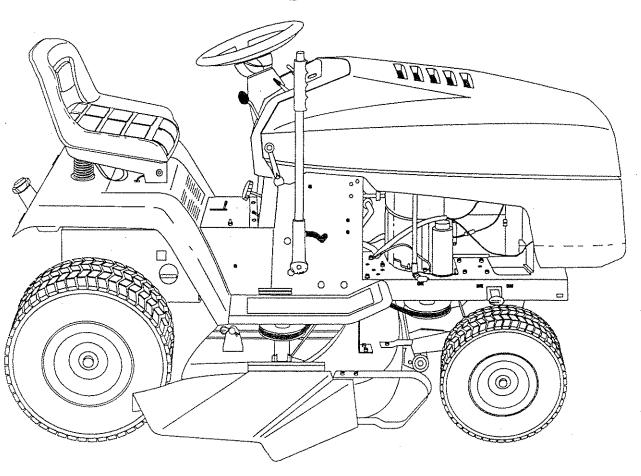
## OWNER'S MANUAL

14 H.P. HYDROSTATIC YARD TRACTOR MODEL NUMBER YTH140AR







AMERICAN YARD PRODUCTS INC.

S.C. HWY. 33 AND OLD CAMERON ROAD P.O. BOX 1687 ORANGEBURG, S.C. 29116

March March



#### Congratulations

on your purchase of a Riding Tractor. It has been designed, engineered and manufactured to give you dependability and performance. Should you experience any problem you cannot easily remedy, please contact your nearest authorized service dealer. He has we trained technicians and the proper tools and parts to service or repair this unit.

Please read and retain this manual. Following the "Rules for safe operation", "Assembly", "Operation", and "Maintenance" instructions will help you achieve a long, safe service life for your Riding Tractor.

#### LIMITED WARRANTY

The Manufacturer warrants to the original consumer purchaser that this product as manufactured is free from defects in materials and workmanship. For a period of two (2) years from date of purchase by the original consumer purchaser, we will repair or replace, at our option, without charge for parts or labor incurred in replacing parts, any part which we find to be defective due to materials or workmanship. This Warranty is subject to the following limitations and exclusions.

- 1. Engine Warranty: All engines on our products have a separate Warranty extended by the individual engine manufacturer. Said warranty must be referred to in the event of a service requirement (pages 44 & 45).).
- Transaxle/Transmission Warranty: Some of our products have a Transaxle/Transmission supplied by other manufacturers. Such Transaxle/Transmissions are warranted by that manufacturer and said Warranty must be referred to in the event of a service requirement.
- Battery Warranty: On products equipped with a Battery, we will replace, without charge to you, any battery which we find
  to be defective in manufacture, during the first year of ownership. Battery must be maintained in accordance with instructions in the product literature.
- The Warranty period for any products used for rental or commercial purposes is limited to ninety (90) days from the date of original purchase.
- 5. This Warranty applies only to products which have been properly assembled, adjusted and operated in accordance with instructions found in the product literature for your product. This Warranty does not apply to any product which has been subjected to alteration, misuse, abuse, improper assembly or installation, delivery damage, or to normal wear of the product.
- 6. Exclusions: Excluded from this warranty are belts, blades, blade adapters, normal wear, normal adjustments, standard hardware and normal maintenance.
- 7. In the event you have a claim under this Warranty, you must return the product to an authorized service dealer.

Should you have any unanswered questions concerning this warranty, please contact:

In U.S.A. contact:
American Yard Products Inc.
Service Department
P.O. Box 1687
Orangeburg, S.C. 29116

Phone: 800-435-3688

In Canada Contact:
AYP (Canada) (Inc.)
1040 Jayson Court
Mississauga, Ontario L4W 2V5

giving the model number, serial number and date of purchase of your product and the name and address of the authorized dealer from whom it was purchased.

THIS WARRANTY DOES NOT APPLY TO INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR OUR EXPRESSED WARRANTIES. Some areas do not allow the limitation of consequential damages or limitations of how long an implied Warranty may last, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from locale to locale.

This is a limited warranty within the meaning of that term as defined in the Magnuson-Moss Act of 1975

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#### ABOUT THE WARRANTY ON YOUR ENGINE

NOTE: See Back Cover for Statement of Limited Warranty.

If warranty service is needed, contact your nearest Authorized Briggs & Stratton Service Center. For prompt attention, your Center will need to know the engine model, type and code numbers, the trouble experienced and the total number of hours the engine was run.

BRIGGS & STRATTON WARRANTY covers only DEFECTIVE MATERIAL and/or WORKMANSHIP.

Briggs & Stratton Corporation welcomes the opportunity to make justified warranty repairs by any of its Authorized Service Centers. In most instances, the requests for warranty repair are handled in a quick and routine manner. However, some requests for warranty are received which appear not justified. In these cases, though engine owners may not be aware of it, the premature failure of their engine was caused by abuse or neglect, or the equipment on which it was mounted, rather than the engine.

If you differ with the decision of your Service Center, investigation will be made to determine the applicability of warranty. Ask the Service Center to submit all supporting facts to the Factory for review. If the Factory decides that your claim is justified, you will be fully reimbursed for those items accepted as defective. To avoid misunderstanding which might occur between engine owners and Authorized Briggs & Stratton Service Centers, we list below some of the causes of engine failure that Briggs & Stratton warranty does not cover for repair or replacement.

NORMAL WEAR: Engines, like all mechanical devices, need periodic parts service and replacement to perform well. Warranty will not cover repair when normal use has exhausted the life of a part or an engine.

IMPROPER MAINTENANCE: Remember that the service life of an engine depends upon the conditions under which it operates and the care it receives. Some applications, such as tillers, trash pumps and rotary mowers, are very often used in dusty or dirty conditions which can cause what appears to be premature wear. Such wear, when caused by dirt, dust, spark plug cleaning grit or other abrasive material that has entered the engine because of improper maintenance, is not covered by warranty.

VARRANTY DOES NOT APPLY FOR SOME ADJUSTMENTS OR IF BUSE OR NEGLECT CAUSES ENGINE DAMAGE: SUCH AS

- Bent or broken crankshafts that could be caused by striking a solid object with the cutter blade of a rotary lawn mower;
- Sticking valves or clogged carburetors, fuel pipes or other damage caused by using contaminated or state fuel (Use clean, fresh, <u>lead-free</u> gasoline.);

- 3. Parts which are scored or broken because an engine was operated with insufficient lubricating oil, improper grade of lubricating oil, or contaminated lubricating oil in the case of a 4 cycle engine, or operated with incorrect BIA/NMMA certified oil/gas mixture in the case of a 2 cycle engine. (For a 4 cycle engine, check the oil level daily or after 8 hours and refill when necessary. Change oil at recommended intervals. For a 2 cycle engine, use the correct oil/gas mixture.);
- Parts damaged by overspeeding or overheating caused by dirt, grass or debris plugging the cooling fins and clogging the flywheel area, or caused by operating the engine in a confined area without sufficient ventilation (Clean fins on the cylinder, cylinder head and flywheel at recommended intervals.);
- Damage or wear to parts caused by dirt which entered the engine because of improper air cleaner maintenance or re-assembly (Clean and re-oil the foam pre-cleaner and clean or replace the paper cartridge at recommended intervals.);
- 6. Damage or wear to parts caused by grit which entered the engine from spark plugs cleaned on an abrasive blast cleaning machine;
- Tune-up or adjustment needed by an engine but not caused by defective material nor workmanship (Follow the "Operating and Maintenance Instructions" when making any minor adjustments.);
- Parts broken by excessive vibration caused by loose engine mounting, loose cutter blades, unbalanced blades or impellers, improperly attaching equipment to engine crankshaft, overspeeding or abuse in operation;
- Repair or adjustment of associated parts or assemblies such as clutches, transmissions, remote controls, etc., which are not of Briggs & Stratton manufacture:
- 10. PARTS THAT ARE NOT ORIGINAL BRIGGS & STRATTON PARTS OR PARTS THAT ARE NOT APPROVED BY BRIGGS & STRATTON.

Warranty is available only through service centers which have been authorized by the Briggs & Stratton Corporation. Your nearest service center is listed in the Yellow Pages of your Telephone Directory, under "Engines, Gasoline" or "Gasoline Engines."

## Superseding Warranty BRIGGS & STRATTON ENGINE WARRANTY POLICY effective July 1, 1988

#### Replaces all undated previous Warranties and all Warranties

dated before July 1, 1988

When warranty repair is justified, Briggs & Stratton Corporation welcomes such repair by any of its Authorized Service Centers.

In most instances, the requests for warranty brought to the attention of our Service Accounts are handled in a prompt routine manner with no question regarding their validity. However, some requests for warranty are received which appear not justified. In these cases, engine owners may not be aware that the premature failure of their engine was the result of abuse or neglect, or that the difficulty which they experience is caused by the equipment rather than the engine.

BRIGGS & STRATTON WARRANTY covers only DEFECTIVE MATERIAL and/or WORKMANSHIP.

## LIMITED WARRANTY

"For time period shown below from date of purchase, Briggs & Stratton Corporation will replace for the original purchasers, free of charge, any part, or parts of the engine, found upon examination by any Factory Authorized Service Center, or by the Factory at Milwaukee, Wisconsin, to be defective in material or workmanship or both; this is the exclusive remedy. All transportation charges on parts submitted for replacement under this Warranty must be borne by purchaser. For warranty service contact your nearest Authorized Service Center as listed in the 'Yellow Pages' under 'Engines, Gasoline' or 'Gasoline Engines.' THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO ONE YEAR FROM PURCHASE AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state."

Briggs & Stratton Corporation
F. P. Stratton, Jr.
Chairman and Chief Executive Officer

#### **WARRANTY PERIOD**

| ENGINES  | CONSUMER USE*                                   | COMMERCIAL USE*                                 |
|--|---|---|
| All 2 thru 18 hp engines on non-lawn mowing equipment                      | 1 year-engine                                   | 1 year-engine                                   |
| All 2 thru 18 hp engines on lawn mowing equipment and all Sno Gard engines | 2 year-engine*** 5 year-Magnetron® ignition***  | 1 year-engine                                   |
| All Vanguard and I/C® engines  | 2 year-engine<br>Lifetime**-Magnetron® ignition | 2 year-engine<br>Lifetime**-Magnetron® ignition |

- \* For purposes of this warranty policy, "consumer use" shall mean personal residential household use by the original retail consumer. "Commercial use" shall mean all other uses, including use for commercial, income producing or rental purposes. Once an engine has experienced commercial use, it shall thereafter be considered as a commercial use engine for purposes of this warranty policy.
- \*\* Lifetime limited warranty of the Magnetron® ignition shall cover parts and labor for the first five (5) years from the date of purchase; thereafter only parts. "Lifetime" shall mean lifetime of the engine in the hands of the original purchaser.
- \*\*\* Applies to equipment retailed in the U.S.A. and Canada. In all other countries, the warranty for CONSUMER USE is the same as COMMERCIAL USE.

NO REGISTRATION (WARRANTY) CARD IS NECESSARY TO OBTAIN WARRANTY ON BRIGGS & STRATTON ENGINES. SAVE YOUR PURCHASE RECEIPT. PROOF OF PURCHASE DATE WILL BE REQUIRED TO OBTAIN WARRANTY.

| 1 | BRIGGS & S | TRATTON ENGI | NES ARE MADE | UNDER ONE O | R MORE OF TH | E FOLLOWING F | ATENTS:   |           |           |           | DESIGN                |
|---|------------|--------------|--------------|-------------|--------------|---------------|-----------|-----------|-----------|-----------|-----------------------|
| 1 | 2,999,491  | 3,305,223    | 3,526,146    | 3,625,492   | 3,745,393    | 3,971,353     | 4,233,043 | 3,194,224 | 3,457,804 | 3,572,218 | D-247,177             |
| 1 | 3,650,354  | 3,961,724    | 4,168,288    | 4,270,509   | 3,276,439    | 3,485,740     | 3,625,071 | 3,738,345 | 3,968,854 | 4,189,040 | OTHER PATENTS PENDING |



LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAU-TIONS. IT MEANS - ATTENTION! BE-COME ALERT! YOUR SAFETY IS IN-VOLVED.

CAUTION: LOOK FOR THIS WORD TO POINT OUT IMPORTANT EQUIPMENT PRECAUTIONS.



#### **RULES FOR SAFE OPERATION**

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or area laws (if any). If a spark arrester is used, it should be maintained in effective working order be the operator. (See REPAIR PARTS for part number identification).

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other States may have similar laws. Federal laws apply on federal lands.

- Know the controls and how to stop quickly. READ THIS OPERATOR'S MANUAL and instructions furnished with attachments.
- Do not allow children to operate the machine. Do not allow adults to operate it without proper instruction.
- Do not carry passengers. Do not mow when children and others are around.
- 4. Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
- Keep your eyes and mind on your tractor, mower, and the area being cut. Do not let other interests distract you.
- 6. Do not attempt to operate your tractor or mower when not in the drivers seat.
- Always get on or off your tractor from the operator's left hand side.
- Clear the work area of objects (wire, rocks, etc.) which might be picked up and thrown.
- Disengage all attachment clutches before attempting to start the engine.
- Disengage power to attachments and stop the engine before leaving the operator's position.
- Disengage power to mower, stop the engine, and disconnect spark plug wire(s) from spark plug(s) before cleaning, making an adjustment, or repair. Be careful to avoid touching hot muffler or engine components.
- 12. Disengage power to attachments when transporting or not in
- 13. Take all possible precautions when leaving the vehicle unattended. Disengage the power-take-off, lower the attachments, shift into neutral, set the parking brake, stop the engine, and remove the key.
- 14. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of slopes (not greater than 15°); never across the face. Refer to page 46.
- Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
- While going up or down slopes, place Gear Shift Control Lever in 1st gear position to negotiate the slope without stopping.
- Never mow in wet or slippery grass, when traction is unsure, or at a speed which could cause a skid.
- Stay alert for holes in the terrain and other hidden hazards. Keep away from drop-offs.
- Do not drive too close to creeks, ditches, and public highways.
- Exercise special care when mowing around fixed objects in order to prevent the blades from striking them. Never deliberately run tractor or mower into or over any foreign objects.
- 21. Never shift gears until tractor comes to a stop.
- 22. Never place hands or feet under the mower, in discharge chute, or near any moving parts while tractor or mower are running. Always keep clear of discharge chute.
- 23. Use care when pulling loads or using heavy equipment.
  - a. Use only approved drawbar hitch points.

- b. Limit loads to those you can safely control.
- Do not turn sharply. Use care when backing.
- Use counterweight or wheel weights when suggested in owner's manuals.
- 24. Watch out for traffic when crossing or near roadways.
- When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
- 26. Handle gasoline with care it is highly flammable.
  - a. Use approved gasoline containers.
  - b. Never remove the fuel cap of the fuel tank or add gasoline to a running or hot engine or an engine that has not been allowed to cool for several minutes after running. Never fill tank indoors, always clean up spilled gasoline.
  - Open doors if the engine is run in the garage exhaust fumes are dangerous. Do not run the engine indoors.
- 27. Keep the vehicle and attachments in good operating condition, and keep safety devices in place and working.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- 9. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- 30. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease. Do not clean product while engine is running.
- Except for adjustments, DO NOT operate Engine if air cleaner or cover directly over carburetor air intake is removed. Removal of such part could create a fire hazard.
- 32. Do not operate without a muffler, or tamper with exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary.
- 33. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
- 34. Do not change the engine governor settings or overspeed the engine; severe damage or injury may result.
- 35. When using the vehicle with mower, proceed as follows:
  - a. Mow only in daylight or in good artificial light.
  - b. Shut the Engine off when unclogging chute.
  - Check the blade mounting bolts for proper tightness at frequent intervals.
- 36. Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the the deflector shield in place.
- 37. Disengage power to mower before backing up. Do not mow in reverse unless absolutely necessary and then only after careful observation of the entire area behind the mower.
- 38. Under normal usage the grass catcher bag material is subject to deterioration and wear. It should be checked frequently for bag replacement. Replacement bags should be checked to ensure compliance with the original manufacturer's recommendations or specifications.

3

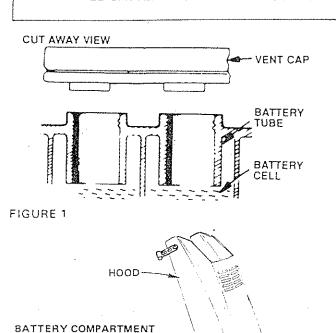
To assemble and adjust your Tractor you will need: one 3/4" wrench, one 9/16" wrench, a utility knife, one 1/2" wrench, two 7/16" wrenches, and one 11/16" wrench.

WEAR EYE AND FACE SHIELD.

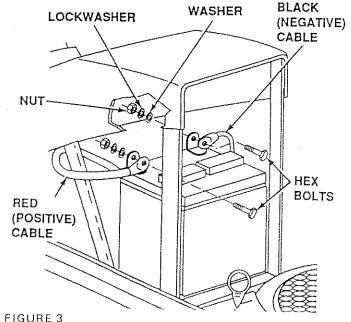


WASH HANDS OR CLOTHING IMMEDIATELY IF ACCIDENTALLY IN CONTACT WITH BATTERY ACID.

DO NOT SMOKE. FUMES FROM CHARGED BATTERY ACID ARE EXPLOSIVE.







#### ASSEMBLY

NOTE: RIGHT HAND (R.H.) AND LEFT HAND (L.H.) ARE DETERMINED FROM OPERATOR'S POSITION WHILF SEATED ON THE TRACTOR

 Remove battery, steering wheel, seat, and bag of parts. Cut down four corners of carton and fold down. Remove banding holder mower deck in place and remove from skid. Disengage parking brake and remove tractor from skid.



READ THE INSTRUCTIONS INCLUDED WITH THE BATTERY VENT CAPS IN THE BAG OF PARTS. ALWAYS WEAR GLOVES, CLOTHING AND GOGGLES TO PROTECT YOUR HANDS, SKIN AND EYES.

#### 2. Prepare Battery

Before installation in Tractor, follow the battery preparation steps below. Refer to detailed instructions found with battery vent caps in bag of parts.

- a. Remove the tape from the battery cells. Fill each cell with acid. Add the acid until it reaches the bottom of the vent tube (Fig. 1). Do not add the acid beyond this level or additional acid can come out when the battery is charged.
- b. Wait 20 to 30 minutes before installing the vent caps. If the level of acid falls below the point as described in step (a), add more acid until the correct level is reached. Install the vent caps. Wash the top of the battery with water to remove any acid, then wipe dry.
- c. Neutralize excess battery acid for disposal by adding it to four inches of water in a five gallon plastic container. Stir with a wooden paddle or plastic paddle while adding baking soda until the addition of more soda cause no more foaming.
- d. Use a 12 volt battery charger. Charge battery at a rate of 6 amperes for 1 hour. Check the acid level after the battery is charged. If the acid has fallen below the correct level, add distilled water.

DO NOT SHORT BATTERY TERMINALS.

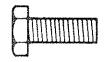


GRILL

BEFORE INSTALLING BATTERY, RE-MOVE METAL BRACELETS, WRIST-WATCH BANDS, RINGS, ETC. FROM YOUR PERSON.

#### 3. Install Battery.

- a. Lift hood from rear sides (Fig. 2).
- b. Make sure Drain Tube is fastened to Drain Hole in Battery Tray and Battery Tray drain hole is positioned near the edge of Battery Support.
- c. Place Battery in Plastic Tray (Battery Terminals to rear of Tractor) (Fig. 3).
- 4 Connect Battery Cables using: two Hex Bolts, two Flat Washers, two Lockwashers and two Hex Nuts (shown full size below) found in Bag of Parts.











POSITIVE TERMINAL MUST BE CON-NECTED FIRST TO PREVENT SPARKS FROM ACCIDENTAL GROUNDING.

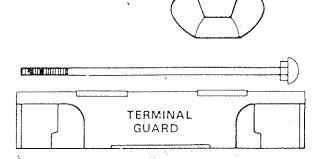
- a. Connect RED Battery Cable to Positive (+) Battery Terminal with Hex Bolt, Flat Washer, Lockwasher and Hex Nut (Fig. 3). Tighten securely.
- b. Connect BLACK Ground Cable to Negative (-) Battery Terminal with remaining Hex Bolt, Flat Washer, Lockwasher and Hex Nut (Fig. 3). Tighten securely.

