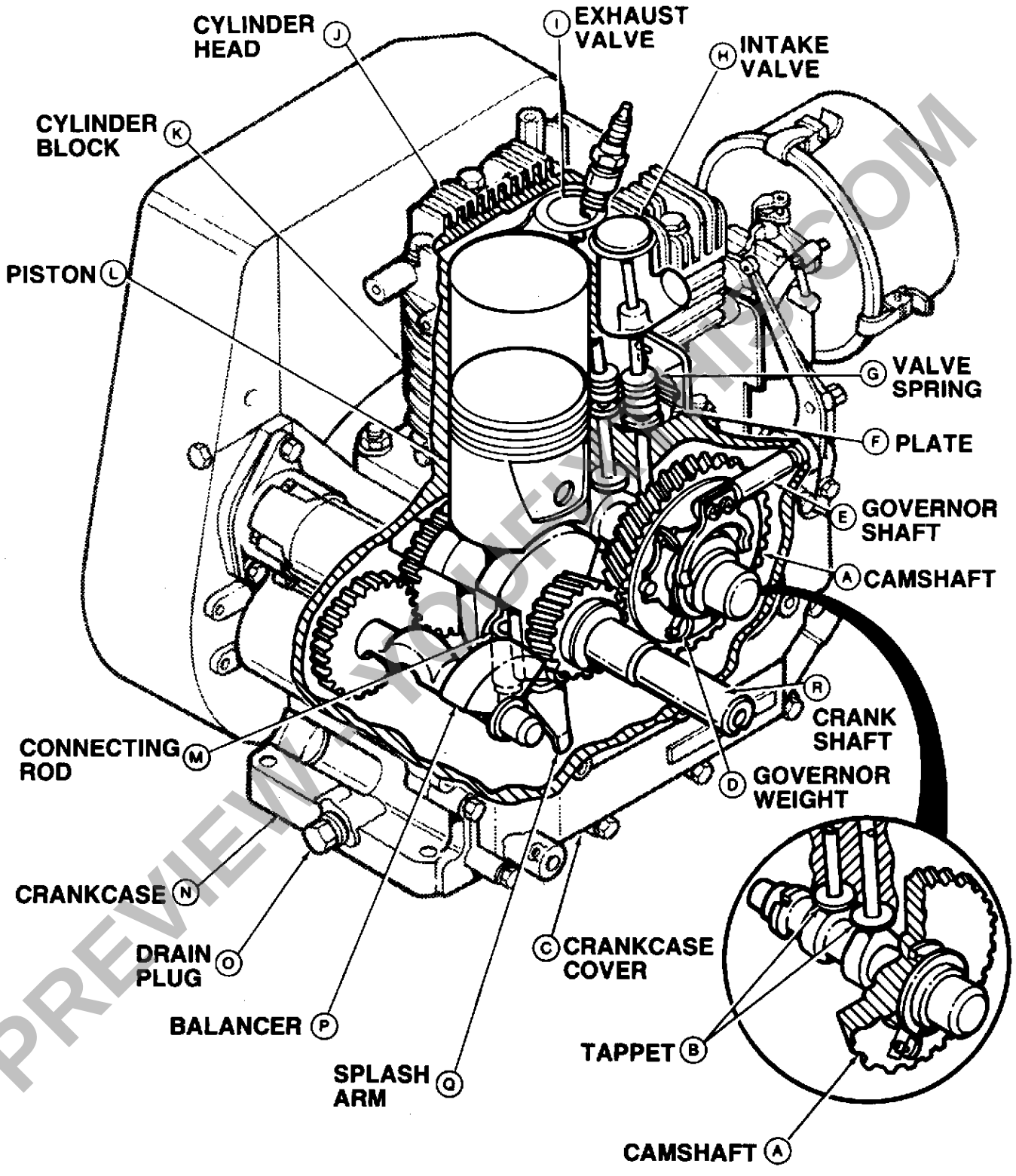
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AMT622/626 ELECTRICAL SCHEMATIC

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M45504 **KF82D/FZ340D ENGINE INTERNAL COMPONENTS**

M45504 -19-14MAR90

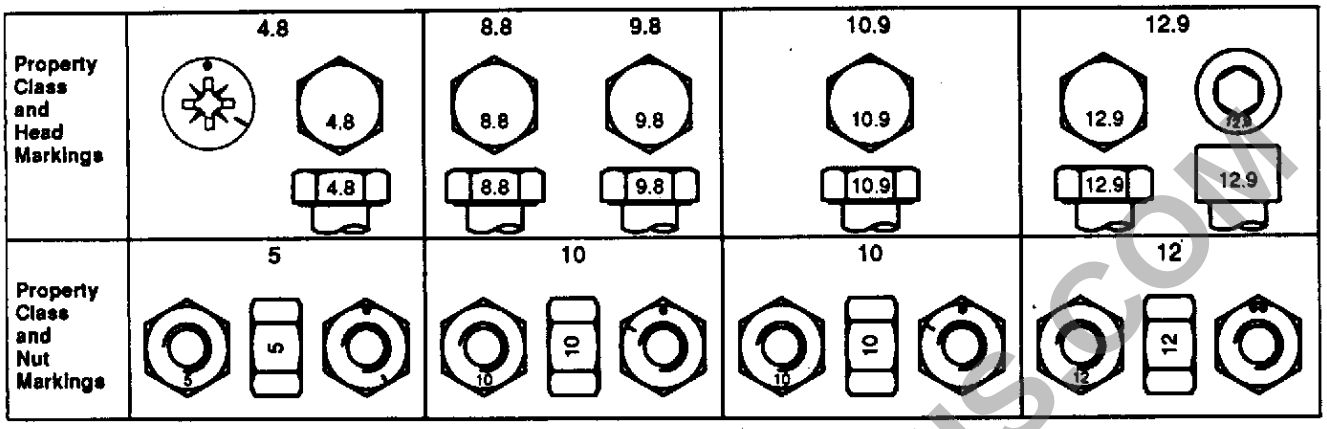
220 05 3

MX,22005FD,3 -19-09AUG91

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METRIC BOLT AND CAP SCREW TORQUE VALUES



TS1163 -19-04MAR91

Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]	
	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	225	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	220	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

[a] "Lubricated means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry means plain or zinc plated without any lubrication.