## SERVICE NOTES

## ATION 0 S SLOPES

NOO 2 <u>a</u> A DE 0 ACH WITH ZOT EVEL LINUES OPE JESO 150 HIS MAX down s the f s of co IS A ST HOLD never across tipping or loss anging direction Q Operate greater t ally to gention v GUIDE () CHILL

5.Install Battery using: two Wing' Nuts (shown full size below) and two Battery bolts and one Terminal Guard found in Bag



- a. Using the slotted hole on one side of the Battery Support (Fig. 4) insert one Battery Bolt, head of Bolt down. Fasten the Battery Bolt to the Terminal Guard using Wing Nut as shown in Fig. 4.
- b. Assemble the remaining Battery Bolt to other side of Battery Support and fasten Terminal Guard to it with remaining Wing Nut. Tighten Wing Nuts securely by hand (Fig. 4).

NOTE: USE TERMINAL ACCESS DOORS (FIG. 4) FOR:

- 1. Inspection for secure connections (tighten hardware).
- 2. Inspection for corrosion.
- 3. Testing battery.
- 4. Jumping (if required).
- 5. Charging (if required).



WHEN NOT IN USE, KEEP TERMINAL ACCESS DOORS CLOSED.

6. Install Steering Wheel

NOTE: POSITION FRONT WHEELS FORWARD

- a. Use 3/4" wrench to remove Hex Nut and 2-1/4" Dia. Washer from Steering Shaft (Fig. 5).
- b. Position Steering Wheel over Steering Wheel Adapter.
  c. Secure Steering Wheel to Steering Shaft using 2-1/4"
  Dia. Washer and Hex Nut (Fig. 5). Torque to 50 ft. lbs.
- d. Snap Steering Wheel Insert, found in Bag of Parts, in place.
- 7. INSTALL SEAT
  SEAT POSITION SHOULD BE ADJUSTED FORWARD OR
  BACKWARD SO THAT THE OPERATOR CAN
  COMFORTABLY REACH CLUTCH/BRAKE PEDAL AND
  SAFELY OPERATE TRACTOR. (FIG. 10).
  - a. Place seat on seat pan. Screw hand adjustment knob, flat washer and lock washer, and shoulder bolt into seat (Fig. 7). Hand adjustment knob, washers and shoulder bolt found in bag of parts.

  - b. Tighten Shoulder Bolt using a 1/2" wrench (Fig. 7). Note that Shoulder Bolt will be loose in Seat Pan slot.
    c. Hand tighten Adjustment knob. (FIG. 7).
    d. Place Seat in operating position. Sit on the Seat and press Clutch/Brake Pedal all the way down. If operating position is not comfortable, Adjust Seat.
    - To Adjust: Raise Seat, loosen Hand Adjustment Knob, slide Seat to desired position, tighten Hand Adjustment Knob securely.



THE SEAT HAND ADJUSTMENT KNOB MUST BE TIGHTENED SECURELY TO PREVENT MOVEMENT OF SEAT.

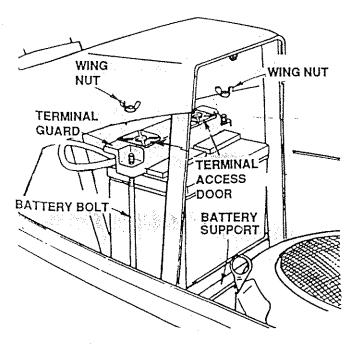


FIGURE 4

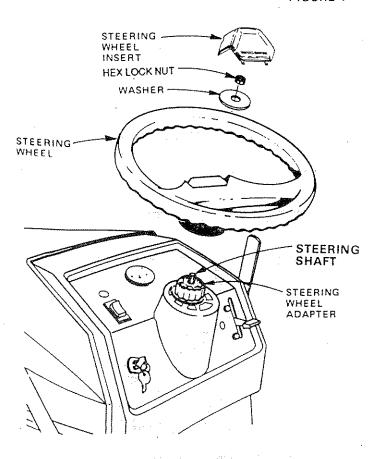
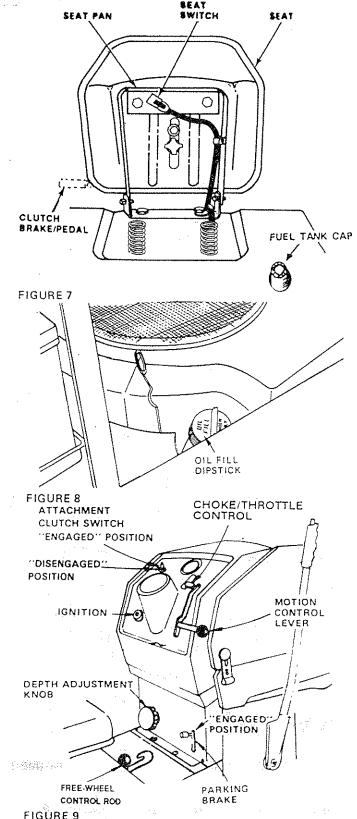


FIGURE 5

NOTE: A SPARK ARRESTER SCREEN (PAGE 26) IS AVAILABLE AS AN ACCESSORY PART FOR YOUR TRACTOR, CHECK LEGAL REQUIREMENTS IN YOUR AREA.

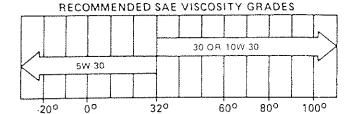


#### INITIAL SERVICE

1. Raise Hood

 This engine has been shipped filled with summer weight oil. For cold weather operation see chart below. Check engine oil level with Tractor on level ground. Wipe Dipstick (Fig. 8) clean, screw it in tight for a few seconds, remove and read oil Level. If necessary, add oil until "FULL" mark is reached.

NOTE: BE CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR



TEMPERATURE RANGE EXPECTED BEFORE NEXT OIL CHANGE. ALL OILS MUST MEET A.P.I. SERVICE CLASSIFICATION SD, SE, OR SF.

Capacity is 3 pints. NOTE: DO NOT OVERFILL. Dipstick assembly must be securely tightened into tube at all times when engine is operating.

Fill Fuel Tank (Fig. 7). Use fresh, clean, regular "UNLEAD-ED" automotive gasoline. Use of regular leaded gasoline is not an acceptable substitute. Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life. Capacity is 3-1/2 gallons.

CAUTION:EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

TO AVOID ENGINE PROBLEMS, THE FUEL SYSTEM SHOULD BE EMPTIED BEFORE STORAGE OF 30 DAYS OR LONGER. DRAIN THE GAS TANK, START THE ENGINE AND LET IT RUN UNTIL THE FUEL LINES AND CARBURETOR ARE EMPTY. USE FRESH FUEL NEXT SEASON. SEE STORAGE INSTRUCTIONS FOR ADDITIONAL INFORMATION.

NEVER USE ENGINE OR CARBURETOR CLEANER PRODUCTS IN THE FUEL TANK OR PERMANENT DAMAGE MAY OCCUR.



FILL TO BOTTOM OF GAS TANK FILLER NECK. DO NOT OVERFILL. WIPE OFF ANY SPILLED OIL OR FUEL. DO NOT STORE, SPILL OR USE GASOLINE NEAR AN OPEN FLAME.

4. Reduce tire pressure to 14 PSI in front and 10 PSI in rear Tires. (Tires were overinflated for shipping purposes).

#### **OPERATION**



THIS TRACTOR IS EQUIPPED WITH INTERLOCK SWITCHES TO PREVENT STARTING OF THE TRACTOR ENGINE WHILE THE ATTACHMENT CLUTCH SWITCH (FIG. 9) IS IN THE "ENGAGED" POSITION AND/OR THE CLUTCH/BRAKE PEDAL IS IN THE CLUTCH POSITION (FIG. 10). IMMEDIATELY REPLACE SWITCHES THAT ARE NOT IN PROPER WORKING ORDER. DO NOT ATTEMPT TO DEFEAT THE PURPOSE OF THESE SWITCHES



#### CAUTION TO AVOID INJURY

- 1. Read owners manual.
- 2. Know location and function of all controls.
- Keep guards, safety shields and switches in place and work-ing.
- 4. Remove objects that can be thrown by blades.
- 5. Do not mow when children and others are around.
- 6. Never carry children or passengers.
- 7. Always look behind machine before backing.
- 8. Do not mow where machine can tip or slip.
- If machine stops going uphill, stop blade and back slowly down.
- 10. Be sure blades and engine have stopped before placing

#### REPAIR PARTS

## 14 H.P. HYDROSTATIC YARD TRACTOR ENGINE--MODEL NUMBER 400707, TYPE NUMBER 1211-01

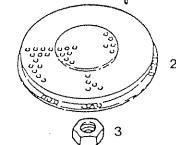
#### ALTERNATOR AND STARTER MOTOR GROUP

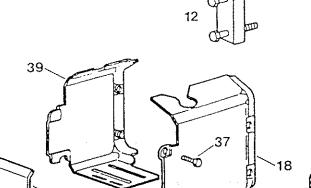
| KEY<br>NO. | PART<br>NO. | DESCRIPTION                            | KEY<br>NO. | PART<br>NO. | DESCRIPTION                          |
|------------|-------------|--|------------|-------------|--------------------------------------|
| :<br>: 1   | 94326       | Screw - Sem                            | 18         | 222849      | Cover Assembly - Air Guide           |
| 2          | 222673      | Screen - Flush Rotating                |            |             | (Cylinder No. 2)                     |
| 2          | 230674      | Nut - Hex                              | 19         | 222846      | Shield, Cylinder                     |
| 4          | 222511      | Washer - Spring                        | 20         | 222847      | Shield, Cylinder                     |
| 5<br>6     | 222674      | Cup - Screen Mounting                  | 22         | 490421      | Starter Drive Group (Inc. Key N      |
| 6          | 491180      | Flywheel and Ring Gear                 |            |             | 33, 34 & 36)                         |
| Ì          |             | Assembly - Magneto                     | 24         | 394808      | Motor - Starting (Inc. Key No's, 25, |
| 7          | 935535      | Screw - Sem                            |            |             | 26, 27, 28, 29, 30, 33, 34, 35 & 36) |
| 8          | 393537      | Connector Assembly                     | 25         | 395537      | Commutator End Cap Assembly          |
| 9          | 392595      | Stator - Alternator (Tri Circuit)      |            |             | Starter (Inc. Key No. 26)            |
|            |             | (Inc. Key No. 8)                       | 26         | 395538      | Brush Set                            |
| 10         | 93621       | Screw - Sem                            | 27         | 393825      | Housing Assembly                     |
| 11         | 391362      | Gear - Flywheel Ring (Includes         | 28         | 94003       | Thru Bolt                            |
| Ì          |             | Mounting Parts)                        | 29         | 390837      | Armature Assembly (Motor)            |
| 12         | 19203       | Puller - Flywheel (Optional Accessary) | 30         | 394860      | Drive End Cap Assembly - Starter     |
| 13         | 394891      | Armature Group (Inc. Key No's.         | 31         | 90366       | Lockwasher                           |
|            | 00.00.      | 15, 16 & 40)                           | 32         | 91162       | Screw - Hex Head                     |
| 14         | 93381       | Screw - Armature Mounting              |            |             | (5/16 - 18 x 1 - 1/2)                |
| 1          | 22301       | Sem                                    | 33         | 280104      | Gear - Starter                       |
| 15         | 221798      | Terminal - Ignition Cable              | 34         | 398003      | Clutch Assembly - Starter            |
| 16         | 394970      | Trigger Coil Assembly Magnatron        | 35         | 490467      | Pinion Spring Kit (Inc. Key No's.    |
| 1          | 00 /0/0     | Ignition                               |            |             | 33 & 36)                             |
| . 17       | 93163       | Screw - Sem                            | 36         | 94288       | Roll Pin                             |
| . 17       | 00100       | Octobr Octob                           | 37         | 93163       | Screw- Sem                           |
| ŲĀ.        |             |  | 39         | 222848      | Cover Assembly - Air Guide           |
| ;          |             |  |            |             | (Cylinder No. 1)                     |
| 1          |             | ·                                      | 40         | 394988      | Armature Assembly                    |
|            |             |  | 42         | 280815      | Fan - Flywheel                       |
| 1          |             |  | 43         | 223726      | Retainer - Fan                       |

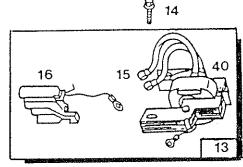
14 H.P. HYDROSTATIC YARD TRACTOR
ENGINE--MODEL NUMBER 400707, TYPE NUMBER 1211-01

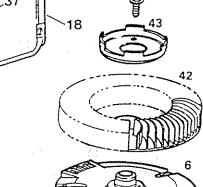
ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.

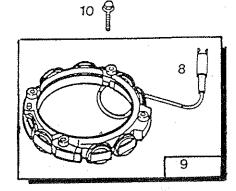
ALTERNATOR AND STARTER MOTOR GROUP

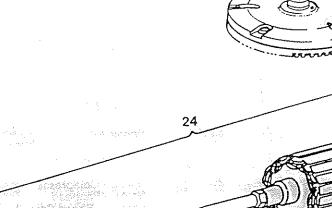


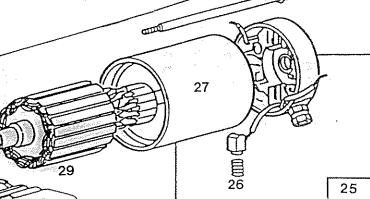


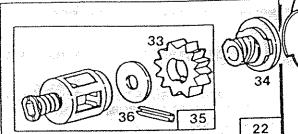












Assemblies include all parts shown in frames.

#### STARTING THE ENGINE



LEARN TO START, STOP AND REVERSE YOUR TRACTOR IN A LARGE, OPEN AREA.

CAUTION: DO NOT ADD ADDITIONAL WEIGHT TO THE TRACTOR OTHER THAN THE OPTIONAL WHEEL WEIGHTS. EXCESSIVE WEIGHT MAY OVERLOAD AND DAMAGE THE TRANSMISSION.

- 1. Place Attachment Clutch Switch in "DISENGAGED" position (Fig. 9).
- 2. Push Clutch/Brake Pedal fully into "BRAKE" position (fig. 10).
- Place Motion Control Lever in "N" (neutral) position (Fig. 9).
- 4. Place Parking Brake in "ENGAGED" position (Fig. 9). Pedal should remain locked when released.
- 5. Pull choke out (Fig. 9).
- 6. Move Throttle Control to middle position (Fig. 9).
- 7. Turn Ignition Key to "START" position until Engine starts (Fig. 9). NOTE: DO NOT RUN STARTER CONTINUOUSLY FOR MORE THAN FIFTEEN SECONDS PER MINUTE. If engine does not start after several attempts, move Throttle Control to "F" (fast) position, wait a few minutes and try again.

The first time you start the engine, it will take extra cranking time to move fuel from tank to the engine.

NOTE: ALLOW ENGINE TO WARM UP FOR A FEW MINUTES BEFORE ENGAGING CLUTCH OF TRACTOR OR ATTACHMENT.

If engine does not start after several attempts, refer to Trouble Shooting, page 14.

#### WARMING UP THE ENGINE

Move Throttle Control mid-way between "F" and "S" positions (Fig. 9). As engine warms up, move Throttle Control Lever to "F" position. NOTE: ALLOW ENGINE TO WARM UP FOR A FEW MINUTES BEFORE OPERATING.

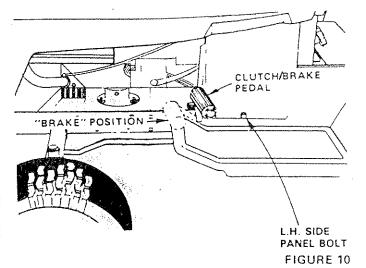
When restarting a warm engine, move Throttle Control midway between "S" (slow) and "F" (fast) position. Choke may not have to be used.

#### TRACTOR OPERATION

NOTE: THIS TRACTOR IS EQUIPPED WITH AN OPERATOR PRESENCE SENSING SWITCH. ANY ATTEMPT BY THE OPERATOR TO LEAVE THE SEAT WITH THE ENGINE RUNNING AND THE ATTACHMENT CLUTCH SWITCH ENGAGED WILL SHUT OFF THE ENGINE.

With engine running and warm, place Throttle Control midway between "S" (Slow) and "F" (Fast) positions.

- Push Clutch/Brake Pedal (Fig. 10) down firmly to disengage parking brake and release Clutch/Brake Pedal slowly.
- 3. Move Motion Control Lever to desired speed and direction (Fig. 9).
- 4. If ground travelispeed is too slow, move Throttle Control to "F" (FAST) position. Move Motion Control Lever to desired speed.



NOTE: ALWAYS OPERATE ENGINE AT FULL ENGINE RPM TO ASSURE BETTER PERFORMANCE AND PROPER DISCHARGE OF MATERIAL.

CAUTION: BRINGTRACTOR TO COMPLETE STOP BE-FORE SHIFTING FROM FORWARD TO RE-VERSE OR VICE VERSA.



NEVER PLACE YOUR HANDS OR FEET IN OR UNDER ANY POWERED ATTACHMENT OR NEAR ANY MOVING PART WHILE TRACTOR OR ANY POWERED ATTACHMENT IS RUNNING.

DO NOT OPERATE THE MOWER WITHOUT THE DEFLECTOR GUARD IN PLACE.

#### STOPPING YOUR TRACTOR

## CAUTION: DO NOT CHOKE CARBURETOR TO STOP ENGINE.

- 1. Push Clutch/Brake Pedal into full "BRAKE" position.
- 2. Move Motion Control Lever to "N" (Neutral Position).
- 3. Place Parking Brake Lever in "ENGAGED" position and release pressure from Clutch/Brake. Pedal should remain in "BRAKE" position.
- 4. Place Attachment Clutch Switch in "DISENGAGED" position (Fig. 9) and lower attachment with Attachment Lift Lever (Fig. 10).
- 5. Move Throttle Control to "S" (slow) position.
- 6. Turn Ignition Key to "OFF" position and remove key.



REMOVE KEY WHEN LEAVING TRACTOR TO PREVENT UNAUTHORIZED USE. NOTE: MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.

#### TRANSPORTING YOUR TRACTOR

For pushing or towing your Tractor, place Motion Control Lever in "N" (neutral) position (Fig. 9). Move the Free-Wheel Control Rod to "ENGAGED" position (Fig. 9). NOTE: DO NOT TOW YOUR TRACTOR FASTER THAN THREE MILES PER HOUR.

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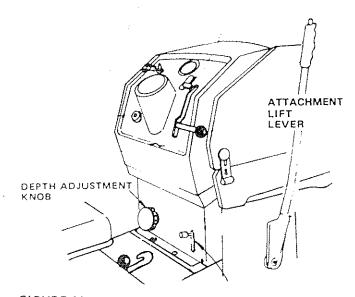


FIGURE 11

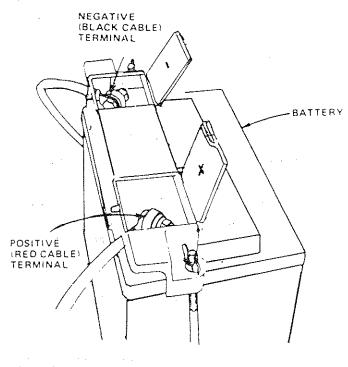
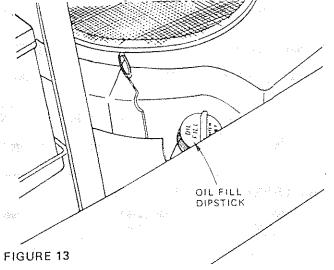


FIGURE 12



#### TRACTOR OPERATION ON HILLS

 Choose the slowest speed BEFORE starting up or down hills.



DO NOT DRIVE UP OR DOWN HILLS WITH SLOPES GREATER THAN 15°, AND DO NOT DRIVE ACROSS ANY SLOPE. REFER TO PAGE 46.

- 2. AVOID STOPPING OR CHANGING SPEEDS ON HILLS.
- a. If slowing is necessary, move Motion Control Lever toward "N" (neutral) position or Throttle Control Lever to middle position.
- b. If stopping is absolutely necessary, push Clutch/Brake Pedal quickly to "BRAKE" position and engage - Parking Brake.
- c. After starting your tractor, disengage Parking Brake and release Clutch/Brake Pedal SLOWLY. To start tractor forward, move Motion Control Lever to desired speed.
- 3. Make all turns gradually.

## STARTING YOUR TRACTOR WITH A WEAK BATTERY

If your Battery is too weak to start engine, it should be recharged. If "Jumper Cables" are used for emergency starting follow this procedure: NOTE: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM, THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM.



LEAD-ACID BATTERIES GENERATE EX-PLOSIVE GASES. KEEP SPARKS, FLAME, AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS WEAR EYE PROTECTION AROUND BATTERIES.

- Open Terminal Access Doors (Fig. 12) to expose terminal connection.
- 2. Connect each end of the RED cable to the POSITIVE (+) terminals of each battery (taking care not to short against chassis) (Fig. 12).
- Connect one end of the BLACK cable to the negative (-) terminal of fully charged battery.
- 4. Connect the other end of the BLACK cable to L.H. Side Panel Bolt (Fig. 10). (away from Gas Tank or Battery).
- 5. Disconnect cables in reverse order:
- a. L.H. Side Panel Bolt (Fig. 10).
- b. Negative terminal of fully charged battery.
- c. Positive terminals.
- 6. Close Terminal Access Doors (Fig. 12).



DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES, MAKE SURE TERMINAL GUARD ACCESS DOORS ARE CLOSED BEFORE STARTING YOUR TRACTOR.

#### REPAIR PARTS

#### 14 H.P. HYDROSTATIC YARD TRACTOR ENGINE--MODEL NUMBER 400707, TYPE NUMBER 1211-01

AIR CLEANER AND CARBURETOR

| NO   |     |        |   |          |        |                                       |
|--|-----|--------|---|----------|--------|---------------------------------------|
| NO. NO. NO. NO. NO. NO. NO.   1   212706   Knob - Air Cleaner   32   262351   Spring - Governor   Lever Assembly - Governor (Inc. Key Nos. 34, 35 & 37)   Not. Hex   10 - 24    Not. Hex   10 - 24   | KEY | PART   | DESCRIPTION                                 | KEY      | PART   | DESCRIPTION                           |
| 3  | NO. | NO.    |   |          |        | 3230,73                               |
| 3  |     |        |   |          |        | :                                     |
| 2   34289   Nut Wing   33   491297   Lever Assembly: Governor (Inc. Key No's 2, 35 & 37)   |     |        |   | 32       | 262351 |                                       |
| 271271   Element - Air Cleaner   31   92278   Wuster   Washer   94166   Screw - Hex Head   36   221289   Washer   94166   Screw - Hex Head   36   261563   Spring - Governor Idle   8   8   491427   Carburetor Assembly (Inc. Key No's 5, 9, 10, 11, 12, 14, 15, 18, 17, 18, 19, 20, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 63 & 63) (Remote Choke)   9   399327   Sorew - Body Assembly - Upper Carburetor   41   93053   Sorew - Hex Head   Sorew - Throttle and Choke   46   271013   Washer - Throttle Shaft   Soriew - Throttle and Choke   47   26157   Sorew - Machine Fill. Hd. (8 · 32 x 5)   Soriey - Throttle and Lever - Choke   12   223534   Valve - Choke   Plug and Seal - Solenoid (Inc. Key No, 68)   Float - Carburetor   52   261395   Sorew - Hex Head Sem   10   231209   Sushing - Throttle Shaft   57   280197   Sorew - Beath - Carburetor and Intake Elbow   Sorew - Sem   Sorew - Hex Head (Carb to Manifold)   Sorew - Hex Head (Carb to Manifold)   Sorew - Hex Head (Carb to Manifold Mounting   61   223714   Sorew - Hex Head (Carb to Manifold Mounting   62   23089   Sorew - Hex Head (Carb to Manifold Mounting   62   230397   Sorew - Hex Head (Carb to Manifold Mounting   62   230397   Sorew - Hex Head (Carb to Manifold Mounting   62   230397   Sorew - Hex Head (Carb to Manifold Mounting   62   230397   Sorew - Hex Head (Carb to Manifold Mounting   63   231339   Sorew - Hex Head (Carb to Manifold Mounting   62   230397   Sorew - Hex Head (Carb to Manifold Mounting   63   231339   Valve - Float Hinge   Valve - Float Hing | 2   |        | •   | 33       | 491297 |                                       |
| 5         223472         Plug· Welch         35         222289         Washer           6         94166         Screw. Hex Head         36         261563         Spring. Governor Idle           7         398826         Body - Air Cleaner         261568         Spring. Governor Idle           8         491427         Carburetor Assembly (Inc. Key No's 5, 7, 91, 11, 12, 14, 15, 16, 17, 18, 19, 20, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 63 & 63) (Remote Choke)         393815         Bolt - Governor Impulse Line and Clamp Assembly (Inc. Key No's 11, 12, 14, 8, 15)         40         393815         Impulse Line and Clamp Assembly (Inc. Key No's 11, 12, 14, 8, 15)         41         93053         Clamp - Fuel Line         420 April Line and Clamp Assembly (Inc. Key No's 11, 12, 14, 8, 15)         44         491538         Clamp - Fuel Line         420 April Line and Clamp Assembly (Inc. Key No's 11, 12, 14, 8, 15)         44         491538         444 Sessembly - Carburetor Idle         55         56, 57, 63 & 63) (Remote Choke)         47         26157         57         44         491538         444 Sessembly - Carburetor Idle         55         271013         444 Sessembly - Carburetor Idle         55         56, 57, 63 & 63) (Remote Choke)         47         26157         56, 57, 63 & 63) (Remote Choke)         47         26157         56         57         58         56         271013         444 Sessembly  |     |        |   |          |        | No's. 34, 35 & 37)                    |
| Screw  |     |        |   | 34       | 92278  | Nut Hex (10 - 24)                     |
| 7   398826   8   30d \tau  Air Cleaner Carburetor Assembly (Inc. Key No's 5, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 63 & 63) (Remote Choke)   41   93053   Clamp Fuel Line and Clamp Assembly (Inc. Key No. 41)     9   399327   |     |        |   | 35       | 222289 | Washer                                |
| Race   | _   |        | Screw - Hex Head                            | 36       | 261563 | Spring - Governor Idle                |
| 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 55, 57, 63 & 63) (Remote Choke)  9 399327   |     |        |   |          | 93853  | Bolt - Governor Lever                 |
| 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 63 & 63) (Remote Choke)   56, 57, 63 & 63) (Remote Choke)   41   93053   Clamp · Fuel Line   + Valve Assembly · Carburetor   44   491538   Shaft and Lever · Throttle   + Valve Assembly · Carburetor   11   93499   Screw · Throttle and Choke   47   26157   Shaft and Lever · Throttle   Shaft   Spring · Throttle Adjustment   Screw · Machine Fill. Hd. (8 · 32 x   5/8)   No. 66)   49   270988   X Diaphragm   X Spring   X  | 8   | 491427 | Carburetor Assembly (Inc. Key No's 5,       | 38       | 261586 | Link - Governor                       |
| 10   271411   + **Gasket - Carburetor (Inc. Key No. 11, 12   14 & 15)   44   491538   491538   491538   491531   49153 |     |        | 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20,  | 40       | 393815 | Impulse Line and Clamp Assembly (Inc. |
| 9   399327   Body Assembly - Upper Carburetor (Inc. Key No's. 11, 12 14 & 15)   44   491538   491538   491538   491538   491538   491538   491538   491531   491538   491531   491538   491531   491538   491531 | Ī   |        | 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, |          |        | · · · · · · · · · · · · · · · · · · · |
| 10   271411   + * Gasket - Air Cleaner   45   392672   Shaft and Lever - Throttle   11   93499   Screw - Throttle and Choke   46   271013   + Washer - Throttle   Masher - Throttle   Ma | ^   | 000007 |   | 4.1      | 93053  | •                                     |
| 10   271411  | 9   | 399327 | Body Assembly - Upper Carburetor            |          |        |                                       |
| 11   93499   Screw - Throttle and Choke   46   271013   +Washer - Throttle Shaft   Valve Mounting Sem   47   26157   Spring - Throttle Adjustment   Screw - Machine Fill. Hd. (8 · 32 x  |     | 0      | (Inc. Key No s. 11, 12, 14 & 15)            |          |        |                                       |
| 11   93499   Screw - Infortite and Choke   Valve Mounting Sem   47   26157   Spring - Throttle Adjustment  |     |        |   | _        |        |                                       |
| 12   223534  | 11  | 93499  |   |          |        |                                       |
| 13   397882   Plug and Seal - Solenoid (Inc. Key No. 66)   49   270988   X Diaphragm   X Spring   X Spring   X Spring   Y Spring   |     |        |   |          |        |                                       |
| 14   392673   Shaft and Lever - Choke   50   261358   x Spring   x Cap - Spring   x Cap - Spring   x Spring  |     |        |   | 70       | 31320  |                                       |
| 14   392673   Shaft and Lever - Choke   50   261358   x Spring   15   271609   +Gasket - Carburetor Body   51   221377   x Cap - Spring   x Spring - Pump   x Spring - Pump  | 13  | 397882 | Plug and Seal - Solenoid (Inc. Key          | 40       | 270000 |                                       |
| 15   271609   +Gasket - Carburetor Body   51   221377   x Cap - Spring     16   298514   Float - Carburetor   52   261395   x Spring - Pump     17   94152   Screw - Hex Head Sem   53   223688   Cover - Diaphragm     18   491531   Body - Lower Carburetor (Inc. Key   55   271025   x Gasket - Carburetor Pump     19   231209   Bushing - Throttle   58   394501   Gasket Set     21   271412   + *Gasket - Carburetor and Intake Elbow     22   93897   Screw - Sem   Screw - Hex Head (Carb to Manifold)     24   280818   Crank - Bell   60   224039   Screw - Intake Manifold Mounting   61   223714     26   93208   Screw - Hex Head   65   231339     27   93970   Screw - Hex Head   66   280474   O-Ring     28   261587   Link - Throttle   66   280474   O-Ring     29   290-107   O-Ring   O-Ring     20   2107   Screw - Hex Head   65   280474   O-Ring     21   22   230896   Screw - Hex Head   66   280474   O-Ring     22   230896   Screw - Hex Head   66   280474   O-Ring     23   23   23   39   30   O-Ring   O-Ring     24   25   25   25   25   25   25   25   |     |        | T 1   | · -      |        | · · · · · · · · · · · · · · · · · · · |
| 16   |     |        |   |          |        |                                       |
| 17   94152   Screw - Hex Head Sem  |     |        |   |          |        |                                       |
| 18   |     |        | Float - Carburetor                          |          | 20,000 |                                       |
| 18   | 17  | 94152  |   |          |        |                                       |
| No's, 11, 19, 20, 45 & 46)   56   270989   x Diaphragm - Damping   |     |        |   |          |        |                                       |
| 19   231209   Bushing - Throttle Shaft   57   280197   Body · Pump   | 18  | 491531 | Body - Lower Carburetor (Inc. Key           |          |        |                                       |
| 20   223370  |     |        |   |          |        |                                       |
| 21   271412   +*Gasket - Carburetor and Intake Elbow   59   394019   Cartridge - Air Cleaner   NOTE: USE 271197 GASKET BELOW   CARTRIDGE   CARTRIDGE | 19  | 231209 | Bushing - Throttle Shaft                    |          |        |                                       |
| 22   93897   Screw - Sem   Screw - Sem   CARTRIDGE   |     | 223370 |   |          |        |                                       |
| 23   93971   Screw - Hex Head (Carb to Manifold)   60   224039   Shield Spitback   | 21  | 271412 | +*Gasket - Carburetor and Intake Elbow      | 59       | 394019 |                                       |
| 24   |     | 93897  |   |          |        |                                       |
| 24     280818     Crank - Bell     60     224039     Shield Spiloack       25     270884     + Gasket - Intake Manifold Mounting     61     223714     Cartridge Plate - Air Cleaner       26     93208     Screw - Intake Manifold Mounting     62     230896     + Pin - Float Hinge       Sem     63     394681     + Valve - Fuel Inlet       27     93970     Screw - Hex Head     65     231339     Jet - Needle Valve       28     261587     Lipk - Throttle     66     280474     O-Ring  | 23  | 93971  | Screw - Hex Head (Carb to Manifold)         |          |        |                                       |
| 26 93208 Screw - Intake Manifold Mounting 62 230896 + Pin - Float Hinge 63 394681 + Valve - Fuel Inlet 27 93970 Screw - Hex Head 65 231339 Jet - Needle Valve 28 261587 Link - Throttle 66 280474 O-Ring   |     | 280818 | Crank - Bell                                |          |        |                                       |
| 26 93208 Screw - Intake Manifold Mounting 62 230896 + Pin - Float Hinge 63 394681 + Valve - Fuel Inlet 65 231339 Jet - Needle Valve 28 261587 Link - Throttle 66 280474 O-Ring   |     |        | +Gasket - Intake Manifold Mounting          |          |        |                                       |
| Sem  | 26  | 93208  | Screw - Intake Manifold Mounting            |          |        |                                       |
| 28 261587 Link Throttle 66 280474 O-Ring   |     |        | Sem   |          |        |                                       |
|  | 27  | 93970  | Screw - Hex Head                            |          |        |                                       |
|  | 28  | 261587 | Link - Throttle                             | 67       |        |                                       |
| 29 280319 Spacer Carburetor 60 26027 Crank, Bell   |     |        |   |          |        |                                       |
| 30 213290 Manifold Accombly Intaka   | 30  | 213290 | Manifold Assembly - Intake                  |          |        |                                       |
| 31 93949 Screw Sem   | 31  | 93949  | Screw - Sem                                 |          |        |                                       |
| 74 491539 Carburetor Overhaul Kit  |     |        |   |          |        | Carburetor Overhaul Kit               |
| 75 94298 Nut - Square<br>76 223882 Washer  |     |        | **************************************      | /5<br>76 |        |                                       |
|  |     |        | :   |          |        |                                       |
| 77 262337 Spring - Compression<br>78 94297 Screw - Panhead   |     |        |   | 78       |        | Screw - Panhoad                       |
| 79 491282 Bracket - Speed Control  | •   |        |   |          | 4.4    | Bracket - Speed Control               |

<sup>\*</sup>INCLUDED IN GASKET SET - PART NO. 394501

<sup>+</sup>INCLUDED IN CARBURETOR OVERHAUL KIT PART NO. 491539

xINCLUDED IN CARBURETOR OVERHAUL KIT - PART NO. 491539 AND PUMP REPAIR KIT - PART NO. 393397

14 H.P. HYDROSTATIC YARD TRACTOR
ENGINE--MODEL NUMBER 400707, TYPE NUMBER 1211-01 ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE AIR CLEANER AND CARBURETOR PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER. 1 79 ₿-31 58 GASKET SET 73 PUMP REPAIR KIT 74 CARBURETOR OVERHAUL KIT 8 23 (S)100 65 **46** 13 O 37 **35 6**34 36

#### TRACTOR MAINTENANCE INSTRUCTIONS

Mower Maintenance is listed on page 18. To keep your tractor running better, longer, perform necessary service using the following Maintenance Schedule.



DISCONNECT SPARK PLUG WIRES TO PREVENT ACCIDENTAL STARTING BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR (EXCEPT CARBURETOR). BE CARFEUL TO AVOID TOUCHING HOT MUFFLER OR ENGINE COMPONENTS.

#### **DAILY MAINTENANCE**

Make sure all nuts and bolts are tight and cotter pins are secure. Observe all safety precautions. Keep Tractor well lubricated (refer to page 15).

#### FIRST 2 HOURS

1. CHANGE ENGINE OIL

Changing Oil after the first two hours will help eliminate break-in residue which might be damaging to your Engine. NOTE: BE CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHANGING OIL.

- a Drain Oil with Engine warm. Loosen Oil Drain Plug (Fig. 14) and remove dipstick (Fig. 13). Catch Oil in a suitable container. Replace Plug.
- b. Refill Engine Oil. (See chart, page 6) Refill capacity is 3 pints. NOTE: DO NOT OVERFILL. Replace Dipstick.

#### DAILY OR EVERY & HOURS

1 CHECK ENGINE OIL LEVEL

NOTE: DO NOT CHECK ENGINE OIL LEVEL WITH ENGINE RUNNING.

Wipe dipstick (Fig. 13). clean, push it down tight for a few seconds, remove and read Oil Level. If necessry, add Oil until "FULL" mark is reached. (See chart, page 6). NOTE: DO NOT OVERFILL.

#### EVERY 25 HOURS

1. CHECK BRAKE OPERATION

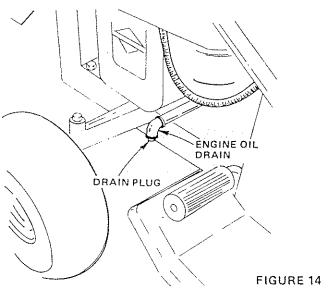
This Tractor is with an adjustable disc Brake mounted on the right side of the transaxle (Fig. 16).

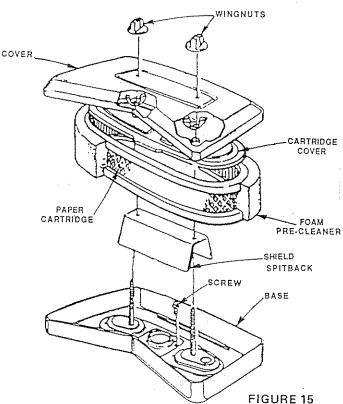


IF TRACTOR REQUIRES MORE THAN SIX FEET STOPPING DISTANCE AT HIGHEST SPEED THEN BRAKE MUST BE ADJUSTED.

NOTE: A 1/2 INCH WRENCH AND A FEELER GAUGE ARE REQUIRED TO ADJUST BRAKE.

- a. Depress Clutch/Brake Pedal and engage Parking Brake,
- Measure distance between Brake Operating Arm and Nut "A" on Brake Rod.
- c. If distance is other than 1-1/2", loosen Jam Nut (Fig. 16) and turn Nut "A" until distance becomes 1-1/2". Retighten Jam Nut against Nut "A".
- d. Engage Parking Brake and recheck distance. Road test Tractor for proper stopping distance as stated above. Readjust if necessary.





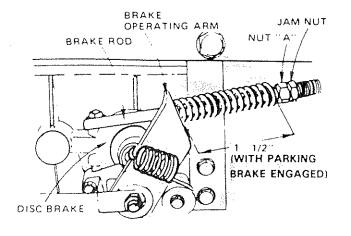
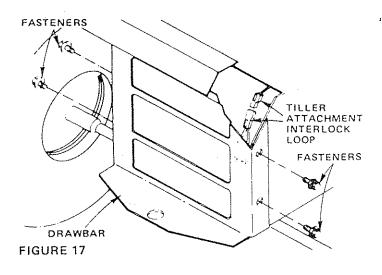
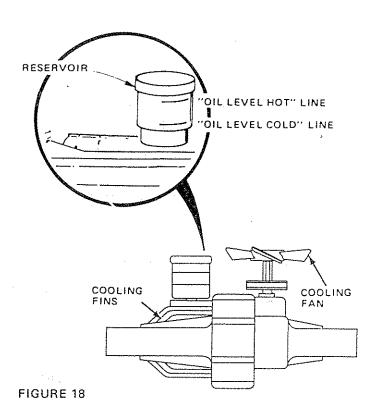
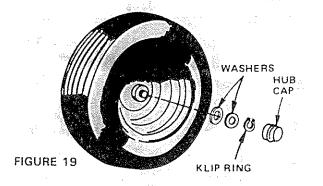


FIGURE 16

Assemblies include all parts shown in frames.







- 2. CHECK PUMP ASSEMBLY FLUID LEVELS NOTE: BEFORE CHECKING OIL LEVEL, CLEAN RESERVOIR AND CAP WITH CLOTH TO REMOVE DUST OR GRASS CLIPPINGS.
  - a. Using a 9/16" wrench to remove 4 fasteners to remov Drawbar (Fig. 17).
  - Disconnect Tiller Attachment Interlock Loop (Fig. 17).
  - Check for proper fluid level in reservoir.
  - Fluid level should be above the "OIL LEVEL COLD" line
  - e. Remove cap on reservoir, and bladder (Fig. 18), and fill to "Oil Level Cold" line with SAE 10W30.
    NOTE: RESERVOIR CAP IS REMOVED WITH A CLOCKWISE ROTATION.
  - f. Replace Cap until snug (Do not over tighten).

#### 3. CHECK HYDROSTATIC TRANSMISSION COOLING

DO NOT ATTEMPT TO CLEAN FAN OR TRANSMISSION WHILE ENGINE IS RUNNING OR WHILE HYDROSTATIC TRANSMISSION IS HOT.

- a. Inspect Cooling Fan (Fig. 18) to assure fan blades are intact and clean.
- b. Inspect Coolings Fins (Fig. 18) for dirt, grass clippings and other material that could hinder fan air from properly cooling transmission.
- c. Thoroughly clean the Coolings Fins with a cloth, brush or compressed air.

#### 4. TIRE CARE

- a. Maintain tire pressure in front at 14 PSI and rear tires
- b. Keep tires free of gasoline, oil, or insect control chemicals which can destroy rubber.
- c . Avoid stumps, stones, deep ruts and other hazards that may cause tire damage.
  d. Removing front wheel for tire repair (Fig. 19).
- - --- Block up front axle securely
  - --- Remove Hub Cap, Klip ring and Washer to allow wheel removal
  - --- Repair tire and reassemble. Replace washers and snap Klip Ring securely in axle groove. Replace Hub Cap.
- e. Removing rear wheel for tire repair.
  - --- Block up rear axle securely.
  - --- Remove Hub Cap, Klip Ring and Washers to allow wheel removal.
  - --- Repair tire and reassemble. Replace Tire, Washers, Klip Ring and Hub Cap.