DX,TORQ2 -19-05JUN91

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DISCONNECT BATTERY

CAUTION: Help prevent bodily injury due to falling cargo box, install support rod when raised.

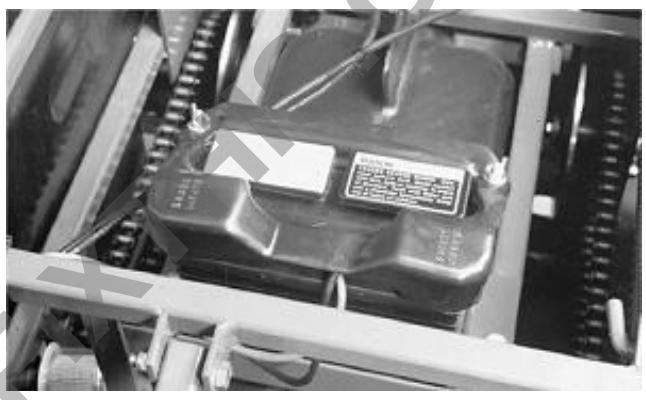
1. Stop engine.

2. Raise box and install rod (A).

3. Remove nuts and protective cover.



-UN-28JUN89
W14980



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W14700

WXA,020005,A -19-09MAY90

REMOVE ENGINE

1. Disconnect battery ground cable (A).

2. Remove seat shroud on AMT600 or seat from AMT622/AMT626. (See Section 80, Group 05 or 10.)

3. Remove drive clutch cover.

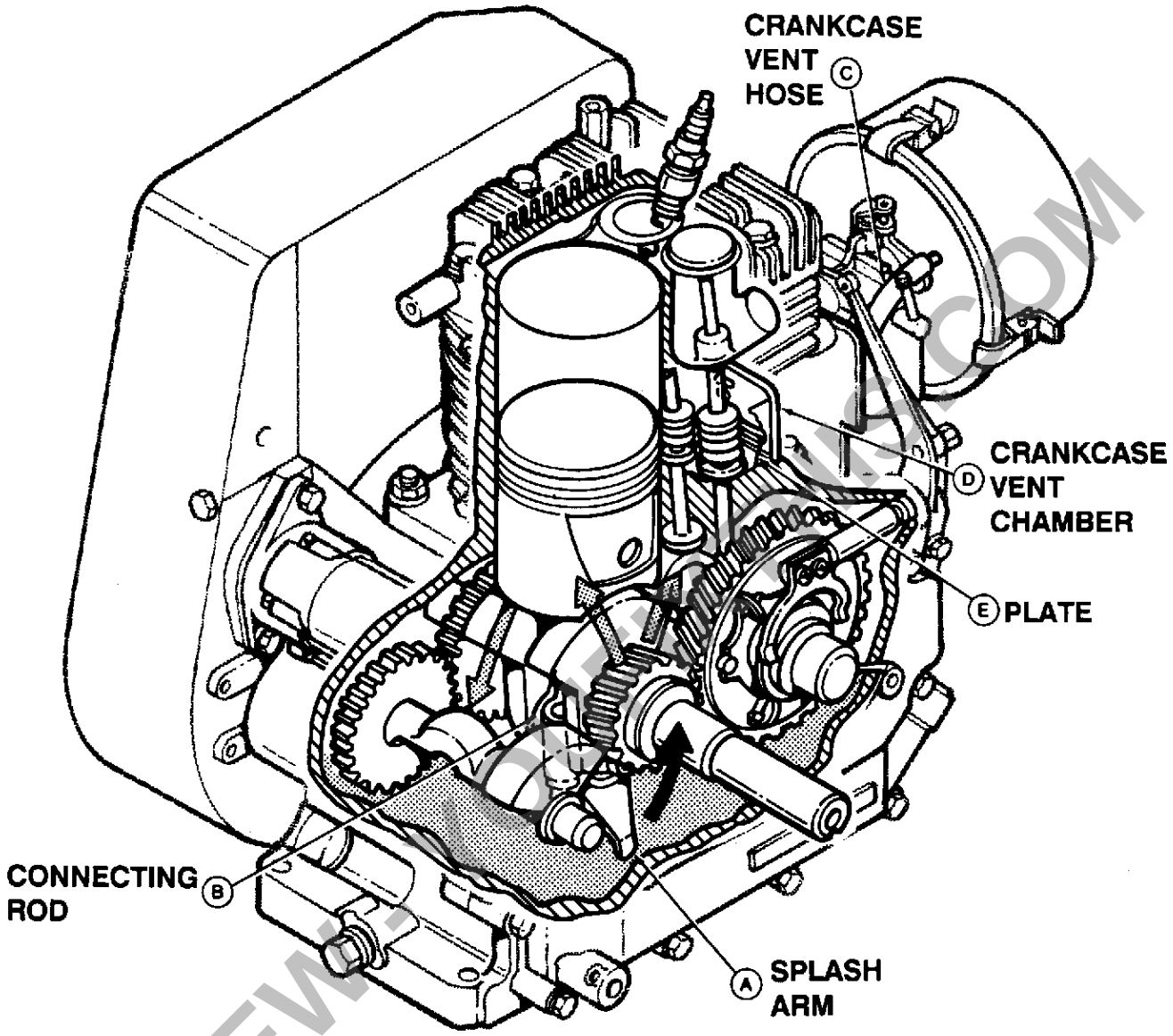


-UN-28JUN89
W14698

MX,2005FD,A1 -19-31JUL91

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M45508 **LUBRICATION/CRANKCASE VENT SYSTEM**

A—Splash Arm **C—Crankcase Vent Hose** **D—Crankcase Vent Chamber** **E—Plate**
B—Connecting Rod