WHEN MOUNTING TIRES, UNLESS BEADS ARE SEATED, OVERINFLATION CAN CAUSE A FATAL EXPLOSION.

#### REPAIR PARTS

#### 14 H.P. HYDROSTATIC YARD TRACTOR ENGINE--MODEL NUMBER 400707, TYPE NUMBER 1211-01

CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

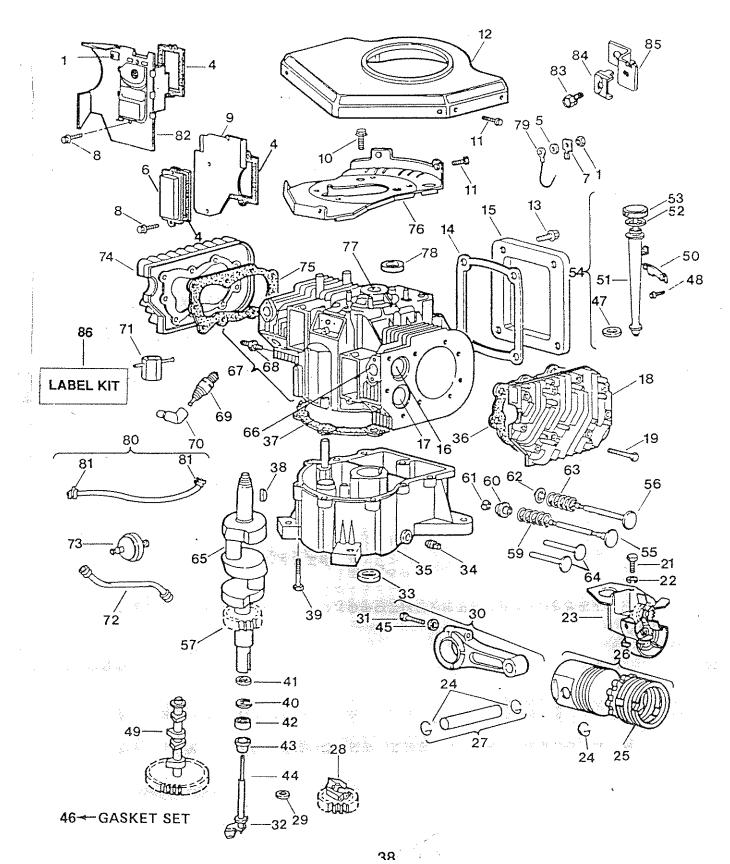
| KEY<br>NO. | PART<br>NO.    | DESCRIPTION                             | KEY<br>NO     | PART<br>NO.         | DESCRIPTION                            |
|------------|----------------|---|---------------|---------------------|--|
| 1          | 90576          | Nut - Hex 8 - 32                        | 40            | 94296               | Ratainer E Ring                        |
| 4          |                | *Gasket - Valve Cover                   | 41            | 491287              | Retainer - E-Ring                      |
|            | 27803<br>92791 |   | 42            | 261560              | Foam Seal - Governor Shaft             |
| 5 ,        |                | Washer - Lock, Shakeproof               |               |                     | Upper Bushing - Governor               |
| 6          | 222892         | Cover - Breather Cylinder No. 2         | 43            | 262332              | Lower Bushing - Governor               |
| 7          | 93722          | Terminal - Spade                        | 44            | 491530              | Crank - Governor                       |
| 8          | 93394          | Screw - Sem                             | 45            | 220863              | Washer - Governor Crank (Inside)       |
| 9          | 222912         | Baffle - Air                            | 46            | 394501              | Gasket Set                             |
| 10         | 93777          | Screw - Hex Head (Back Plate to         | 47            | 271157              | Seal - Filler Tube                     |
|            |                | Cylinder)                               | 48            | 93469               | Screw - Hex Head                       |
| 11         | 93158          | Screw - Sem                             | 49            | 212968              | Gear - Cam                             |
| 1.2        | 491247         | Housing - Blower                        | 50            | 222875              | Clamp · Oil Filler                     |
| 13         | 93882          | Screw - Crankcase Cover Mtg. Sem        | 51            | 280224              | Tube · Oil Filler                      |
| 14         | 270981         | *Gasket - Crankcase                     | 52            | 271170              | Seal - Oil Filler Cap                  |
| 15         | 222860         | Cover Plate - Crankcase                 | 53            | 394020              | Cap and Dipstick · Oil Filler          |
| 16         | 261463         | + Seat - Intake Valve (Standard)        | 54            | 394394              | Dipstick and Tube Assembly (Inc. Key   |
| 17         | 210940         | + Seat - Exhaust Valve (Standard)       | <del></del> . |                     | No's, 47, 48, 50, 51, 52 & 53)         |
|            |                | •                                       | 55            | 390420              | Valve - Exhaust                        |
| .18        | 212462         | Head - Cylinder No. 2                   | 56            | 261528              | Valve - Intake                         |
| 19         | 93211          | Screw - Cylinder Hd. (2 21/32 Lg.)      | 57            | 231445              | Gear - Timing                          |
| 2 1        | 93686          | Screw - Hex Head (10 - 32 x 5/8)        | 59            | 26828               |  |
| 2.2        | 92290          | Washer - Lock (No. 10 x 1/16 x          | 59<br>60      |                     | Spring - Exhaust Valve                 |
|            | +              | 3/64)                                   |               | 292260              | Rotocoil - Exhaust Valve               |
| 2.3        | 393415         | Oil Slinger Assembly                    | 61            | 93630               | Retainer - Exhaust Valve Rotocoil [2]  |
| 24         | 260924         | Lock - Piston Pin                       | 62            | 221596              | Retainer - Intake Valve                |
| 25         | 394959         | Ring Set - Piston (Standard)            | 63            | 65906               | Spring - Intake Valve                  |
| 25         |                | Ring Set - Piston (.010" O.S.)          | 64            | 26 1368             | Tappet · Valve                         |
|            | 394960         |   | 65            | 393382              | **Crankshaft                           |
| 2.5        | 394961         | Ring Set - Piston (.020" O.S.)          | 66            | 261961              | +Guide - Exhaust Valve                 |
| 25         | 394962         | Ring Set - Piston (.030" O.S.)          | 67            | 491730              | Cylinder Assembly (Inc.Key No's 77&78) |
| 26         | 394955         | Piston Assembly (Standard) (Inc. Key    | 68            | 230318              | Connector - Impulse Pump               |
|            |                | No's. 24 & 25)                          | 69            | 394539              | Plug - Spark (Resistor)-Champion RJ-12 |
| 26         | 394956         | Piston Assembly (.010" O.S.)            |               |                     | or equivalent                          |
| 2.6        | 394957         | Piston Assembly (.020" O.S.)            | 70            | 66538               | ·                                      |
| 26         | 394958         | Piston Assembly (.030" O.S.)            | 71            |                     | Elbow - Spark Plug                     |
| 27         | 299691         | Pin Assembly - Piston (Standard)        |               | 89838               | Wrench - Spark Plug                    |
|            |                | (Inc. Key No. 24)                       | 72            | 280225              | Tube Breather                          |
| 27         | 391286         | Pin Assembly - Piston (.005" O.S.)      | 73            | 394358              | Filter - Fuel (In Fuel Line to         |
| 28         | 394348         | Gear - Governor                         | 2.            | 040404              | Tank)                                  |
| 29         | 222773         | Washer - Thrust                         | 74            | 212461              | Head - Cylinder No. 1                  |
| 30         | 393270         | Rod Assembly - Connecting (Inc. Key     | 75            | 271867 <sup>-</sup> | *Gasket - Cylinder                     |
| 00         | 555275         | No's. 31 & 32)                          | 76            | 491304              | Back Plate Assembly                    |
|            |                | NOTE: FOR CONNECTING ROD                | 77.           | 399265              | + Bearing - Cylinder                   |
|            |                | WITH .020" UNDERSIZE CRANK-             | 78            | 391086              | Seal - Oil                             |
|            |                |   | 79            | 391115              | Wire - Ground                          |
|            | 00000          | PIN BORE - ORDER NO. 393714             | 80            | 299146              | Line - Fuel (Inc. Key No. 81)          |
| 3 1        | 92909          | Screw - Connecting Rod                  | 81            | 93053               | Clamp - Fuel Line                      |
| 3 2        | 223882         | Washer, Governor Crank                  | 82            | 393370              | Breather Assembly No. 1                |
| 33         | 291675         | Seal - Oil                              | 83            | 93496               | Screw - Hex Hd.                        |
| 34         | 91084          | Plug - Oil Drain                        | 84            | 221535              | Clamp - Casing                         |
| 35         | 393552         | Base Assembly - Crankcase               | 85            | 223890              | Bracket - Choke Cable                  |
| 36         | 271868         | *Gasket - Cylinder Head No. 2           | 86            | 491260              | Label Kit                              |
| 37         | 271142         | *Gasket - Crankcase Cover (1/64" thick) | ~~            |                     |  |
| 37         | 271188         | *Gasket - Crankcase Cover (.005" thick) |               | *INCLUDE            | D IN GASKET SET 394501                 |
| 37         | 271189         | *Gasket - Crankcase Cover (.009" thick) |               |                     | TOOLS REQUIRED TO INSTALL              |
| 38         | 222698         | Key - Flywheel                          |               | OFCUIAL             | TOOLS RECOTTED TO HVOTALE              |
| 39         | 93585          | Screw - Hex Hd. Sem                     |               | ** Order 0410       | 96 Key for Timing                      |
| JJ         | 33300          | Sold Front Har Cont                     |               | Coor Poto           | ining Device                           |
|            |                |   |               | Gedi Heigi          | inid havina                            |

Key 66 NOTE: 231218 Guide Intake (Brass)

#### 14 H.P. HYDROSTATIC YARD TRACTOR ENGINE--MODEL NUMBER 400707, TYPE NUMBER 1211-01

CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

ALL ENGINE PARTS MUST BE PUR-CHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



#### EVERY 50 HOURS



## WEAR SAFETY GLASSES IF USING COMPRESSED AIR.

#### 1. CLEAN AIR SCREEN

Air Screen (Fig. 21) must allow free-flow of air to prevent engine damage from overheating. Clean with a wire brush, compressed air or water pressure to remove dirt, chaff, stubborn dried gum and fibers.

#### 2. CLEAN ENGINE COOLING SYSTEM

Grass, oil or dirt may clog the air cooling system, especially after prolonged service cutting dry grasses. To avoid overheating and engine damage, remove the Blower Housing and clean the area shown in Fig. 21. (Inset)

#### 3. LUBRICATE STEERING AND FRONT WHEELS

There is a grease fitting on each front wheel and axle spindle. Using a grease gun: give each grease fitting two shots of Extreme Pressure Lubricating Grease Amdex No. 1 or equivalent (Fig. 22).

#### 4. OIL PIVOT POINTS

Place several drops of S.A.E. 30 Oil at points where parts move against each other, especially:

- a. Hood Hinges
- b. Foot Pedal Shaft (both ends)
- C. Lift Shaft (both ends)

#### SEE LUBRICATION CHART, PAGE 15.

#### 5. CHECK BATTERY

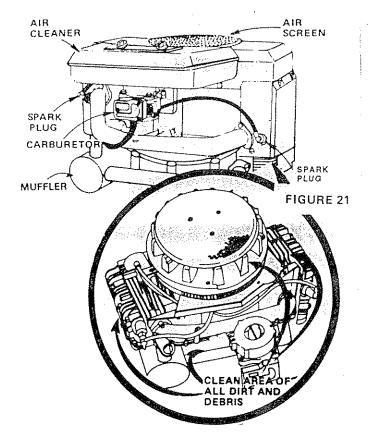
- a. Battery acid level in each battery cell should be even with bottoms of tubes in cells (Fig. 23). Add distilled water if necessary, NOTE: DO NOT OVERFILL.
- b. Keep Battery and Terminals clean. Refer to step 6.
- c. Keep Battery Bolt tight.
- d. Keep Vent Caps tight and small vent holes in Caps open.
- e. Recharge at 6 amperes for 1 hour.

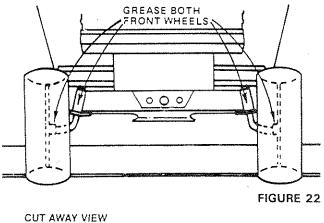
#### 6. CLEAN BATTERY AND TERMINALS

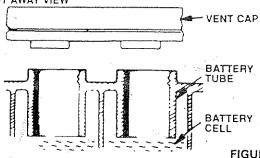
Corrosion and dirt on the Battery and Terminals cause the Battery to "Leak" power and hinders the operation of the charging system.

- a. Remove the Battery from the Tractor and wash with four tablespoons of baking soda to one gallon of water. NOTE BE CAREFUL NOT TO GET THE SODA SOLUTION IN-TO THE CELLS. Rinse the Battery with plain water, dry and reinstall on Tractor.
- b. Clean terminals and cable ends with a wire brush until bright. Replace Battery Cables. Coat terminal connections with Petroleum Jelly
- 7. CLEAN AIR CLEANER FOAM PRE-CLEANER (FIG. 15). (OPERATING IN DUSTY CONDITIONS MAY REQUIRE MORE FREQUENT SERVICING)
  - a. Remove Wing Nuts and Cover.
  - b. Remove Foam Pre-Cleaner element by sliding it off of the Paper Cartridge.
  - c. Wash Foam Pre-Cleaner in liquid detergent and water.
- d. Wrap Foam Pre-Cleaner in cloth and squeeze dry.
- e. Saturate Foam Pre-Cleaner in engine oil. Squeeze to remove excess oil.
- f. Install Foam Pre-Cleaner over Paper Cartridge. Reassemble Cover and Screw down tight.

Yearly or every 100 hours, whichever occurs first, remove Paper Cartridge. (Service more often if necessary). Clean by tapping gently on flat surface. If very dirty, replace Cartridge.







CAUTION: PETROLEUM SOLVENTS ARE NOT TO BE USED TO CLEAN PAPER CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE. DO NOT OIL PAPER CARTRIDGE. DO NOT USE PRESSURIZED AIR.

NOTE: NEVER RUN ENGINE WITH AIR CLEANER REMOVED.

#### 8. CHANGE ENGINE OIL

The best time to drain Engine oil is at the end of a day's operation when all dirt and foreign materials are suspended in the hot Oil. See oil chart, page 6.

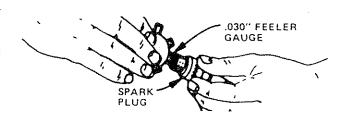


FIGURE 24

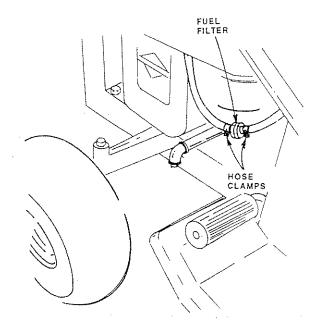
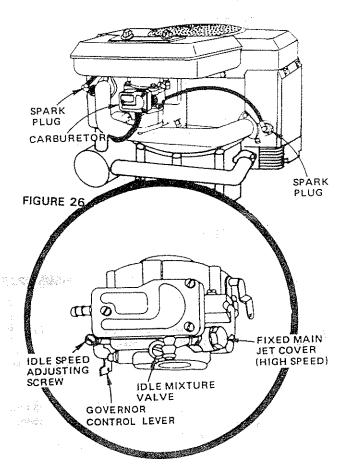


FIGURE 25



#### 9. MUFFLER

Do not operate the tractor without Muffler (Fig. 21) or tamper with the exhaust system. Damaged Mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary. If your engine is equipped with a spark arrester screen assembly, remove every 50 hours for cleaning and inspection. Replace if damaged.

#### EVERY 100 HOURS

#### 1. REPLACE SPARK PLUGS

Replace Spark Plugs at the beginning of each season or every 100 hours, whichever comes first. Gap should be set at .030 INCH (Fig. 24).

- 2. REPLACE AIR CLEANER PAPER CARTRIDGE Refer to step 7, under Every 50 Hours.
- 3. REPLACE AIR CLEANER FOAM PRE-CLEANER Refer to Step 7, under Every 50 Hours.

#### **EVERY 200 HOURS**

#### 1. REPLACE IN-LINE FUEL FILTER

- a. With Engine cool, remove Hose Clamps from Fuel Lines at Fuel Filter (Fig. 25)
  b. Remove filter and plug Fuel Line Sections as removed from both ends of Fuel Filter. (Fig. 25)
  c. Place New Fuel Filter in position with fuel line (arrow on side of filter in dispersion of Fuel Filter).
- side of filter in direction of Fuel Flow) and reinstall Hose Clamps.



BE SURE THERE ARE NO FUEL LINE LEAKS AND THAT HOSE CLAMPS ARE PROPERLY INSTALLED.

#### AS NEEDED

- 1. THROTTLE CONTROL CABLE ADJUSTMENT
  Never attempt to change maximum engine speed. This is preset at the factory (3600± 100 rpm) and should only be changed by a qualified service technician who has the necessary equipment.
  - Remove hood, page 21.
  - Loosen casing clamp screw until throttle cable is free to move.
  - Move throttle control (on the dashboard) to "Fast"
  - Pull throttle cable tight (until swivel is against side of quarter circle below carburetor.) Retighten casing clamp screw.

#### 2. CARBURETOR ADJUSTMENT

NOTE: ADJUST THROTTLE CONTROL CABLE BEFORE MAKING ANY ADJUSTMENT TO CARBURETOR. AIR CLEANER MUST BE ASSEMBLED TO CARBURETOR WHEN RUNNING ENGINE.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature or attitude. Adjust the carburetor fuel mixture as follows:

- Gently turn the idle mixture valve clockwise ( ~ Fig. 26 until it just closes and then counterclockwise ( ) 1-1/2 turns. CAUTION: Valve may be damaged if turned in too far.
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and choke pushed in.

REFER TO "STARTING THE ENGINE" PAGE 7.

# H.P. HYDROSTATIC YARD TRACTOR 14 A PART PART

R121431X

486.

TRANSAXLE

| DESCRIPTION | Nut, Castle 5/16 - 24 | Washer, Flat .343 x .88 x .062 | Pin Brake Actuation | Brake, Yoke   | Disc, Brake        | Key 3/16 x 5/8 | Screw, Hex 1/4 - 20 x 1.50 | Plate, Puck     | Puck, Brake    | Screw, Hex W/Patch 1/4 - 20 x | 2.00        | Screw, Hex Selt-Tap 1/4 - 20 x | 2.00            | Screw, Hex Self-Tap 1/4 - 20 x | 3.00         | Bearing, Ball | Bearing, Ball     | Shaft, Pinion N/11 Tooth Gear | Shaft, Drive             | Bearing, Needle | Bronze Thrust Brg. 5/8 x 1-1/4 x | 7/64       | Washer, Flat .62 - 1.0 × /040 | Spacer                 | Coupling        | Gear, 60 & 17 Tooth | Nut, Hex 1/4 - 20              | Gear, Drive Pinion 17 Tooth | Bolt, Square Head           | Washer 15/16 x .265 x .125 | Washer 1/4" Spring Lock | Pin, Roll 3/16" x 1/2" Lg. | Washer, Flat 5/8 x 1 - 1/8 x .060 | Washer, Flat 5/8 x 1 x .050  | Pin, Dowel 3/32 x 1/4 | Seal, Grease | Transaxle Assy. Complete |
|-------------|-----------------------|--------------------------------|---------------------|---------------|--------------------|----------------|----------------------------|-----------------|----------------|-------------------------------|-------------|--------------------------------|-----------------|--------------------------------|--------------|---------------|-------------------|-------------------------------|--------------------------|-----------------|----------------------------------|------------|-------------------------------|------------------------|-----------------|---------------------|--------------------------------|-----------------------------|-----------------------------|----------------------------|-------------------------|----------------------------|-----------------------------------|------------------------------|-----------------------|--------------|--------------------------|
| KEY PART    |                       | 31 122659X<br>32 122660X       |                     | •             |                    | •              |                            | -               | •              | 40 123066X                    |             | V0/0771 1+                     |                 | 42 1226/1X                     | ٠            | 43 122672X    | <del></del>       | Υ-                            | -                        | ₹               | 48 123060X                       | •          |                               |                        | ··· •           | · ·                 | , ·                            | , ,                         |                             | _                          | <del></del>             | _                          | 59 122678X                        | 123061X                      | _                     | 61 123063X   | 121431X                  |
| , panel 6   | <b>.</b>              |                                |                     |               |                    |                |                            |                 |                |                               | ,           |                                |                 |                                |              |               |                   |                               |                          |                 |                                  |            |                               |                        |                 |                     |                                |                             |                             |                            |                         |                            |                                   |                              |                       |              |                          |
| DESCRIPTION | Housing, Half L.H.    | Axle L.H.                      | Axle R.H.           | Bearing, Ball | washer, Flat 3/4 x | Coor Mitor     | Gear Miter                 | Nut hex .lam W/ | Patch 1/2 - 20 | Shaft, Cross                  | Screw, Stud | Snap Ring                      | Bearing, Thrust | Housing Assembly               | Differential | Doning Floor  | Cost Differential | 70 Tooth                      | Coron Day ha W/Datch 100 | 20 < 500 La     | Shaft, Input                     | Snap, Ring | Retaining Ring 7/16"          | Housing, Inout Bearing | Bearing, Needle | Bearing, Thrust     | Washer, Flat 5/8 x 1-1/8 x 030 | Kev #4, 3/32 x 5/8          | Screw Hex W/Patch 1/4 v 3/4 | Gear Innit Pinion 17 Tooth | Weeker Flat 62 10 c 000 | Washer, Flat 62 1.0 X .050 | Machar Elst en 4 ou oug           | Masifel, Flat.02 - 1.0 X.040 | Pin, Cotter           |              |                          |
|             |                       |                                | No                  |               |                    |                |                            |                 |                |                               |             |                                |                 |                                |              |               | ,                 |                               |                          |                 | `                                |            |                               |                        |                 | ÷                   |                                | -                           |                             |                            |                         |                            |                                   |                              |                       |              |                          |
| PART<br>NO. | 122614X<br>122615X    | 122616X                        | 122620X             | 122621X       | 1220221            | 122623X        | 122624X                    | 122625X         |                | 122626X                       | 122688X     | 122629X                        | 122631X         | 122633X                        |              | 100694Y       | 1226707           | V0+0471                       | 1006417                  | V1+0471         | 122642X                          | 122643X    | 122644X                       | 122645X                | 122646X         | 122647X             | 122648X                        | 122649X                     | 122650X                     | 122651X                    | 100650X                 | 122032A                    | 1006547                           | 10065                        | Y969771               |              |                          |
| KEY<br>No.  | - N                   | က                              | ₹ 1                 | က ပ           | 0                  | 7              | - α                        | o               |                | 10                            | ~~<br>~~    | 72                             | 5               | 7                              |              | ř.            | <u> </u>          | 2                             | 1.                       | -               | \$                               | 19         | 20                            | \$ 21                  | № 22            | , 23                | ± 24                           | 25                          | 26                          | 27                         | άς                      | ; ;                        | ;                                 | ç                            | S.                    |              |                          |

REPAIR PARTS
14 H.P. HYDROSTATIC YARD TRACTOR
AGRI - FAB TRANSAXLE NUMBER 486. R121431X

20

c. Move throttle control lever (on the dashboard) to "SLOW" position.

d. Hold governor control lever against idle Adjusting Screw and adjust idle speed screw to obtain 1200 to 1400 rpm. (Fig. 26A).

While stall holding the governor control lever against

While still holding the governor control lever against idle stop, turn idle mixture valve <u>slowly</u> clockwise
 ( ) (lean mixture) until speed <u>just</u> starts to slow. Then turn valve <u>slowly</u> counter-clockwise ( ) (rich mixture) until speed <u>just</u> starts to slow.

. Turn idle mixture valve back to the midpoint between rich and lean.

g. Adjust the idle speed screw to obtain 900 to 1200 rpm. Release governor control lever.

h. Move throttle control (on the dashboard) to "FAST". If engine hesitates or dies, turn idle mixture valve approximately 1/8 turn counterclockwise ( ) until engine will accelerate as throttle control is moved from "SLOW" to "FAST".

NOTE: ALL ABOVE SPEED AND FUEL MIXTURE ADJUSTMENTS MUST BE DONE WITH THE GOVERNOR CONTROL LEVER HELD AGAINST THE IDLE SPEED SCREW AND AT SPEEDS NOTED, AND CHOKE PUSHED IN.

- REPLACE TRACTOR MOTION DRIVE BELT
   Park the tractor on level area. Engage Parking Brake.
   NOTE: BELT INSTALLATION DECAL UNDER LEFT FOOT REST
  - a. Remove Mower (See Mower Section) (Page 20).
  - b. Remove Belt from Stationary Idler (Fig. 27).
  - c. Pull belt over top of Clutching. Pulley.
  - d. Release Parking Brake. Pull Belt over top of Clutching Pulley (Fig. 27).
  - e. Place top side of Belt between blades of fan and rotate fan (Fig. 28). Remove Belt from Input Pulley (Fig. 28).
  - f. Using a 9/16" wrench, remove Clutch Locator (Fig. 27 Inset).
- g . Disconnect Clutch Wire Harness. Rotate Clutch housing and Remove belt from ground drive pulley and belt keepers.
- h. Install Belt by reversing above procedure.NOTE: REPLACE ONLY WITH BELT LISTED IN REPAIR PARTS SECTION OF THIS MANUAL.
- 4. CLEAN BATTERY AND TERMINALS
  Corrosion and dirt on the Battery and Terminals cause the
  Battery to discharge.

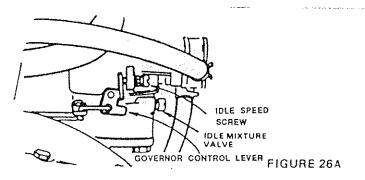


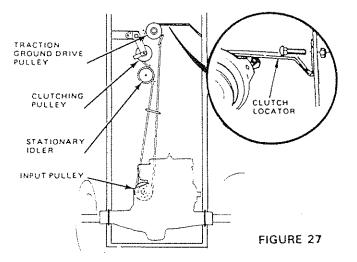
LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS, FLAME, AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS SHIELD YOUR EYES AROUND BATTERIES.

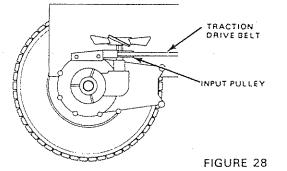
- a. Remove Terminal Guard (Fig. 29).
- Disconnect BLACK Battery Cable first then RED Battery Cable and remove Battery from Tractor. Wash Battery with four tablespoons of baking soda to one gallon of water. NOTE: BE CAREFUL NOT TO GET THE SODA SOLUTION INTO CELLS. Rinse the Battery with plain water, dry and reinstall on Tractor.
- c. Clean Terminals and Battery Cable ends with a wire brush until bright. Replace Battery Cables, connecting RED Battery Cable to Positive Terminal first, then BLACK Battery Cable to Negative Terminal (Fig. 29). Coat Terminal Connections with Vasoline.
- d. Replace Terminal Guard.

#### 5. FINISH

Keep tractor finish area and seat free of gasoline, oil, insect chemicals or battery acid (electrolyte). Protect painted surfaces with automotive type wax.







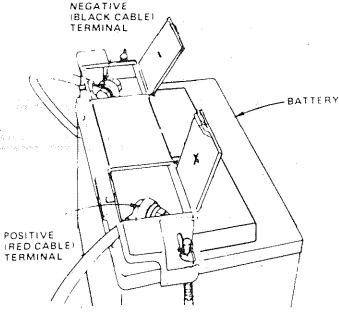


FIGURE 29

## **TROUBLESHOOTING**

| PROBLEM  | POSSIBLE REMEDY   |
|--|---|
| WILL NOT START   | Fill Tank with Gasoline. Check Fuel Line and Carburetor<br>(clean if necessary) Replace Fuel Filter. Use Fresh Fuel<br>Recharge or replace Battery<br>Check Wiring<br>Replace Spark Plug(s) and adjust gap<br>Drain and replace oil for proper temperature  |
| WILĹ NOT TURN OVER   | Push clutch/brake pedal into brake position Move attachment clutch switch to "disengaged position" Charge Battery Check fuse for fault and replace Check All Wire Connections Replace Ignition Switch Engage Interlock Switch Replace Solenoid  |
| ENGINE CLICKS BUT WON'T START  | Reattach Tiller Attachment Wire Loop  Clean Battery Terminals Replace Solenoid or Starter Charge or Replace Battery Check all wire Connections and "ground" points.   |
| HARD TO START  | Place Throttle Control in "FAST" position and run starter several times to clear out gas Remove and clean Tank and lines. Replace Fuel Filter Remove Air Filter and clean Replace Spark Plug(s) and adjust gap Recharge or replace Battery Check the wiring and Spark Plug(s) Drain Fuel Tank and Carburetor, use fresh fuel and replace Spark Plug(s) Make necessary adjustments to Carburetor Major Engine Overhaul Use proper oil for cold weather conditions. |
| ENGINE MISSES OR LACKS POWER   | Shift to a lower gear or reduce load Check Spark Plug(s) and check for loose wires Replace Spark Plug(s) and adjust gap Remove and clean Air Cleaner Clean Air Screen Drain Fue Tank & Carburetor, use fresh fuel Replace Fuel Filter Make necessary carburetor adjustments Add or change oil Major Engine overhaul   |
| ENGINE OVERHEATS   | Clean Air Screen<br>Add or change oil<br>Clean Engine Cooling Fins<br>Remove and clean Muffler or replace<br>Remove and clean Air Filter<br>Use fresh fuel and adjust Carburetor  |
| NO LIGHTS  | Check Fuse, Switch and wire connections. Replace headight bulbs.  |
| WON'T CHARGE   | Check fuse for fault and replace<br>Replace Battery<br>Replace Diode Assembly<br>Replace Alternator   |
| OPERATOR PRESENCE SYSTEM WILL NOT SHUT DOWN ENGINE WHEN OPERATOR LEAVES SEAT NOTE: This tractor is equipped with an operator presence sensing system. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut down the engine. | Engage attachment clutch Check all wire connections Check seat switch Check operator presence relay. Check attachment clutch switch.  |
| TRACTOR WILL NOT ADVANCE   | Free Wheel Knob is depressed<br>Add fluid to pump<br>Replace motion control drive belt or correct routing<br>Replace clutch spring for traction drive belt  |
| UNSATISFACTORY MOWER PERFORMANCE<br>UNEVEN DISTRIBUTION OF CLIPPINGS   | Check air pressure in tires Check front to rear and side to side mower adjust- ment Use a slower ground speed Replace mower blades Reinstall mower blades with top of blade up Clean underside of mower deck  |

#### **REPAIR PARTS**

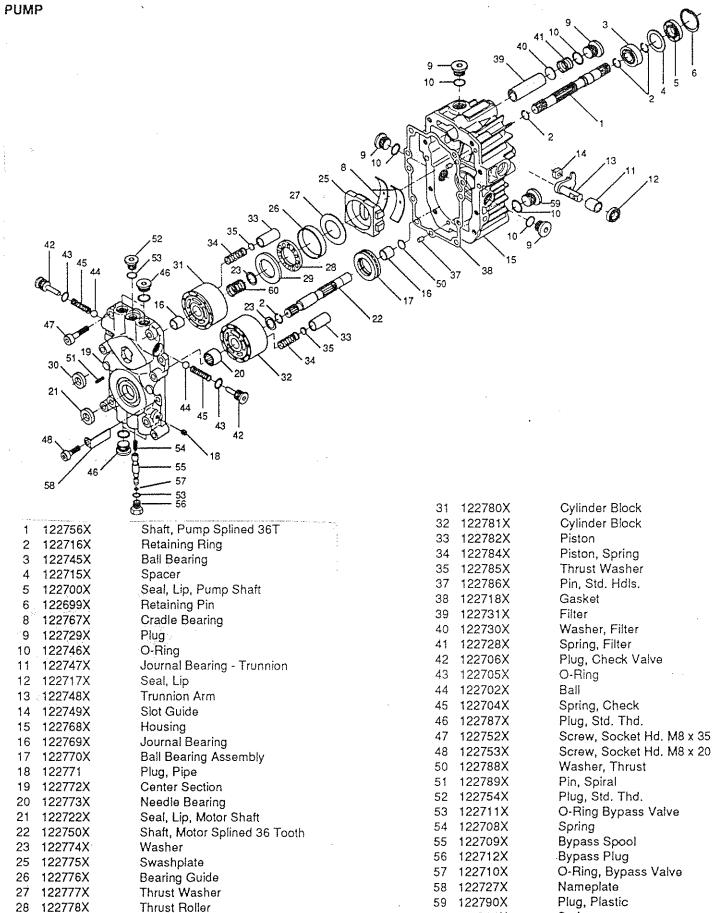
29 122779X

30 122723X

Thrust Plate

Seal, Lip, Thru Pump Shaft

14 H.P. HYDROSTATIC YARD TRACTOR



35

Spring

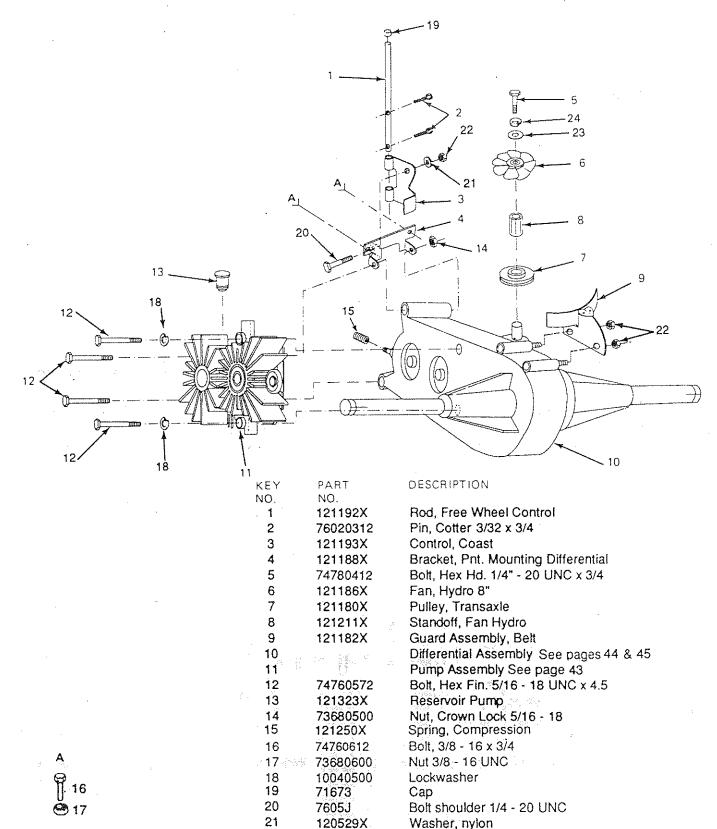
Pump Assy. Complete

60 122791X

121430X

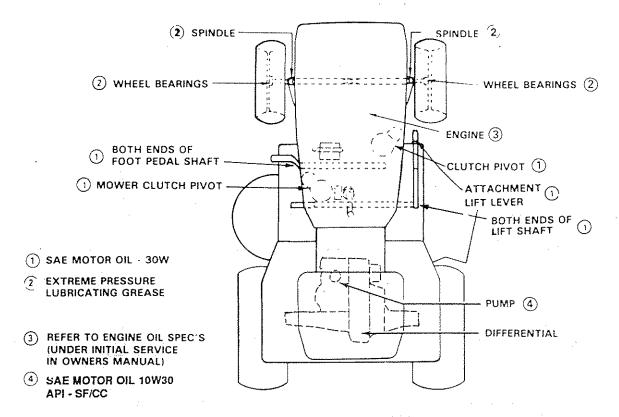
#### 14 H.P. HYDROSTATIC YARD TRACTOR

**DIFFERENTIAL AND PUMP ASSEMBLY** 



| MOWER BLADES WILL NOT ROTATE                            | Install new Mower Drive Belt<br>Reinstall Mower Drive Belt<br>Adjust Mower Drive Belt<br>Replace Frozen Mandrel<br>Replace Frozen Idler Pulley |
|---|--|
| EXCESSIVE MOWER VIBRATION                               | Replace Bent or Unbalanced Blades<br>Replace Mandrel, Straighten Deck or replace   |
| UNEVEN CUT OR SCALPING                                  | Readjust Mower<br>Replace Blades   |
| WIND ROWING STRIPPING OR DROPPING<br>OF GRASS CLIPPINGS | Let grass dry out<br>Clean underside of Mower Deck<br>Readjust Mower<br>Replace Blades   |

#### LUBRICATION CHART



#### STORAGE

#### 1. FUEL SYSTEM

 a. Drain fuel tank and carburetor by allowing the engine to run out of gasoline.

IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS THE CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE. TO

OID ENGINE PROBLEMS, THE FUEL SYSTEM SHOULD BE IPTIED BEFORE STORAGE OF 30 DAYS OR LONGER.

b. Dispose of gasoline if not to be used, NOTE: GASOLINE STORED FOR SEVERAL MONTHS LOSES ITS VOLATILITY (ABILITY TO BURN EFFECTIVELY).

#### 2. ENGINE OIL

Drain (with engine warm) and replace with clean engine oil. (See chart, page 6).

#### 3. CYLINDERS

- a. Remove Spark Plugs.
- b. Pour one ounce of oil through spark plug holes into cylinders.
- c. Turn Ignition Key to "START" position for a few seconds to distribute oil.
- d. Replace with new Spark Plugs, .

#### 4. BATTERY

a. Remove battery if tractor is not used regularly during winter months. Store in cool, dry place (above 50°F.). CAUTION: A DIRTY BATTERY CAN RUIN A FLOOR. CLEAN BATTERY BEFORE STORAGE.

b. Re-charge each month if necessary. NOTE: BATTERIES NOT IN USE FOR SEVERAL MONTHS AND NOT KEPT FULLY CHARGED, PRODUCE SULPHATE DEPOSITS ON PLATES WHICH CANNOT BE REMOVED BY RECHARGING.

#### 5. GENERAL CLEANING

Clean engine, battery, seat, finish, etc. of all foreign matter.

6. STORE IN A CLEAN AND DRY AREA.

73680400

19092016

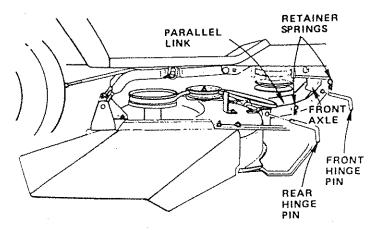
10040400

Nut, Crown lock 1/4 - 20 UNC

Washer 9/32 x 1 - 1/4 x 16 ga.

Washer, Lock 1/4

22



#### FIGURE 30

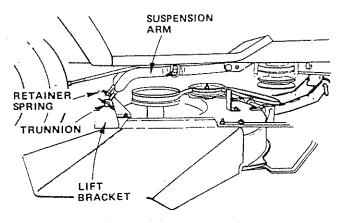
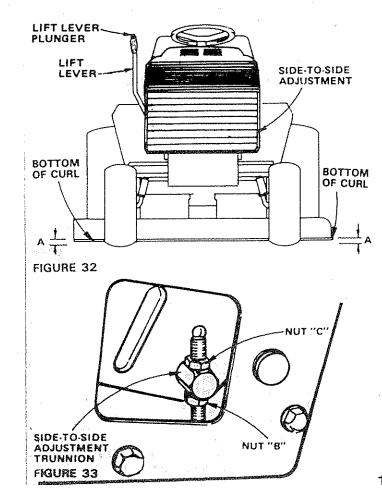


FIGURE 31



#### MOWER INSTALLATION

Your 38" Mower installs without the use of tools. Raise Lift Lever to its highest position. Turn Depth Adjustment Knob to lowest position (Fig. 36).

- 1. Install Front Hinge Pin through Axle and Parallel Link (Fig. 301). Secure with Retainer Spring.
- 2. Install Rear Hinge pin through Mower Lift Brackets and Parallel Link (Fig. 30). Secure with Retainer Spring.
- 3. Move Lift Lever forward to lower Suspension Arms. Slide Trunnions through Lift Bracket holes and secure with Retainer Spring (Fig. 31).
- 4. With belt routed around R.H. Mower Mandrel and Idler Pulley, roll belt over Mower Drive Pulley (Fig. 43) Drive Schematic Decal on Mower Housing.
- 5. Roll Belt over L.H. Mower Mandrel.
- 6. Use Lift Lever to raise mower.