Slide M45508

220
10
3

MX,22010FD,3 -19-29AUG91

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ENGINE DIAGNOSTIC INFORMATION

The diagnostics in this group test components related to a specific problem. Select the appropriate symptom heading that applies to your problem and follow the test procedures under that heading. The symptom headings are:

—Engine cranks but will not start
—Engine flooding
—Lack of fuel in carburetor
—Engine stops when hot
—Engine surging
—Engine backfires through carburetor
—Engine backfires through muffler when shut OFF
—Engine misses
—Engine loses power or runs rough when hot
—Engine has black exhaust smoke
—Engine has blue exhaust smoke or oil in air cleaner
—Engine uses too much oil

The diagnostic procedure lists:
—Test conditions
—Test sequence
—Test/check point
—Normal reading
—Checks or test to perform if reading is not normal

When performing the test or check, be sure to follow the test conditions and sequence carefully. The middle “NORMAL” column gives the normal reading or condition that should be obtained when performing the test or check. If the results of the test or check are not normal, perform the test, check, or adjustment listed in the third “IF NOT NORMAL” column to repair the malfunction. The detailed tests or adjustments referred to in the “IF NOT NORMAL” column are located at the end of this group.

MX,22015FD,1 -19-09MAY90

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MACHINE SPECIFICATIONS - AMT600

ENGINE

Horsepower	6.3 kW (8.5 hp)
Manufacturer	Kawasaki
Cylinders	1
Strokes/Cycle	4
Cooling	Air
Air Cleaner	Semi-Wet
Displacement	341 cc (20.9 cu in)
Compression Ratio	6.0 : 1

ENGINE SPEEDS

Slow Idle (no load)	1300 rpm
Fast Idle (no load)	4000 rpm

CAPACITIES

Fuel Tank	18 L (4.75 gal)
Crankcase	1.2 L (1.3 qt)
Transaxle	2.3 L (2.5 qt)

ELECTRICAL SYSTEM

Alternator	11 amps
Battery Cold Capacity at 0˚F (-18˚C)	255 amps
Battery	BCI-U-1 12 V
Regulator	Solid State

TRANSMISSION

Type	Belt-Driven Torque Converter With Gear-Driven Transaxle
Speeds	Forward—Neutral—Reverse

TRAVEL SPEEDS

Forward	26 km/h (16 mph)
Reverse	26 km/h (16 mph)

BRAKE . . . . . **Mechanically Operated Disc**

DIMENSIONS

Width Overall	1300 mm (51 in)
Height Overall	1040 mm (41 in)
Length Overall	2590 mm (102 in)
Ground Clearance	250 mm (10 in)

TIRES

Front	22.5 x 10.00—8
Rear	25 x 12.00—9

INFLATION PRESSURE

Front/Rear	34—41 kPa (5—6 psi) (0.34—0.41 bar)

NET WEIGHT (approx.) . . . . . **363 kg (800 lb)**

PAYLOAD CAPACITY . . . . . **272 kg (600 lb)**

TOWING CAPACITY . . . . . **454 kg (1000 lb)**

Specifications and design subject to change without notice.

WX,622,SPEC,A -19-09MAY90

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BEFORE YOU START

This operational checkout procedure is designed for you to perform a quick check of the machine in a step-by-step method.

These procedures also provide you with a method to evaluate trade-in equipment and perform an annual checkout.

A majority of typical machine problems can be resolved using the operational checkout and your ability to look, listen, and feel.

Perform these checks on a level surface. No special tools or equipment are required.

Begin with step one and read from left to right. Read the step completely before performing the check.

Do the entire procedure before continuing onto another section and correction of the indicated problem. Once the machine checkout is complete, turn to the appropriate sections in this manual.

MX,21010FD,A1 -19-01AUG91

❶ **HEADLIGHT CHECK** Move shift lever to N (neutral) position. Turn key to RUN position.	 RW12356 -UN-21NOV88	Pull headlight knob out. *LOOK: Headlight must be ON.*	**OK:** GO TO ❷ **NOT OK:** GO TO SECTION 240, GROUP 15. MX,21010FD,A2 -19-09MAY90
❷ **ENGINE OIL LEAK CHECK**	 RW12341 -UN-21NOV88	Check engine oil level, condition and viscosity. Check with engine warm. Inspect for external oil leakage.	**OK:** GO TO ❸ **NOT OK:** Repair or replace. (See CTM-5.) MX,21010FD,A3 -19-09MAY90
❸ **FUEL CHECK**	 RW12342 -UN-21NOV88	Inspect for external fuel leakage from fuel tank, fuel filter and fuel pump (A).	Inspect for external fuel leakage from carburetor, fuel lines and fittings.
			OK: GO TO ❹ **NOT OK:** Repair or replace (See CTM-5.) MX,21010FD,A4 -19-09MAY90

210
10
1

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AMT FEATURES

The AMT 600, 622 and 626 Utility Vehicles were designed to efficiently transport loads in all types of terrain.

Specifications can be found in Section 10, Group 10 and Section 210, Group 05.



M52243 -UN-29NOV88

Slide M52243



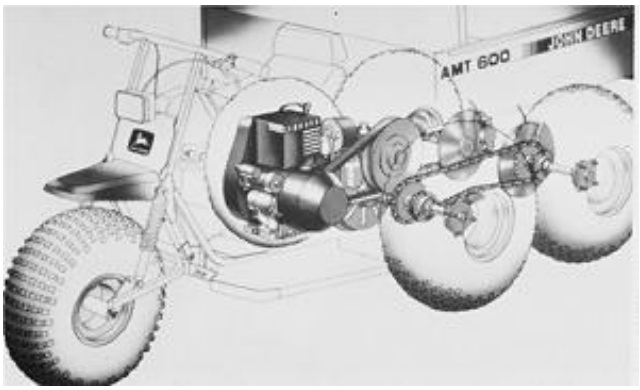
M52258 -UN-29NOV88

Slide M52258

MX,1030FD,A1 -19-29AUG91

All models offer forward and reverse in a single range, variable speed drive system. The drive system consists of a drive clutch, a driven clutch, a drive belt and a transaxle. This means that no shifting is required to increase speed, and infinite speeds up to 26 km/h (16 mph) are the result. This drive system automatically downshifts (changes gear ratios) under load while maintaining engine rpm.