NOTE: SEE MOWER ADJUSTMENT, BELOW

7. Turn Depth Adjustment Knob clockwise ( ) to the middle of it's travel.

#### FOR ANY ADJUSTMENTS, INSPECTION OR **MAINTENANCE:**

- 1. PUSH TRACTOR CLUTCH/BRAKE PEDAL COMPLETELY INTO "BRAKE" POSITION.
- MOVE MOTION CONTROL LEVER TO "N" **NEUTRAL POSITION.**
- 3. PLACE PARKING BRAKE IN "ENGAGED" POSITION. REMOVE FOOT FROM PEDAL.
- PLACE ATTACHMENT CLUTCH SWITCH IN 'DISENGAGED" POSITION.
- TURN IGNITION KEY TO "OFF" POSITION. MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLET-ELY STOPPED.
- REMOVE THE IGNITION KEY.
  DISCONNECT THE SPARK PLUG WIRE FROM THE SPARK PLUG AND KEEP WIREAWAY FROM THE PLUG TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

NOTE: BEFORE CHECKING THE SIDE TO SIDE AND FRONT TO REAR ADJUSTMENTS, PAGE 14 AND 16, BE SURE PRESSURE IN FRONT TIRES IS 14 PSI AND PRESSURE IN REAR TIRES IS 12 PSI. IF TIRES ARE OVER OR UNDER IN-FLATED YOU WILL NOT PROPERLY ADJUST YOUR MOWER.

#### DEPTH ADJUSTMENT (Fig. 36)

Adjustment for mower height is made with the Depth Adjustment Knob. Raise mower cutting height by turning Depth Adjustment Knob clockwise ( ). Lower Mower cutting height by turning Depth Adjustment Knob counterclockwise

#### LEVEL MOWER FROM SIDE TO SIDE (SEE MOWER ADJUSTMENT, ABOVE)

- 1. Park tractor on level surface. Depress Lift Lever Plunger and use Lift Lever to raise mower to maximum cutting height.
- 2. Measure height from bottom of curl to ground level at front of mower. Distance "A" should be the same on both side of mower (Fig. 32).
- 3. If distance "A" needs to be changed, snap out Access hole Cover on L.H. Side above Footrest. Use 9/16" wrench on Nuts "B" and "C" at side-to-side adjustment Trunnion (Fig. 33).

#### REPAIR PARTS

106513X

121676X

100668L

33

35

36

14 H.P. HYDROSTATIC YARD TRACTOR MOWER

Washer, Wear 1/16"

Plate, Support, Mandrel

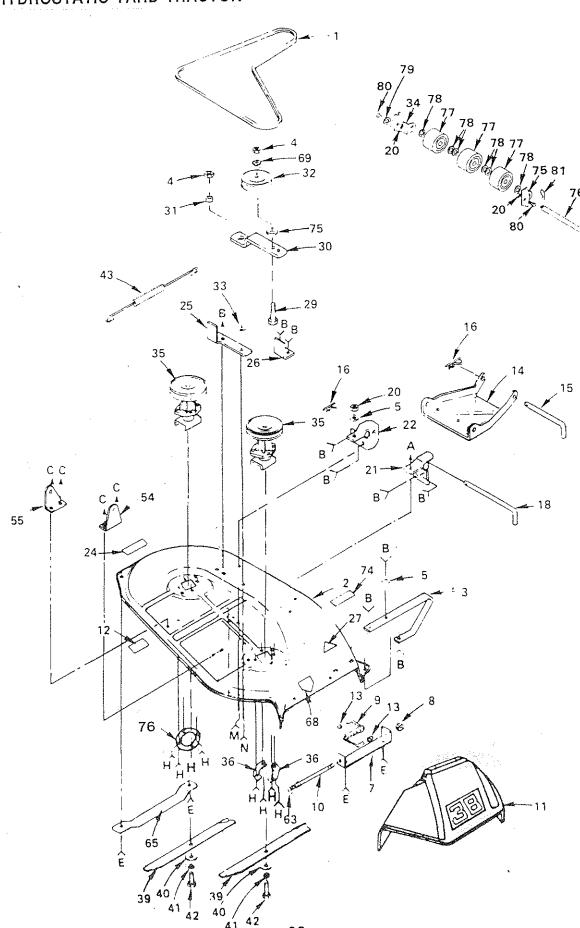
Mandrel Assembly

| KEY<br>NO. | PART<br>NO. | DESCRIPTION                       | KEY<br>NO. | PART<br>NO. | DESCRIPTION                        |
|------------|-------------|-----------------------------------|------------|-------------|------------------------------------|
| 1          | 106085X     | V-Belt                            | 37         | 17490612    | Screw, Hex Washer Hd.              |
| 2          | 108672X     | Housing                           | *          |             | 3/8 - 16 × 3/4                     |
| 3          | 8417J       | Runner, R.H.                      | 39         | 121263X     | Blade, 38"                         |
| 4          | 73680600    | Nut, Lock 3/8 - 16                | 40         | 19132012    | Washer 13/32 x 1-1/4 x 12 Ga.      |
| 5          | 19111216    | Washer 11/32 x 3/4 x 16 Ga.       | 41         | 10030600    | Washer, Lock 3/8                   |
| 6          | 72140505    | Bolt, Carriage 5/16 - 18 x 5/8    | .42        | 74610624    | * Bolt, Hex 3/8 - 24 x 1-1/2 Gr. 5 |
| 7          | 105896X     | Bracket, Deflector                | 43         | 102727X     | Spring, Extension                  |
| 8          | 110452X     | Nut                               | 50         | 72140606    | * Bolt, Carriage 3/8 - 16 x 3/4    |
| 9.         | 106734X     | Spring, Deflector                 | 54         | 105857X     | Bracket, Susp., Rear, R.H.         |
| 10         | 106735X     | Rod, Hinge                        | 55         | 108673X     | Bracket, Susp., Rear, L.H.         |
| 11         | 106736X     | . Deflector, Shield               |            |             |                                    |
| 12         | 108682X     | Decal                             | 63         | 19111016    | Washer 11/32 x 5/8 x 16 Ga.        |
| 13         | 105304X     | Cap                               | 65         | 7631J       | Runner, L.H.                       |
| 14         | 105662X     | Link, Parallel                    | 67         | 72140610    | Bolt, Carriage 3/8 - 16 x 1-1/4    |
| 15         | 105744X     | Pin - Hinge, Front                | 68         | 121349X     | Decal - Warning                    |
| 16         | 4921H       | Spring - Retainer                 | 69         | 19131316    | Washer 13/32 x 13/16 x 16 Ga.      |
| 18         | 109835X     | Pin - Hinge, Rear                 | 75         | 19131210    | Washer 13/32 x 3/4 x 10 Ga.        |
| 20         | 73680500    | Nut, Lock 5/16 - 18               | 7 <i>6</i> | 110445X     | Plate, Support Mandrel             |
| 21         | 109598X     | Bracket, Lift, R.H.               | 77         | 109776X     | Pin, Pivot                         |
| 22         | 109597X     | Bracket, Lift, L.H.               | 78         | 109729X     | Roller, Nose                       |
| 23         | 72140506    | * Bolt - Carriage 5/16 - 18 x 3/4 | 79         | 19151610    | Washer 15/32 x 1 x 10 Ga.          |
| 24         | 109820X     | Instruction - Caution Decal       | 80         | 19161616    | Washer 1/2 x 1 x 16 Ga.            |
| 25         | 109503X     | Support Arm                       | 81         | 74760512    | Bolt, Hex 5/16 - 18 x 3/4          |
| 26         | 109504X     | Stop, Deck, Front                 | 82         | 76020412    | Cotter Pin 1/8 x 3/4               |
| 27         |             | ** Decal - Safety Standard        | 83         | 73680500    | Nut, Lock 5/16 - 18                |
| 29         | 74760637    | * Bolt 3/8 - 16 x 2               | 84         | 109646X     | Bracket, Nose Roller L.H.          |
| 30         | 108674X     | Arm, Idler                        | 85         | 109647X     | Bracket, Nose Roller R.H.          |
| 31         | 106902X     | Spacer                            | : 00       |             |                                    |
| <i>32</i>  | 121316X     | Pulley, Idler                     |            |             |                                    |

\*STANDARD HARDWARE--PURCHASE LOCALLY

\*\*NOT SERVICED

14 H.P. HYDROSTATIC YARD TRACTOR



- To raise left side of mower, loosen Nut "B" and tighten Nut "C".
- 5. To lower left side of mower, loosen Nut "C" and tighten Nut "B".
  NOTE: ONE ROTATION OF ADJUSTMENT NUT IS EQUIVALENT TO APPROXIMATELY 3/16" HEIGHT
- 6. Be sure all Nuts are securely tightened, NOTE: SEE MOWER ADJUSTMENT, FRONT-TO-REAR,

#### ADJUST MOWER FROM FRONT TO REAR

- To obtain the best cutting results, your Mower Housing should be adjusted so the Front and Rear Flange distance "D" (Fig. 34) is 1/2" lower in front when the mower is positioned in the highest cutting position.
   NOTE: MEASURE DISTANCE "D" FROM GROUND LEVEL TO BOTTOM OF CURL ON RIGHT REAR FLANGE AND COMPARE TO DISTANCE "D" ON RIGHT FRONT FLANGE.
- 2. To raise rear of mower, loosen Nut "E" on both Real Suspension Arms. Screw both Nuts "F" up EQUAL NUMBER OF TURNS (Fig. 35).
- When distance "D" is 1/2" lower at front than at rear, tighten Nut "E".
- 4. To lower rear of mower, loosen Nut "F" on both Rear Suspension Arms an EQUAL NUMBER OF TURNS (Fig. 35).
- When distance "D" is 1/2" lower at front than rear, retighten Nuts "E".

NOTE: WHEN ADJUSTING REAR SUSPENSION TRUNNIONS, ALWAYS ADJUST BOTH EQUALLY SO MOWER WILL STAY LEVEL.

#### **OPERATION - MOWER**



READ THE "RULES FOR SAFE OPERATION" CAREFULLY BEFORE OPERATING YOUR MOWER.

THE MOWER MUST BE ADJUSTED PROPERLY FROM FRONT TO REAR AND LEVELED FROM SIDE TO SIDE BEFORE OPERATING. THIS IS NECESSARY FOR LEVEL AND EFFICIENT MOWING. REFER TO PAGES 14 & 15.

- 1. Place Attachment Clutch Switch in "DISENGAGED" position (Fig. 37).
- 2. Push tractor Clutch/Brake Pedal fully into "BRAKE" position.
- 3. Place Motion Control Lever in "N" (neutral) position.

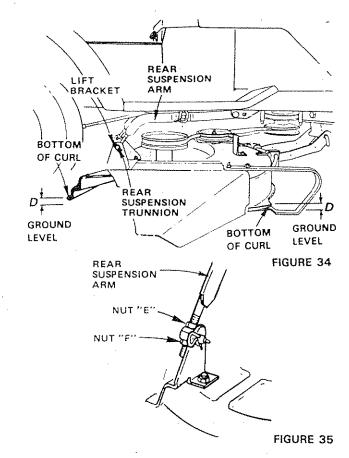
NOTE: CLUTCH/BRAKE PEDAL MUST BE DEPRESSED AND ATTACHMENT CLUTCH SWITCH IN "DISENGAGED" POSITION BEFORE TRACTOR WILL START.

4. Start tractor and set engine speed to about 1/3 to 1/2 throttle before engaging mower. After mower is "ENGAGED" and you have started forward travel, set to FULL THROTTLE.

NEVER "ENGAGE" MOWER EXCEPT WHEN SITTING ON TRACTOR SEAT.



NOTE: THIS TRACTOR IS EQUIPPED WITH AN OPERATOR PRESENCE SENSING SWITCH. ANY ATTEMPT BY THE OPERATOR TO LEAVE THE SEAT WITH THE ENGINE RUNNING AND THE ATTACHMENT CLUTCH ENGAGED WILL SHUT OFF THE ENGINE.



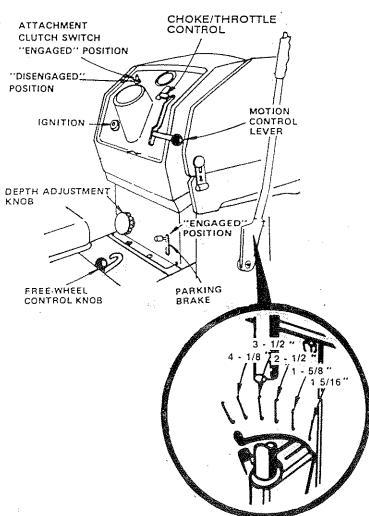
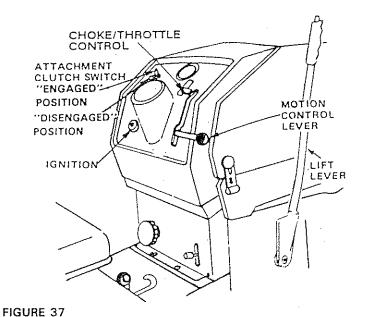


FIGURE 36

. 17



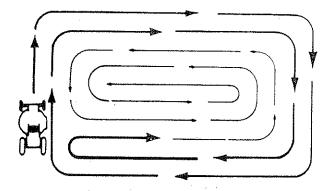
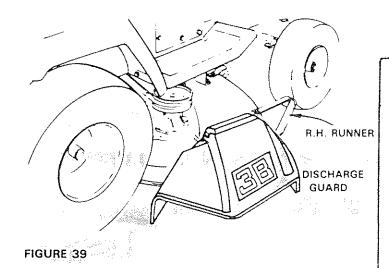


FIGURE 38



NOTE: ALWAYS MOW WITH THROTTLE CONTROL IN "FAST" POSITION. THIS RESULTS IN BETTER GRASS CUT, BETTER ENGINE COOLING, AND BETTER FUEL ECONOMY.

- 5. Use Lift Lever to lower mower into cutting position. Start mowing in the slow speed and increase speed as ground conditions will permit. Average cutting height is approximately 2-1/2 to 2-3/4 inches. Height of cut can be adjusted by means of the Depth Adjustment Knob (Fig. 36). Moving the Knob clockwise ( ) raises the mower (Fig. 36). Moving the knob counterclockwise ( ) lowers the mower.
- 6. Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting. When mowing large areas (Fig. 38) start by turning to the right so that the clippings will be discharged away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished. If grass is extremely tall, it should be mowed twice. The first time cut relatively high. The second time to the desired height. The left hand side of mower should be used for trimming. Use the Runner on the right hand side as guide; the blade cuts approximately an inch outside the runner (Fig. 39).
- 7. Do not mowtall, dry grass over 6 inches tall. It is a fire hazard.

#### FLIP-UP DISCHARGE GUARD

Your mower has a flip-up Discharge Guard (Fig. 39) for door or gate clearance when held in raised position.



MAKE SURE ATTACHMENT CLUTCH SWITCH IS IN "DISENGAGED" POSITION AND BLADES HAVE STOPPED BEFORE RAISING DISCHARGE GUARD (DEFLECTOR). NEVER OPERATE MOWER WITHOUT DISCHARGE GUARD IN OPERATING POSITION.

#### MAINTENANCE - MOWER

BEFORE MAKING ANY INSPECTION, ADJUST-MENT OR REPAIR:

- 1. PUSH TRACTOR CLUTCH/BRAKE PEDAL COMPLETELY INTO BRAKE POSITION.
- 2. MOVE MOTION CONTROL LEVER TO NEUTRAL POSITION.
- PLACE PARKING BRAKE IN "ENGAGED" POSITION. REMOVE FOOT FROM PEDAL.



- 4. PLACE ATTACHMENT CLUTCH SWITCH IN "DISENGAGED" POSITION.
- 5. TURN IGNITION KEY TO "OFF" POSITION.
- MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COM-PLETELY STOPPED.
- 7. REMOVE THE IGNITION KEY.
- 8. DISCONNECT THE SPARK PLUG WIRES FROM THE SPARK PLUGS AND KEEP WIRES AWAY FROM THE SPARK PLUGS TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

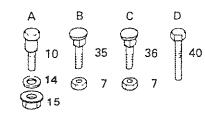
#### REPAIR PARTS

#### 14 H.P. HYDROSTATIC YARD TRACTOR

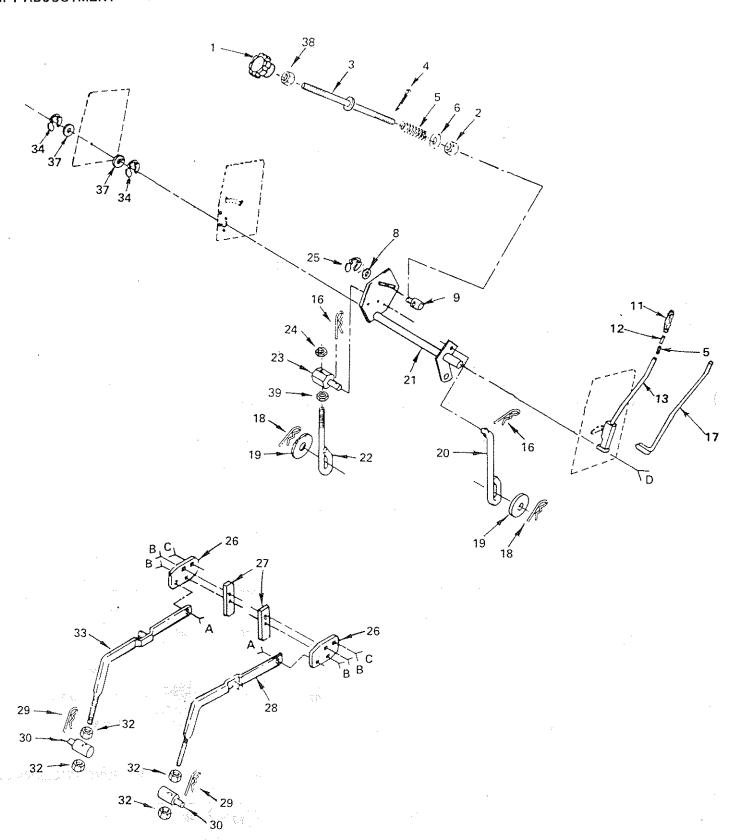
LIFT ADJUSTMENT

| 1       121891X       Knob, Depth Adjustment       20       110029X       Link - Lift         2       110807X       *Nut - Hex Special       21       121001X       Shaft - Lift         3       110729X       Rod - Adjust - Lift       22       110448X       Link - Lift - Adjust         4       76020308       Pin - Cotter 3/32 x 1/2       23       110447X       Trunnion - Lift         5       2876H       Spring       24       73710700       Nut - Lock 7/16 - 20 UN F         6       19131016       Washer 13/32 x 5/8 x 16 Ga.       25       12000037       Klip Ring         7       73680600       Nut - Lock 3/8 - 16       26       105864X       Bracket - Suspension         8       19151216       Washer 15/32 x 3/4 x 16 Ga.       27       121252X       Upstop - Mower         9       110810X       Trunnion       28       121600X       Arm - Suspension - R.H.         10       105848X       Bolt - Shoulder 3/8 - 16       29       9135R       Retainer - Spring         11       109413X       Grip - Handle       30       106308X       Trunion - Lift - Lower         12       105723X       Plunger - Lever       32       73220800       Nut - Hex Fin. 1/2 - 13 | KEY<br>NO.  | PART<br>NO.  | DESCRIPTION   | KEY<br>NO.   | PART<br>NO.   | DESCRIPTION   |
|---|---|--|---|--|---|---|
| 18 4921H Retainer - Spring 38 73350600 Nut - Hex Jam 3/8 - 16<br>19 19171516 Washer 17/32 x 15/16 x 16 Ga. 39 73 36 0700 Nut - Hex Jam 7/16 - 20<br>40 74780624 Bolt - Hex 3/8 - 16 x 1 - 1/2   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | 110807X<br>110729X<br>76020308<br>2876H<br>19131016<br>73680600<br>19151216<br>110810X<br>105848X<br>109413X<br>105723X<br>121004X<br>110739X<br>73980600<br>4939M<br>121006X<br>4921H | *Nut - Hex Special Rod - Adjust - Lift Pin - Cotter 3/32 x 1/2 Spring Washer 13/32 x 5/8 x 16 Ga. Nut - Lock 3/8 - 16 Washer 15/32 x 3/4 x 16 Ga. Trunnion Bolt - Shoulder 3/8 - 16 Grip - Handle Plunger - Lever Lever - Lift (Includes Key No. 17) Spring Washer Center Lock Flangenut 3/8 x 16 Retainer - Spring Rod - Lever Retainer - Spring | 21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>32<br>33<br>34<br>35<br>36<br>37<br>38 | 121001X<br>110448X<br>110447X<br>73710700<br>12000037<br>105864X<br>121252X<br>121600X<br>9135R<br>106308X<br>73220800<br>121601X<br>12000022<br>72140608<br>72140606<br>19292016<br>73350600<br>73 36 0700 | Shaft - Lift Link - Lift - Adjust Trunnion - Lift Nut - Lock 7/16 - 20 UN F Klip Ring Bracket - Suspension Upstop + Mower Arm - Suspension - R.H. Retainer - Spring Trunion - Lift - Lower *Nut - Hex Fin. 1/2 - 13 Arm - Suspension - L.H. E-Ring Bolt - Carriage 3/8 - 16 x 1 * Bolt - Carriage 3/8 - 16 x 3/4 Washer 29/32 x 1 - 1/4 x 16 Ga. Nut - Hex Jam 3/8 - 16 Nut - Hex Jam 7/16 - 20 |

<sup>\*</sup>STANDARD HARDWARE--PURCHASE LOCALLY



## 14 H.P. HYDROSTATIC YARD TRACTOR LIFT ADJUSTMENT



#### BLADE CARE

For best results mower blades must be fept sharp. The blade can be sharpened with a few strokes of a file or on a grind wheel. We suggest they be sharpened after every 25 hours of mowing. Do not attempt to sharpen while on mower. If you mow in sandy soil check the blades after each two mowings. The sand wears the blade away rapidly.

1. When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before reinstallation on mower. Unbalanced or bent blade will cause excessive vibration when running, and eventual damage to mower or engine. Replace bent, damaged or unbalanced blades.

To check Blade balance, drive nail into beam or wall. Leave about one inch of the straight nail exposed. Place Center Hole of clean Blade over the head of the nail (Fig. 40). NOTE: CENTER HOLE OF BLADE ON NAIL. IF BLADE IS PROPERLY BALANCED, BLADE SHOULD REMAIN IN POSITION SHOWN IN FIG. 40. IF EITHER END OF THE BLADE MOVES DOWNWARD, BLADE IS NOT BALANCED. SHARPEN THE HEAVY END UNTIL BLADE IS BALANCED.

2. To ensure satisfactory operation, it is recommended that before the start of each mowing season, the old blades be discarded and replaced with new blades. Mower blades can be purchased from all Roper dealers.

#### DAILY MAINTENANCE

Make sure all nuts on bolts are tight and cotter pins and retainer springs are secure, Keep blades sharp. Observe all safety precautions. Keep mower well lubricated (refer to page 9).

#### **CLEANING MOWER**



DISCONNECT SPARK PLUG WIRE TO PREVENT ACCIDENTAL STARTING BEFORE CLEANING. BE CAREFUL TO AVOID TOUCHING HOT MUFFLER OR ENGINE COMPONENTS.

Water pressure from a garden hose will remove fresh clippings from underside of mower. Clean mower after each mowing.

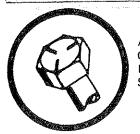
#### BLADE REPLACEMENT

Raise Mower to highest position to permit access to Blades or remove mower from tractor (See page 18).

- 1. Remove Bolt, Lockwasher and Washer (Fig. 41) (turn counterclockwise ( ).
- Place new Blade between Flanges, (the word "TOP" is stamped on all Blades to assure proper installation), and secure with Washer, Lockwasher and Bolt previously removed. TIGHTEN SECURELY.



ALWAYS USE GRADE 5 HEAT TREATED BOLTS TO ATTACH BLADES CHECK BOLTS IN BLADES OCCASIONALLY TO MAKE SURE BOLTS ARE TIGHT. TOR-QUE BOLTS 30 - 35 FT. LBS.



A GRADE 5 HEAT TREATED BOLT CAN BE IDENTIFIED BY THREE LINES ON THE BOLT HEAD AS SHOWN AT LEFT.

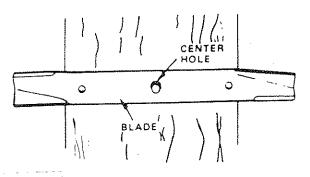


FIGURE 40

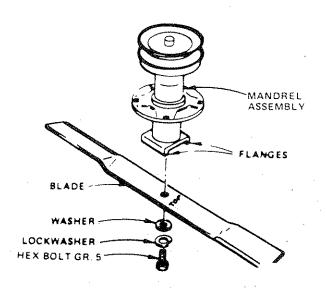
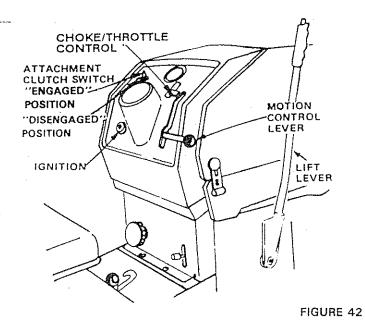
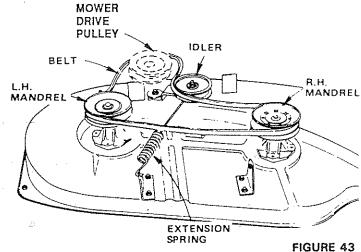
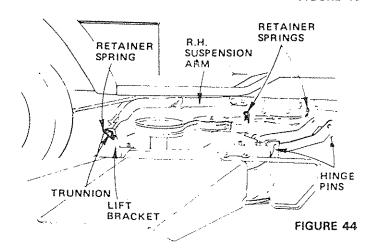


FIGURE 41







#### TO REMOVE OR REPLACE MOWER DRIVE BELT

REPLACE ONLY WITH THE BELTS SPECIFIED IN THE MANUAL.

- 1. Place Attachment Clutch Switch in "DISENGAGED" position (Fig. 42)
- 2. Turn Depth Adjustment Knob to lowest position. Move Attachment Lift Lever (Fig. 42) forward to

- lower Mower to its lowest position.

  3. Roll Belt off L.H. Mandrel Pulley (fig. 43).

  4. Pull Belt off R.H. Mandrel, Idler and Mower Drive Pulley.

  5. To replace Mower Drive Belt, reverse above procedure. Make sure Drive Belt is engaged in all Pulleys.

  NOTE: REPLACE ONLY WITH BELTS SPECIFIED IN THIS MANUAL.

NOTE: MOWER BELT INSTALLATION DECAL LOCATED ON MOWER HOUSING.

#### TO REMOVE MOWER

- 1. Remove mower belt per instructions under "To Remove Mower Belt", through step 3.
- 2. Pull belt off the Engine Pulley.
- 3. Pull Retainer Springs out of Rear Suspension Trunnions. Remove Rear Suspension Trunnions from Lift Brackets
- 4. Pull Retainer Spring out of Rear Hinge Pin. Remove Rear
- 5. Pull Retainer Spring out of Front Hinge Pin. Remove Front Hinge Pin (Fig. 44).
- 6. Use Lift Lever to raise Suspension Arms. Slide mower out from under tractor.

NOTE: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, THE L.H. AND R.H. SUSPENSION ARMS (FIG. 44), SHOULD BE REMOVED FROM TRACTOR.

#### STORAGE

When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Give blades and underside of housing a good coat of grease or rust preventative. Store in a clean dry area.

#### CLEANING MOWER



DISCONNECT SPARK PLUG WIRE(S) TO PRE-VENT ACCIDENTAL STARTING BEFORE CLEANING. BE CAREFUL TO AVOID TOUCHING HOT MUFFLER OR ENGINE COMPONENTS.

Water pressure from a garden hose will remove fresh clippings from underside of mower. Clean mower after each mowin

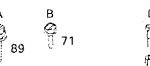
#### REPAIR PARTS

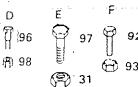
#### 14 H.P. HYDROSTATIC YARD TRACTOR

STEERING ASSEMBLY

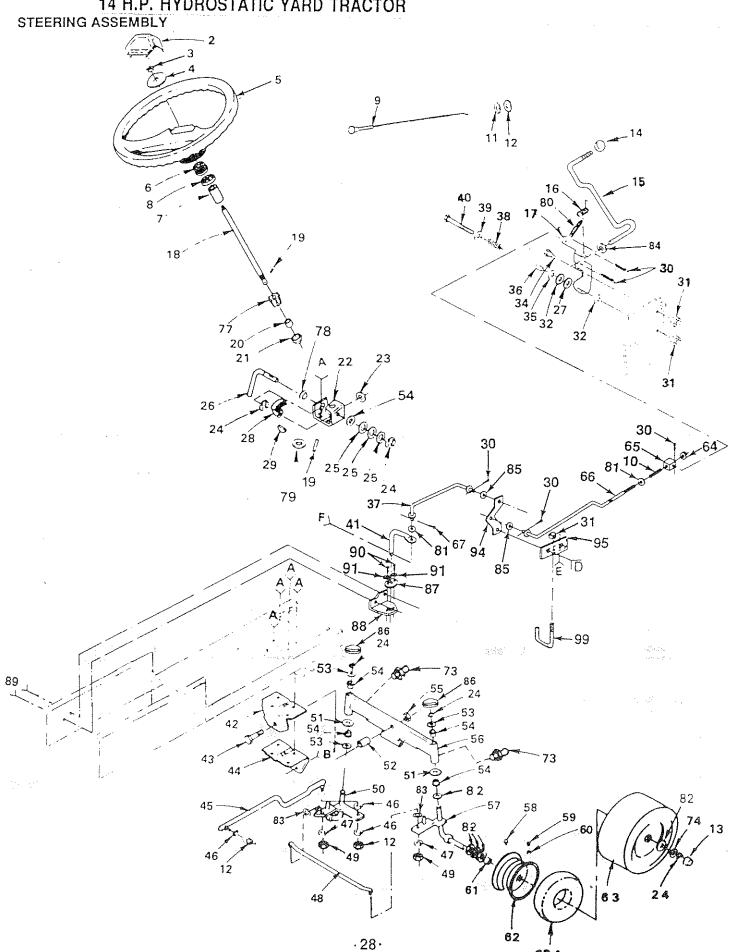
| ŘEY<br>NO.   | PART<br>NO.   | DESCRIPTION  | KEY<br>NO. | PART<br>NO.  | DESCRIPTION  |
|--|---|--|------------|--|--|
| NO 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 34 35 36 37 38 39 40 41 42 43 44 | NO<br>121584X<br>73940800 ;<br>100712K<br>121472X<br>100711L<br>106945X<br>106943X<br>122232X<br>102670X<br>11050600<br>73610600<br>104757X<br>121274X<br>121201X<br>121631X<br>108196X<br>109557X<br>2882J<br>74580<br>71208<br>109432X<br>19212016<br>12000029<br>6266H<br>108683X<br>108972X<br>108684X<br>106126X<br>76020412<br>73680600<br>108200X<br>108518X<br>19212016<br>108201X<br>121202X<br>108844X<br>19132012<br>74760648<br>121209X<br>105663X<br>74761060<br>105664X | Insert - Steering Wheel *Nut · Hex 1/2 · 20 Washer Wheel · Steering Adapter · Steering Wheel Tube · Steering Shaft Spacer · Shaft, Steering Control · Choke Spring · Compression Washer · Lock, Ext. Tooth 3/8 *Nut · Hex 3/8 · 24 Cap · Hub · Front Knob · Control Rod · Control Spring · Torsion Bracket · Control Rod Shaft · Steering Pin · Drive 3/16 x 1 Spacer Bushing Bracket · Steering Washer 21/32 x 1 · 1/4 x 16 Ga. Klip Ring Bearing · Thrust Rod · Steering Washer · Phenolic Gear · Sector Key · Woodruff Pin · Cotter 1/8 x 3/4 Nut · Lock 3/8 · 16 Washer · Friction Bolt · Hex Shoulder 3/8 · 16 x 1 · 3/8 Washer 21/32 x 1 · 1/4 x 16 Ga. Spacer Link · Control Spring · Compression Washer 13/32 x 1 · 1/4 x 12 Ga. *Bolt · Hex 3/8 · 16 x 3 Arm Assembly · Pump Control Support · Saddle · Rear Bolt · Hex 5/8 · 11 x 3 · 3/4 Support · Saddle · Front |            |  | Rod - Tie  *Nut - Hex 5/16 - 24 Spindle - L.H. Washer 27/32 x 1 - 1/4 x 16 Ga. Spacer Hardened Washer Bearing Nut - Lock - Flange 5/8 * 11 Axle - Front Spindle - R.H. Fitting - Grease Stem - Valve Cap * Valve Bearing Rim - 6" Front Tire - Front Tube * Tire - Front (not furnished with tractor)  *Nut - Toplock Trunnion Rod - Adjustable Control Clip, Hairpin Screw - Hex Washer Thread Rolling 5/16 - 18 x 1/2 Fitting - Grease Washer 25/32 x 1 - 5/8 x 16 Ga. Gear - Pinion Nyliner, Snap - In Washer - Hardened Retainer Spring Washer, 13/32 x 3/4 x 12 Ga. Washer, 13/32 x 3/4 x 16 Ga. Washer 11/32 x 3/4 x 16 Ga. Washer 15/32 x 15/16 x 16 Ga. Washer 15/32 x 15/16 x 16 Ga. Washer Spring Cap Spindle Guide Control Bracket Control Guide Scr. Hex Wsh. Thdrol 5/16 - 18 x 3/4 TYTT Scr. Tap Hex Hd. #10-24 inc. x 1/2 TYTT. Washer 7/32 x 1/2 x 16 Ga. Bolt 10 - 24 3/4 Nut 10 - 24 |
| 45<br>46<br>47   | 105727X<br>10040600<br>10040500   | Link Drag *Lockwasher 3/8 *Washer - Lock 5/16  |            | 121204X<br>121206X<br>100536K<br>74760612<br>73680500<br>121190X | Bellcrank Bracket Bellcrank Pivot Bolt Shoulder Bolt Fin Hex 3/8 Inc. 16 x 3/4 Nut Crownlock 5/16 - 18 Keeper, Centerspan  |

STANDARD HARDWARE-PURCHASE LOCALLY





14 H.P. HYDROSTATIC YARD TRACTOR



| SERVICE RECORD  FILL IN DATES AS YOU COMPLETÉ REGULAR SERVICE | 15 | L'ALET O | ARA A | HOJES<br>HOJES | AFER A      | o HOLD                                | 3 HOUR | SERVI  | CE DA | TEST |
|---|----|----------|-------|----------------|-------------|---------------------------------------|--------|--|-------|------|
| Check Engine Oil Level  |    |          |       |                |             |                                       |        |  |       |      |
| Change Engine Oil (see chart, page 6)                         |    |          | 1     |                |             |                                       |        |  |       |      |
| Lubricate Pivot Points  |    |          | 400   |                |             |                                       |        | and the same of th |       | ·    |
| Check Brake Operation   |    | 8        |       |                |             |                                       |        | No.  |       |      |
| Clean Air Screen  |    | 1        |       |                | - Parameter |                                       |        |  |       |      |
| Clean Air Cleaner   |    |          | 1     |                |             |                                       |        |  |       |      |
| Replace Air Cleaner Paper Cartridge                           |    |          |       | 1              | -           |                                       |        |  |       |      |
| Clean Engine Cooling System                                   |    |          |       |                |             |                                       |        |  |       |      |
| Replace Spark Plug  |    |          |       | 1              |             |                                       |        |  |       |      |
| Check Battery Level   |    |          |       |                |             |                                       |        |  |       |      |
| Check Tire Pressure   |    |          |       |                |             | · · · · · · · · · · · · · · · · · · · |        |  |       |      |
| Replace In-Line Fuel Filter                                   |    |          |       |                | 4           |                                       |        |  |       |      |
| Clean Grill and Battery Terminals                             |    |          |       | 1              |             |                                       |        |  |       |      |
| Check Muffler   |    |          |       |                |             |                                       |        |  |       |      |
| Carburetor Adjustment   |    |          |       |                |             |                                       |        |  |       |      |
| Check Reservoir & Pump Fluid Levels                           |    |          |       |                |             |                                       |        | 1  | 1     |      |
| Check Hydrostatic Transmission Cooling                        |    | Q.       |       | -              | -           |                                       |        |  |       |      |

#### HOOD REMOVAL

- a. Lift Hood, Disconnect headlight wiring connection (Fig. 47)
  b. Unscrew one wingnut at rear of each side panel (Fig. 48).
  c. Pivot hood and Side Panel Forward and lift off tractor (Fig. 47)
  d. To replace, reverse the above procedure.

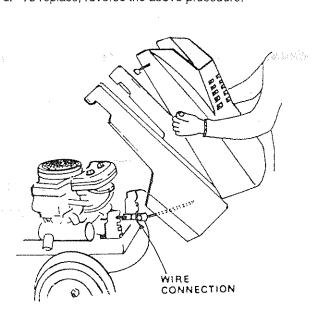


FIGURE 47

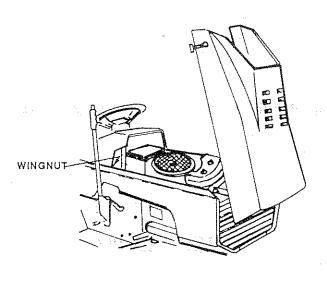
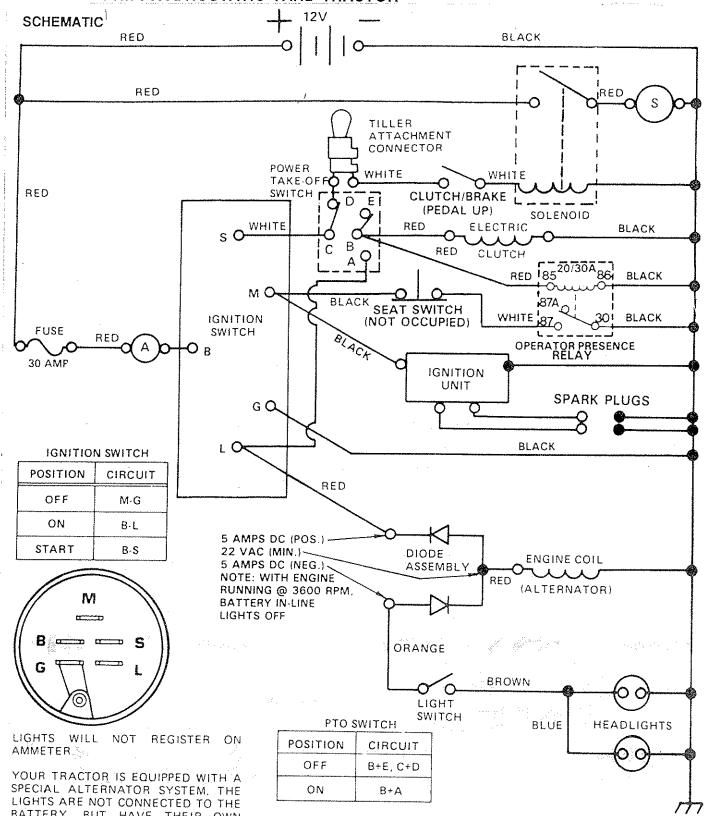


FIGURE 48

Roper Corporation reserves the right to make any changes in design or improvements without imposing any obligation to install the same upon its items heretofore manufactured.