Slide M52326



M52326 -UN-29NOV88

MX,1030FD,A2A -19-29AUG91

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10
05
1

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



T81389 -UN-07DEC88

DX,ALERT -19-04JUN90

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



TS187 -19-30SEP88

DX,SIGNAL -19-04JUN90

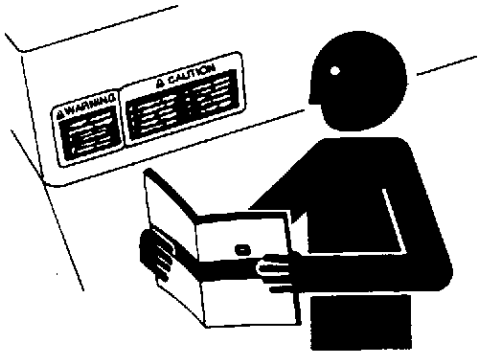
FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



TS201 -UN-23AUG88

DX,READ -19-04JUN90

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To activate the differential lock, depress the control lever on the right side of the foot platform. The differential lock should not be engaged at more than 1/3 throttle.

Slide M52254



-UN-29NOV88
M52254

MX,1030FD,A24 -19-29AUG91

A headlight is standard equipment.

Slide M52255



-UN-29NOV88
M52255

MX,1030FD,A25 -19-29AUG91

AMT622/626 FEATURES

The AMT622 and AMT626 have the same cargo capacity as the AMT600. In addition to a 91 kilogram (200 pounds) operator, the AMT622/626 offers seating for one passenger, up to 91 kilograms (200 pounds).

Slide M52258



-UN-29NOV88
M52258

MX,1030FD,A26A -19-29AUG91

The operator's seat is adjustable for individual comfort. One safety feature of this machine is the hip restraint that keeps the operator in the seat, and provides a handhold for the passenger.

Slide M52316



-UN-29NOV88
M52316

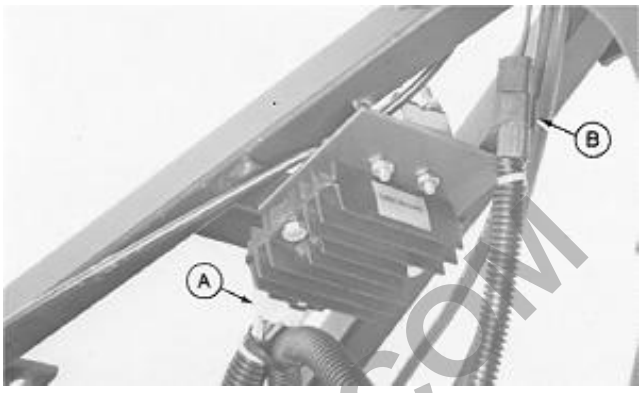
MX,1030FD,A27 -19-29AUG91

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9. Disconnect connector (A) from regulator.

10. Disconnect connector (B) from head lamp harness.



RW12322 -UN-21NOV88

WXA,040020,9 -19-09MAY90

11. Disconnect four terminals from circuit breakers.

12. Cut tie bands and remove harness from left-hand side of frame.



RW12323 -UN-21NOV88

WXA,040020,10 -19-09MAY90

REMOVE WIRING HARNESS—AMT622/626

CAUTION: Help prevent bodily injury due to falling cargo box, install support rod when raised.

1. Raise cargo box and install support rod.

2. Remove seat, console and front shroud. (See Section 80, Group 10.)

3. Remove protective cover from battery and disconnect negative ground terminal (A).



W14979 -UN-28JUN89



W14698 -UN-28JUN89

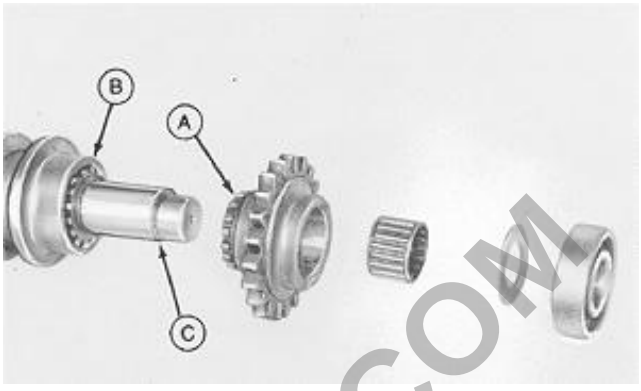
MX,4020FD,A5 -19-31JUL91

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3. Install drive gear onto short end of input shaft with shift splines (A) facing shift collar (B).

4. Install needle bearing and washer.

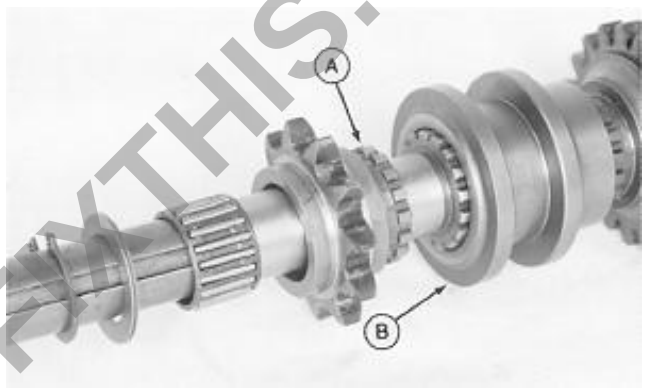
5. Press bearing tight against shoulder (C) of input shaft.



WXA,050025,20 -19-09MAY90

6. Install sprocket to keyed end of input shaft with shift splines (A) facing shifter (B).

7. Install needle bearing, washer, and snap ring.



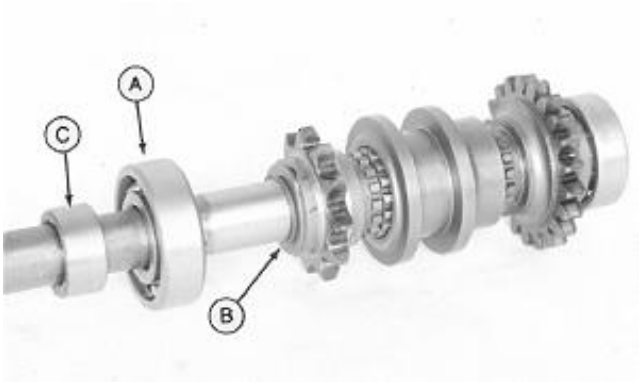
WXA,050025,21 -19-09MAY90

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8. Press bearing (A) onto shaft against snap ring (B).

9. Apply grease to shaft and wear sleeve (C).

10. Press wear sleeve onto shaft against bearing.



WXA,050025,22 -19-09MAY90

DISASSEMBLE INTERMEDIATE SHAFT

1. Remove bearings (A) using a knife-edge puller.

2. Remove intermediate drive gear (B) and snap ring (C).



WXA,050025,23 -19-09MAY90

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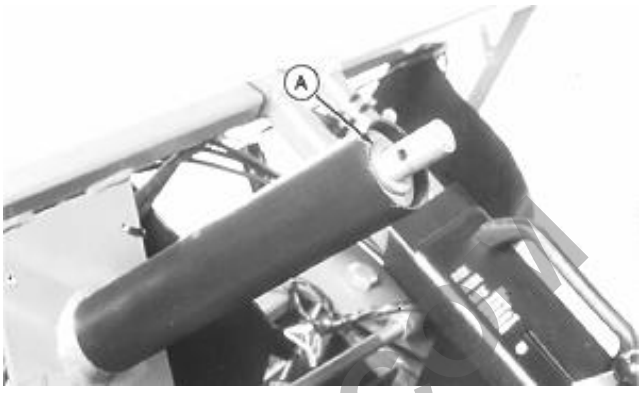
INSTALL STEERING QUADRANT—AMT626 (S.N. 004350—)

1. Install shaft through steering column. Install bushing (A), matching key and slot.

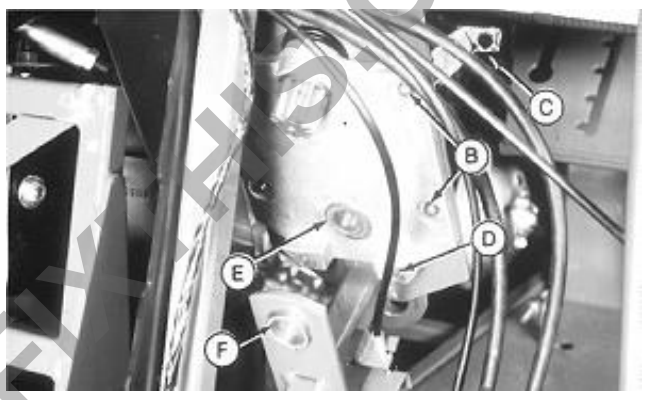
2. Install cap screws and nuts (B) in plate. Install bracket (C) loosely on upper cap screw. (Tighten bracket after dash installation—step 12.) Install cap screw and nuts (D).

3. Install bushings (E and F).

A—Steering Shaft Bushing
B—Cap Screws/Lock Nuts (4 used)
C—Choke Bracket
D—Long Cap Screws/Lock Nuts (2 used)
E—Small I.D. Bushing
F—Large I.D. Bushing



-UN-07JUN91
M80526



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M80525

MX,6010FD,A9 -19-31JUL91

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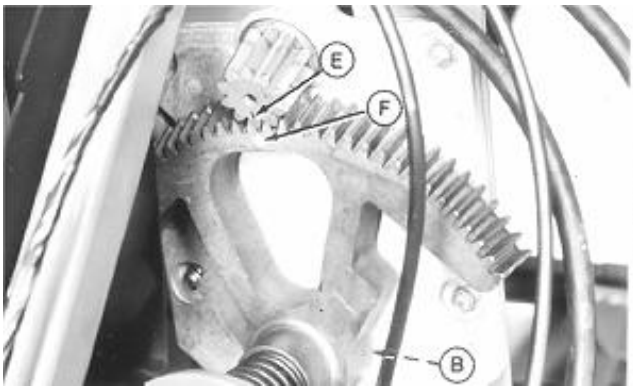
4. Install washer (B) and gear (C). Dimple (F) on gear must be aligned with groove (E) on shaft.

5. Use shaft (A) as alignment tool:
Install small diameter end of shaft through bushing, washer and quadrant gear.

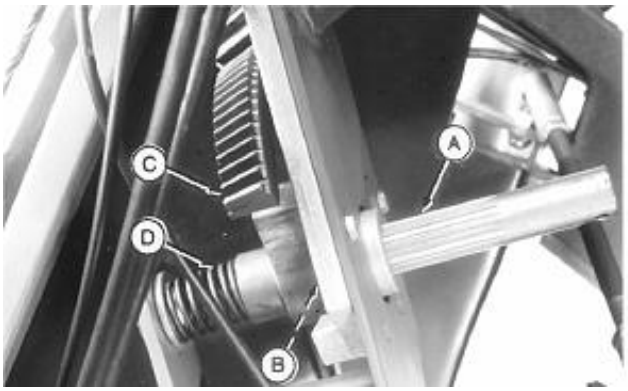
6. Install spring (D).

7. Remove shaft (A).

A—Quadrant Shaft
B—Small I.D. Washer
C—Quadrant Gear
D—Spring
E—Alignment Groove
F—Alignment Dimple



-UN-07JUN91
M80527

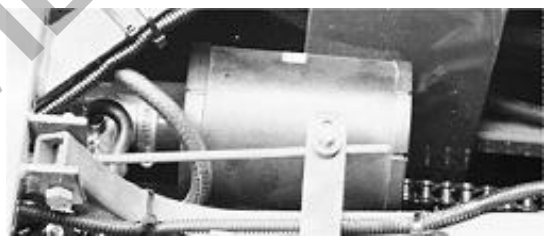


-UN-07JUN91
M80528

MX,6010FD,A10 -19-31JUL91

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❷ **ENGINE OIL LEAK CHECK**	 RW12341 -UN-21NOV88	Check engine oil level with warm engine. Inspect oil for present of fuel or metal particles. Check oil for milky appearance or burnt odor. Inspect for external oil leakage from crankcase cover, dipstick tube, drain plug, gaskets and seals.	**OK:** GO TO ❸ **NOT OK:** Repair or replace. (See CTM-5.) MX,21011FD,A3 -19-09MAY90
❸ **FUEL SYSTEM CHECK**	 M45496 -UN-23FEB90	Inspect for external fuel leakage from fuel tank, fuel shut-off valve, fuel filter, fuel pump, carburetor, fuel lines, and fittings.	Visually inspect fuel filter for debris. **OK:** GO TO ❹ **NOT OK:** Repair or replace. (See CTM-5.) MX,21011FD,A4 -19-09MAY90
❹ **AIR CLEANER AND AIR INTAKE SCREEN CHECK**	 M45497 -UN-23FEB90	Inspect air cleaner, air intake screen, air cleaner, flywheel fins, and cooling fins for oil, debris, or plugged condition. Check air cleaner hose clamp for tight condition.	**OK:** GO TO ❺ **NOT OK:** Repair or replace. (See CTM-5.) MX,21011FD,A5 -19-09MAY90

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ENGINE BACKFIRES THROUGH MUFFLER WHEN ENGINE IS SHUT OFF

NOTE: Allow engine to idle for 15 seconds before shutting engine off.

TEST CONDITIONS: (Unless otherwise specified)

- Transaxle In Neutral
- Park Brake Locked

TEST/CHECK POINT	NORMAL	IF NOT NORMAL
1. air cleaner elements	not restricted or damaged	clean or replace elements
2. carburetor - check slow idle speed	1200 RPM	adjust slow idle speed
3. carburetor - check low idle mixture adjustment	smooth idle at 1300 RPM	adjust idle mixture screw
4. exciter coil - test resistance	333 - 407 ohms	replace exciter - see Exciter Coil Test in section 24015
5. muffler	no damage or hot spots	replace muffler

MX,22015FD,8 -19-09MAY90

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CARBURETOR FLOAT AND MAIN CIRCUIT

A—Carburetor Inlet
B—Main Air Jet
C—Throttle Valve
D—Venturi
E—Fuel
F—Air
G—Fuel/Air Mixture
H—Float
I—Float Bowl
J—Main Jet
K—Needle Valve
L—Needle Seat
M—Bleed Pipe
N—Main Nozzle
O—Choke Valve
P—Main Air Jet Passage
Q—Fuel Inlet

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FUNCTION:
FLOAT CIRCUIT—To keep the fuel level in the float bowl at a specific level while the engine is operating.

MAIN CIRCUIT—To supply fuel to operate the engine from partial to full throttle. The main circuit uses a fixed main jet to meter the fuel.

MAJOR COMPONENTS:
—Float
—Needle Valve
—Main Jet
—Main Nozzle
—Throttle Valve

SYSTEM OPERATION:

FLOAT CIRCUIT

Pressure fuel from the fuel pump flows to the fuel inlet (Q), past the needle valve (K) to the float bowl (I). As the fuel level increases, the float (H) which is attached to the needle valve moves upward and closes the needle valve against the needle seat (L). When the fuel level decreases, the needle valve opens allowing more fuel into the float bowl. The float functions to provide the carburetor with a constant fuel supply at a specific level. The engine will malfunction if the proper fuel level is not maintained. The float is continually moving up and down as the engine operates, opening and closing off fuel flow into the bowl. Atmospheric pressure (blue area) on the fuel in the bowl combines with the design of the carburetor to provide both the atomization and transfer of fuel through the passages of the carburetor.

MAIN CIRCUIT

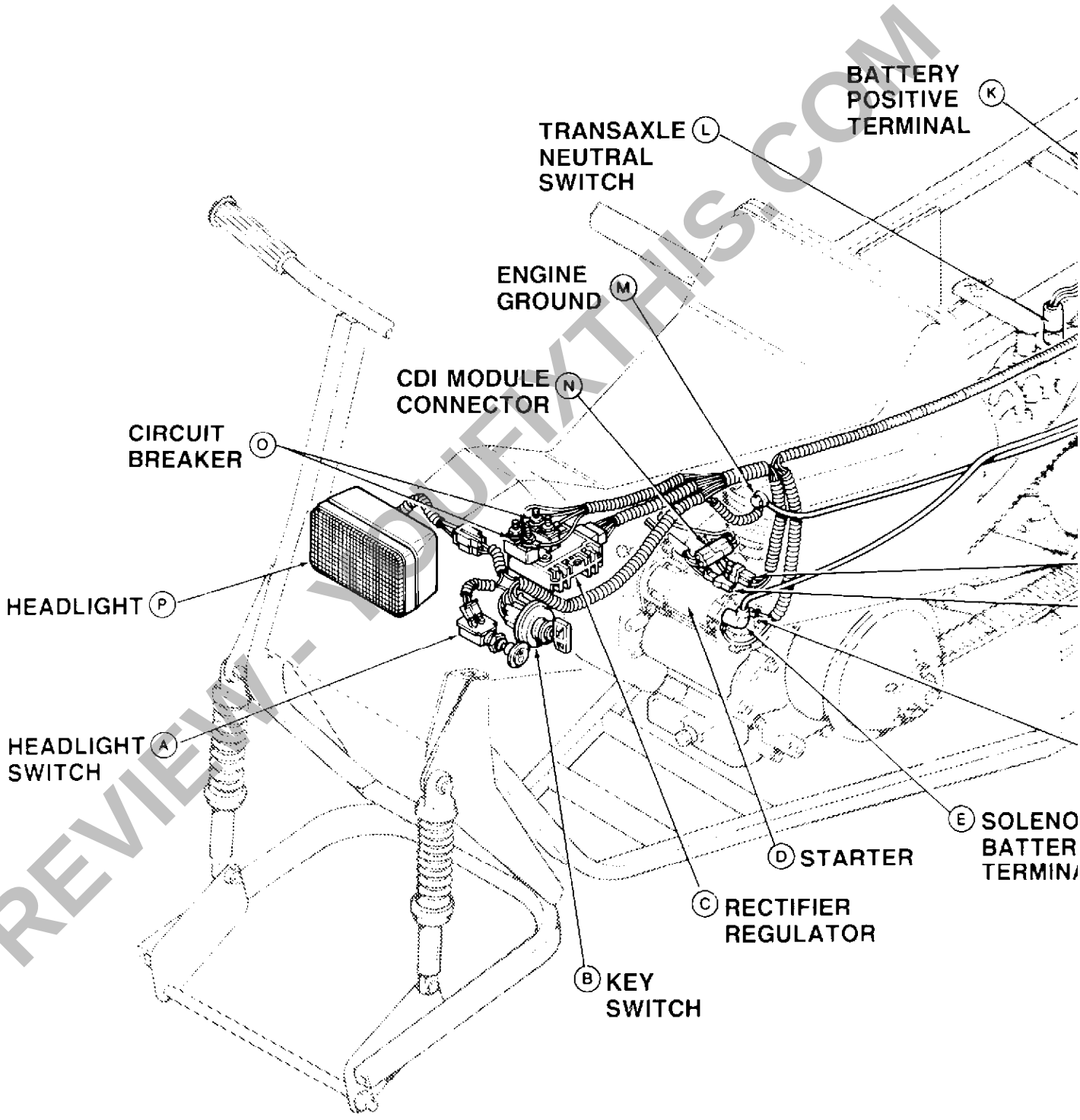
The main circuit functions when the engine is operating with a load, at partial (not idle) to full throttle and with the choke valve (O) fully open. The position of the throttle valve (C) determines the volume of air flow through the carburetor. Throttle position is controlled by the operator or determined by the governor as it responds to a load placed on the engine. With the throttle lever in the full throttle position, and a load on the engine, the throttle valve will be open. In this condition, air flows from the carburetor inlet (A) through the venturi (D) of the carburetor very fast. The venturi further accelerates air movement and a low pressure condition is created inside the carburetor, near the top of the main nozzle (N). The top of the main nozzle is centered in the venturi. High velocity, low pressure air draws fuel through the main jet (J) into the main nozzle. The main jet controls the volume of fuel entering the main nozzle.

At the same time, air also flows from the main air jet (B), through the main air jet passage (P) and into the cavity surrounding the bleed pipe (M). Here, the fuel is mixed with air bubbles created by the small holes in the bleed pipe and main nozzle tubes. Raw fuel and air are atomized into a mixture light enough to be drawn up the main nozzle into the venturi. The fast moving air flow in the venturi further atomizes the mixture to obtain the optimum air-fuel mixture needed for combustion.

The main air jet and the main jet are not adjustable. The main jet can be removed to be cleaned and is available in different sizes for higher or lower altitude operation.

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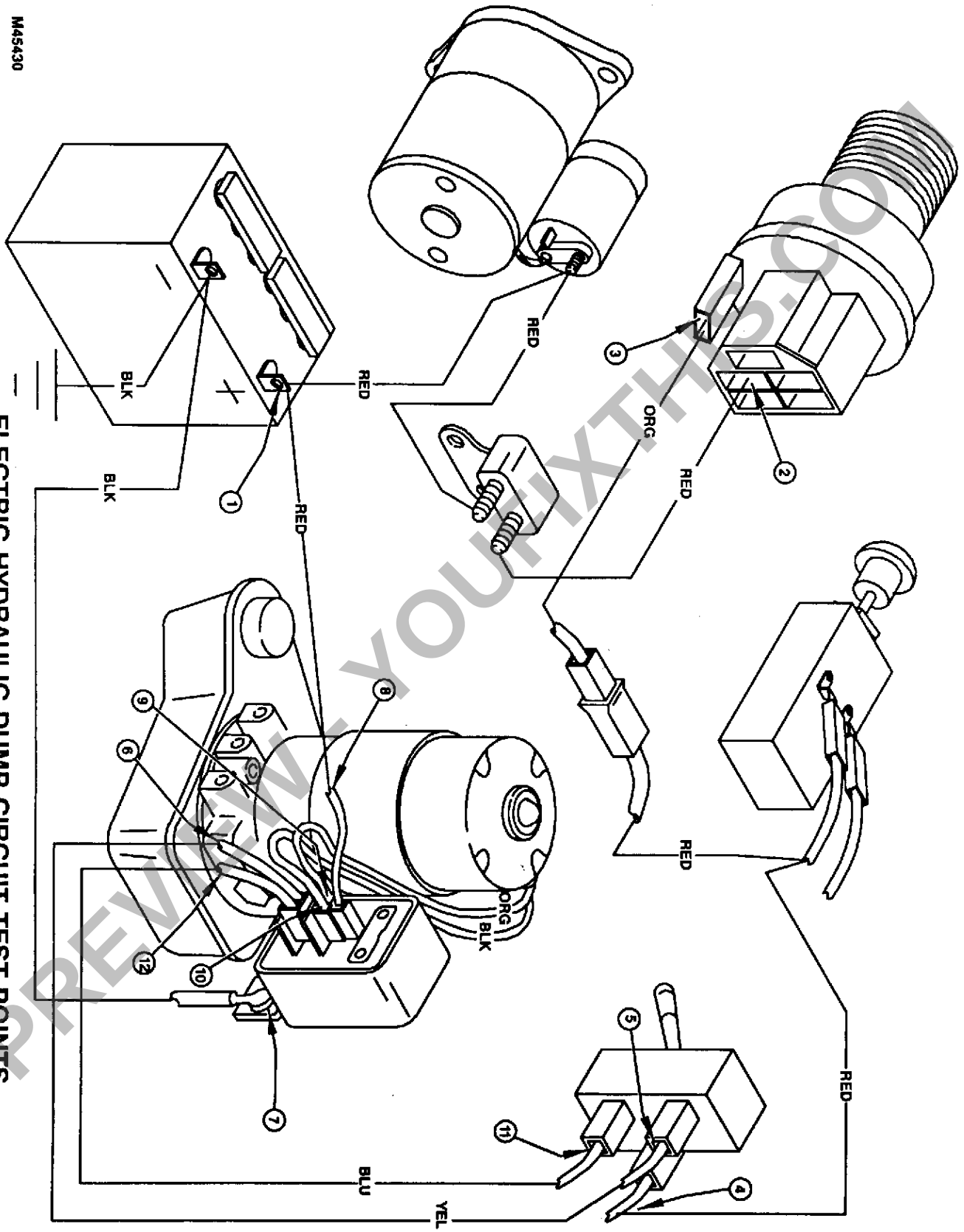
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AMT 600 ELECTRICAL COMPONE

MX,24005FD,7 -19-29AUG91

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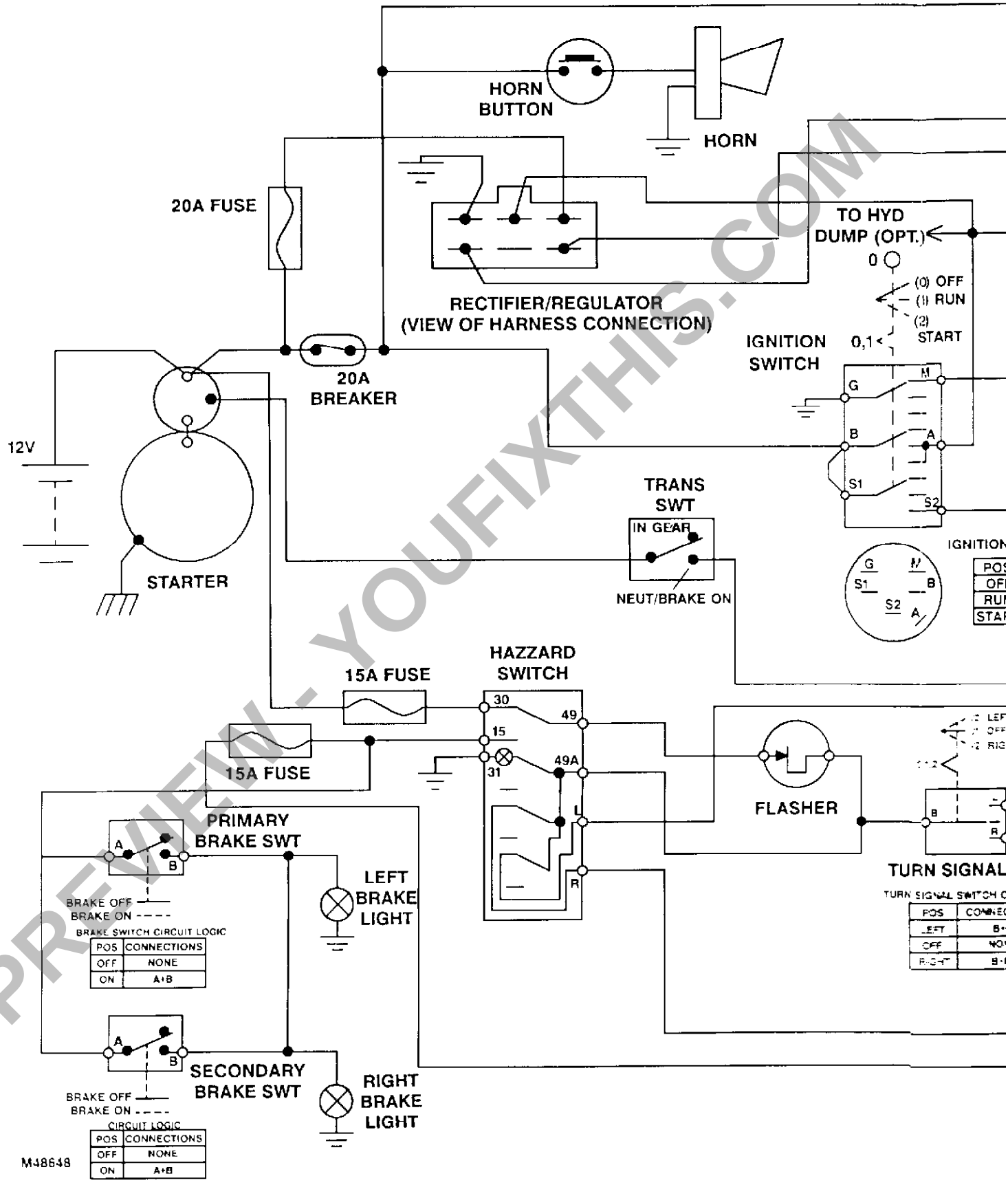
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UNIT CREEPS—IN GEAR AT IDLE

Test conditions unless otherwise specified:
—Engine running
—Shifted to forward or reverse

TEST/CHECK POINT	NORMAL	IF NOT NORMAL
1. Drive belt	—Tension adjusted correctly	Tight Adjust drive belt
	—Flexible, without set	Distorted (new) Allow break in period
2. Engine	—Idle rpm below belt engagement rpm	Adjust engine idle rpm to specification.
3. Drive clutch	—Upshifts completely with increase in engine rpm and backshifts completely at idle.	Disassemble and inspect clutch components.
	—Engages at specified rpm.	Replace clutch arm springs

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BRAKE COMPONENTS

A—Calipers
B—Disks
C—Cables
D—Park Lock Control
E—Foot Pedal Assembly
F—Drive Chains

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