#### 14 H.P. HYDROSTATIC YARD TRACTOR



SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY. BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THE SHIGHTS WILL CHANGE WITH THE ENGINE SPEED. AT IDLE SPEED THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

Removable Connectors

Non-removable connections

CHASSIS

GROUND

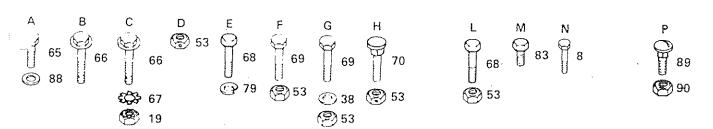
#### **REPAIR PARTS**

#### 14 H.P. HYDROSTATIC YARD TRACTOR

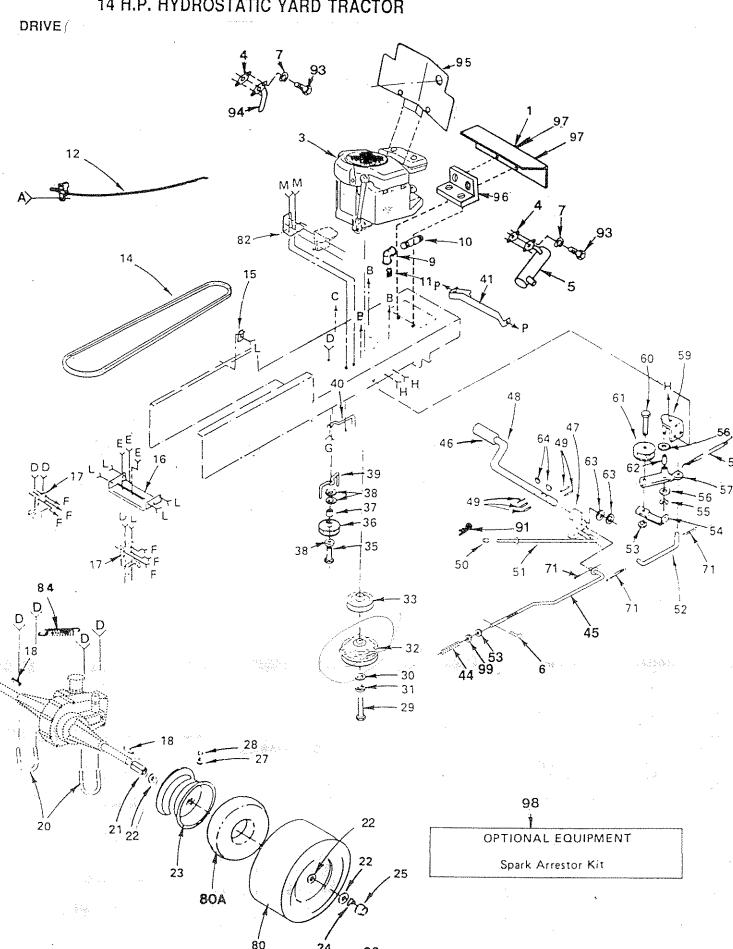
#### DRIVE

| KEY<br>NO.            | PART<br>NO.         | DESCRIPTION  | KEY            | PART                        | DESCRIPTION   |
|-----------------------|---------------------|--|----------------|-----------------------------|---|
|                       |                     |  | NO.            | NO.                         |   |
| 1<br>2<br>3           | 110012X<br>9151R    | Baffle - Vertical<br>Grommet<br>Engine 14 H.P. Model Number 400707 | 50<br>51<br>52 | 71673<br>105844X<br>105710X | Cap<br>Rod, Brake, Park<br>Link, Clutch             |
| 4                     |                     | Type Number 1211 - 01  | 53             | 73680600                    | Nut, Lock, 3/8 - 16                                 |
| 4<br>5 ·              | 8545J<br>108373X    | Gasket<br>Muffler  | 54<br>55       | 106499X                     | Retainer, Belt                                      |
| 6                     | 4497H               | Clip, Hairpin  | 56             | 12000039<br>110812X         | Klip Ring<br>Washer, Hardened                       |
| 7                     | 10040400            | *Washer, Lock 1/4  | 57             | 105707X                     | Bellcrank Assembly (Incl. Key No. 62)               |
| 8                     | 17210806            | Screw - Hex Hd, No. 8 - 32 x 3/8                                   | 58             | 105709X                     | Spring, Return, Clutch                              |
| 9                     | 13200300            | Coupling, Pipe, Std. 3/8 - 18 NPT                                  | 59             | 105724X                     | Bracket, Clutch                                     |
| 10                    | 13280336            | Elbow - 90°, 3/8 - 18 NPT<br>Nipple, Pipe                          | 60<br>61       | 74760624<br>106298X         | *Bolt, Hex, 3/8 - 16 x 1-1/2<br>Pulley, Idler       |
| 11                    | 91084               | Plug - 1/4   | 62             | 105706X                     | Bearing   |
| 12                    | 121524X             | Control, Throttle  | 63             | 121749X                     | Washer, 25/32 x 1-1/4 x 16 Ga.                      |
|                       | 108103X             | V-Belt, Drive  | 64             | 2228M                       | *Key, Woodruff No. 9                                |
| 15<br>16              | 2751R               | Clip   | 65<br>66       | 17080408                    | Screw, Hex Thread Cut. 1/4 - 20 x 1/2               |
| 17                    | 121187X<br>121191X  | Plate, Transaxle Support<br>Bracket, Transaxle                     | 66             | 17490624                    | Bolt, Hex Washer Thd. Rolling<br>3/8 - 16 x 1 - 1/2 |
| 18                    | 2703J               | Key - Square 1/4 x 2   | 67             | 11050600                    | Washer - Lock Ext. Tooth 3/8                        |
| 19                    | 73510600            | Nut - Keps 3/8 - 16  | 68             | 74760612                    | *Bolt, Hex 3/8 - 16 x 3/4                           |
| 20                    | 121189X             | U-Bolt, 3/8 - 16 x 2-3/4   | 69             | 74760616                    | *Bolt, Hex 3/8 - 16 x 1                             |
| 21<br>22              | 121199X<br>121748X  | Spacer, Split  | 70             | 72140606                    | *Bolt, Carr., 3/8 - 16 x 3/4                        |
| 23                    | 106108X             | Washer, 1-1/32 x 1-5/8 x 16 Ga,<br>Rim - Rear - 8"                 | 71<br>79       | 76020412                    | Pin, Cotter, 1/8 x 3/4                              |
| 24                    | 12000001            | E-Ring   | 79<br>80       | 10040600<br>122082X         | *Washer - Lock 3/8<br>Tire - 20 - 10.00 x 10 Rear   |
| 25                    | 104757X             | Cap, Hub, Rear   | 80 A           | 7152J                       | Tube (not furnished with tractor)                   |
| 27<br>28              | 00100               | Stem, Valve  | 82             | 108236X                     | Bracket - Switch                                    |
| 28<br>29              | 59192<br>74610764   | Cap, Valve   | 83             | 17021008                    | Screw - Tap. Hex Hd, No. 10 - 24                    |
| 30                    | 19152405            | Bolt, Hex 7/16 - 20 x 4<br>Washer, 15/32 x1 - 1/2 x 5 Ga.          | 84             | 110442X                     | x 1/2 Type T<br>Brake Return Spring                 |
| 31                    | 10040700            | *Washer, Lock 7/16   | 88             | 19091016                    | *Washer 9/32 x 5/8 x 16 Ga.                         |
| 32 🤝                  | 108218X             | Clutch - Electric  | 89             | 72140506                    | Bolt - Rd. Hd. Sq. Nk. 5/16 - 18 x 3/4              |
| 33 <sup>1</sup><br>35 | 109841X<br>74760644 | Pulley - Engine  | 90<br>91       | 73680500<br>4921H           | Nut - Lock 5/16 - 18                                |
| 36                    | 4859J               | *Bolt, Hex 3/8 - 16 x 2-3/4<br>Idler, Flat                         | 91             | 4921M                       | Spring - Retainer                                   |
| 37                    | 4470J               | Spacer   |                |                             | 5/16 -18 x 1/2 Ty TT                                |
| 38                    | 19131312            | Washer, 13/32 x 13/16 x 12 Ga.                                     | 93             | 74780412                    | Bolt - Hex 1/4 - 20 x 3/4                           |
| 39                    | 105730X             | Keeper, Belt   | 94             | 100229L                     | Tube Assembly - Exhaust                             |
| 40<br>41              | 121218X<br>109169X  | Keeper, Belt, Engine, L.H.   | 95             | 1040177                     | Deffin Vancous                                      |
| 44                    | 106888X             | Clutch Retainer Assembly<br>Spring Rod, Brake                      | ુ 96           | 104917X<br>110013X          | Baffle · Vertical<br>Bracket Heat Shield            |
| 45                    | 121200X             | Rod, Brake   | 97             | 17490508                    | Bolt - Hex Thd. Cutting                             |
| 46                    | 8883R               | Cover, Pedal   |                |                             | 15/16 -18 x 1/2                                     |
| 47                    | 106918X             | Arm, Brake   | 98<br>99       | 100091M<br>73350600         | Spark Arrester Screen                               |
| 48<br>49              | 109037X<br>1572H    | Shaft, Foot Pedal  | 00             | , 0000000                   | Nut Hex, Jam 3/8 x 16 UNC                           |
| <i>ਜਹ</i>             | 10/20               | *Pin, Roll, 3/16 x 1   |                |                             | ·   |

<sup>\*</sup>STANDARD HARDWARE--PURCHASE LOCALLY



14 H.P. HYDROSTATIC YARD TRACTOR



#### REPAIR PARTS

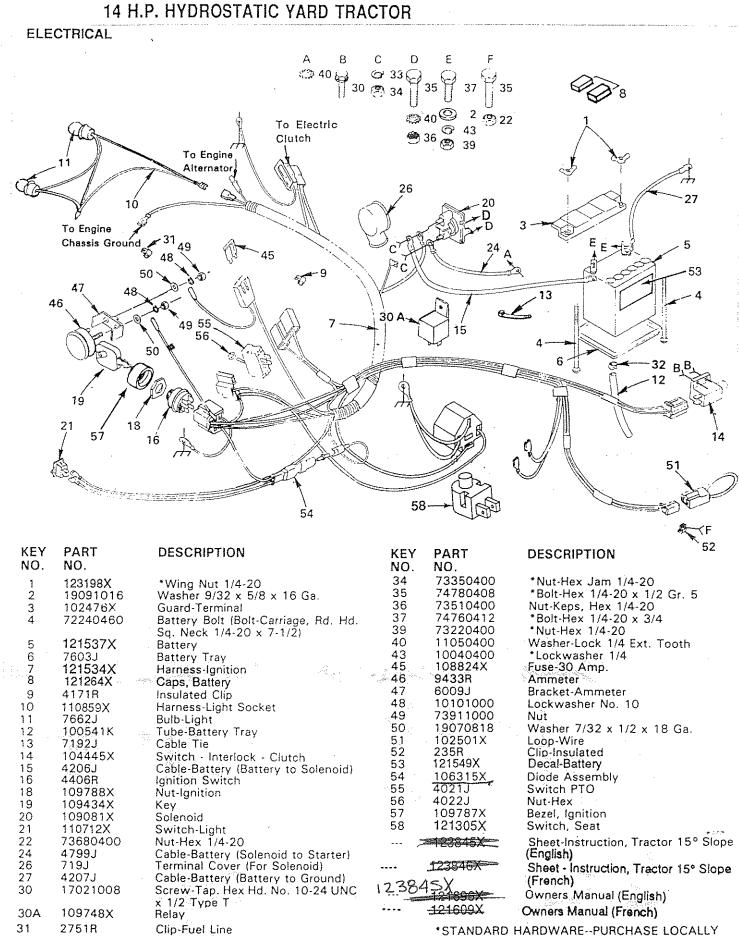
32

109596X

10090400

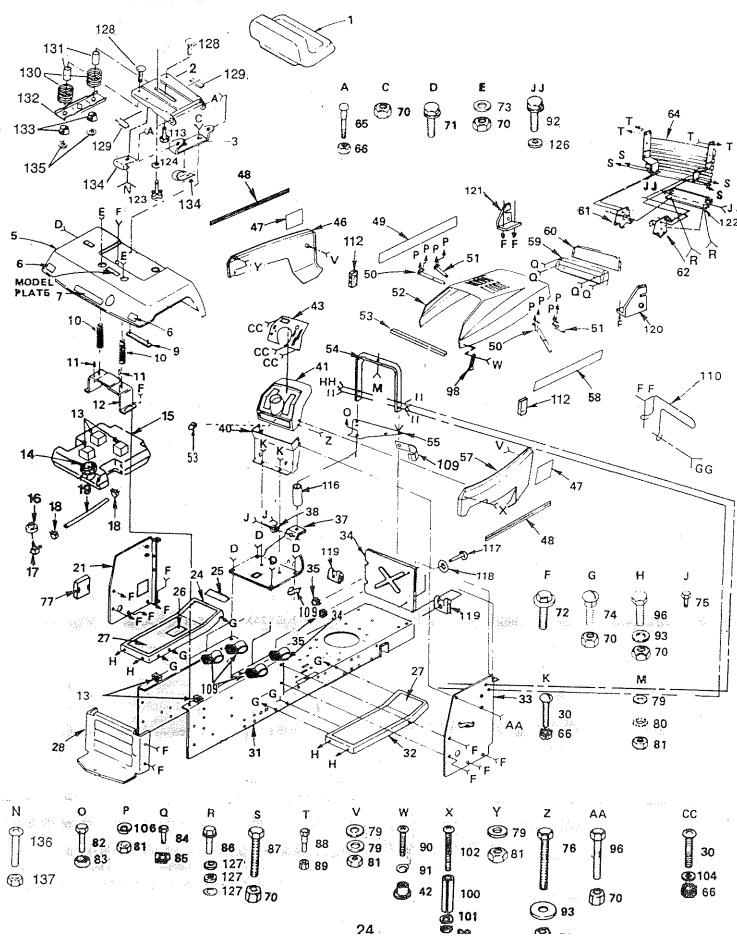
Clamp-Hose

Lockwasher 1/4



#### 14 H.P. HYDROSTATIC YARD TRACTOR

#### CHASSIS AND ENCLOSURES



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### REPAIR PARTS

|   |            | 14 I                  | H.P. HYDROSTATIC YARD T                         | RACTOR     |                      |   |
|---|------------|-----------------------|---|------------|----------------------|---|
|   | KEY<br>NO. | PART<br>NO.           | DESCRIPTION                                     | KEY<br>NO. | PART<br>NO.          | DESCRIPTION   |
|   | . 1        | 110840X .             | Seat  |            |                      | - (   |
|   | 2<br>3     | 121247X<br>105513X    | Pan - Seat<br>Bracket - Pivot, Seat             | 70<br>71   | 73680600<br>17490608 | Nut - Crownlock 3/8 - 16<br>Screw - Hex Washer Thread       |
|   | 5<br>6     | 121642X388<br>106202X | Reflector - Rear                                | 72         | 17490612             | Rolling 3/8 - 16 x 1/2<br>Screw - Hex Washer Thread         |
|   | 7<br>8     | 121586X               | Decal - Fender                                  | 73         | 10101014             | Rolling 3/8 - 16 x 3/4                                      |
| 1 | 9          | 121068X<br>105511X    | Spring - Compression L.H.<br>Strap - Fender     | 73<br>74   | 19131614<br>72140606 | Washer 13/32 x 1 x 14 Ga.<br>Bolt - Carriage 3/8 - 16 x 3/4 |
|   | 10         | 121067X               | Spring - Compression R.H.                       | 75         | 17431008             | Screw - Hex Self Tapping No. 10 - 16                        |
|   | 11 ∘<br>12 | 105531X<br>105509X    | Nut - Push<br>Bracket - Fender                  |            |                      | x 1/2   |
| - | 13         | 6431J                 | Pad - Spacer                                    | 77         | 121794X              | Cover - Access  |
|   | 14         | 121221X               | Cap · Fuel                                      | 79         | 19091216             | Washer 9/32 x 3/4 x 16 Ga.                                  |
|   | 15<br>16   | 106020X<br>3645J      | Tank - Fuel<br>Bushing                          | 80<br>81   | 11050400<br>73220400 | *Washer - Lock 1/4  |
| : | 17         | 8710J                 | Stem - Tank, Fuel                               | 82         | 74780512             | *Nut - Hex 1/4 - 20<br>*Bolt - Hex 5/16 - 18 x 3/4 Gr. 5    |
|   | 18         | 6999R                 | Clamp - Hose                                    | 83         | 73510500             | Nut - Keps 5/16 - 18  |
|   | 19         | 5277J                 | Line - Fuel                                     | 84         | 17211010             | Screw - Hex Head Washer Hd. Tag.                            |
|   | 20<br>21   | 19143210<br>105523X   | Spacer - Washer<br>Panel - Dash, L.H.           | ٥٣         | 4047557              | No 10 - 16 v 5/8  |
|   | 24         | 105465X               | Footrest - L.H.                                 | 85<br>86   | 104755X<br>17490512  | "J" Fastener  |
|   | 25         | 101892X               | Decal - Clutch/Brake (YTH 160CT                 | 50         | ., 400012            | Screw - Hex Washer Thread Rolling 5/16 - 18 x 3/4           |
|   |            |                       | only)   | 87         | 74760616             | Bolt - Hex 3/8 - 16 x 1                                     |
|   | 26         | 121215X               | Decal - Drive Belt                              | 88         | 7605J                | Bolt - Shoulder 1/4 - 20                                    |
|   | 27<br>28   | 109864X<br>121306X    | Pad - Footrest                                  | 89<br>90   | 73680400<br>74191008 | Nut - Lock 1/4 - 20   |
|   | 29         | 109219X               | Drawbar<br>Deflector - Debris                   | 50         | 74151006             | Screw - Pan Hd. Machine<br>No. 10-24 x 1/2                  |
|   | 30         | 74180512              | Screw - Mach. Cr. Thd. 5/16 - 18 x 3/4          | 91         | 10071000             | Washer - Lock No. 10  |
|   | 31         | 121278X               | Chassis   | 92         | 17190412             | Scr. Thrd. Roll 1/4 - 20 x 3/4                              |
|   | 32         | 105464X               | Footrest - R.H.                                 | 93         | 19131312             | Washer $13/32 \times 13/16 \times 12  \text{Ga}$ .          |
|   | 33<br>34   | 110828X<br>108105X    | Panel - Dash, R.H.<br>Baffle - Rear Lower       | 96         | 74760612             | Bolt - Hex 3/8 - 16 x 3/4                                   |
|   | 35         | 110436X               | Grommet, Split                                  | 98<br>99   | 109808X<br>73731000  | Latch - Hood<br>Nut - Keps 10-24                            |
|   | 0.7        |                       | ·   | 100        | 7206J                | Spacer - Split 10 x 3/4                                     |
| : | 37<br>38   | 121195X<br>1554J      | Saddle Standard                                 | 101        | 19070818             | Washer 7/32 x 1/2 x 18 Ga.                                  |
|   | 40         | 104805X               | Bushing - Steering Dash Assembly - Lower        | 102        | 74981020             | Screw - Mach. Cr. Pan 10-24                                 |
|   | 41         | 121312X               | Dash Assembly - Lower                           | 104        | 19111116             | × 1 - 1/4   |
|   | 42         | 2029J                 | Nut - Weld                                      | 106        | 10090400             | Washer 11/32 x 11/16 x 16 Ga.<br>Washer - Lock 1/4          |
|   | 43         | 121723X011            | Plate - Dash                                    |            | 10000 100            | 77 daner - Lock 174   |
|   | 40         | 4000701/000           | 5 1 5 1 1 1                                     | 109        | 2751R                | Clip  |
|   | 46<br>47   | 108372X388            | Panel - Side, L.H.<br>Decal - Side Panel, 14 HP | 110<br>111 | 108885X              | Guard - Muffler   |
|   | 48         | 121589X               | Decal - Strip, Hood                             | 112        | 19131616<br>109459X  | Washer 13/32 x 1 x 16 Ga.<br>Strip - Foam                   |
|   | 49         | 121587X               | Decal - Hood, L.H.                              | 113        | 121144X              | Bolt - Hex Finish 5/16 x 16 x 1                             |
|   | 50         | 106784X               | Strap Assembly - Hinge, Rear                    | 110        | 121236X              |   |
|   | 51<br>52   | 104618X<br>108370X388 | Strap Assembly - Hinge, Front                   | 116<br>117 | 105751X              | Spacer<br>Stud 1/4 Turn                                     |
|   | 53         | 109458X               | Strip - Foam, 18"                               | 118        | 105838X              | Retainer 1/4 Turn   |
|   | 54         | 110829X               | Support Assembly - Dash                         | 119<br>120 | 105839X<br>110853X   | Receptacle 1/4 Turn   |
|   | 55         | 106965X -             | Plate - Support, Battery                        | 121        | 110852X              | Bracket Assembly R.H. Bracket Assembly L.H.                 |
|   | 57<br>50   | 108371X388            | Panel - Side, R.H.                              | 122        | 105419X              | Strap - Grill   |
|   | 58<br>59   | 121588X<br>104613X    | Decal - Hood, R.H.<br>Bezel Assembly            | 123<br>124 | 120068X<br>19171912  | Adjustment Knob<br>Washer 17/32 x 1 - 1/16 x 20 Ga.         |
|   | 60         | 106395X               | Lens  | 125        | 11050600             | Lockwasher 3/8 Ext. Tooth                                   |
| : | 61         | 110855X               | Support - Grill, L.H.                           | 126        | 11030400             | Lockwasher 1/4  |
|   | 62         | 110854X               | Support - Grill, R.H.                           | 127<br>128 | 19111216             | Washer, 11/32 x 3/4 x 12                                    |
|   | 53<br>54   | 104634X<br>122100X    | Strap - Grill Grill Assembly                    | 129        | 72170410<br>121251X  | Bolt, Carr. 1/4-20 x 1-1/4                                  |
|   | 55<br>55   |                       | Bolt - Shoulder 5/16 - 18                       | 130        | 121250X              | Foam, Strip<br>Spring, Compression                          |
|   | 56         |                       | Nut - Lock 5/16 - 18                            | 131        | 121249X              | Spacer, Split   |
|   |            |                       |   | .132       | 121246X              | Bracket, Switch   |
|   |            |                       | нн п  | 133        | 121248X              | Bushing, Snap   |
|   |            | ~ ~                   |   | 134<br>135 | 4171R                | Clip, Insulated   |
|   |            | G G                   | 1 A   | 135        | 73900400             | Nut, Lock 1/4 - 20  |
|   |            | 87                    | 87 96   | 137        | 71031012<br>73951000 | Scr. HS. Wash 10 - 32 x 3/4<br>Nut, Keps #10 - 32           |
|   |            | 87                    | U U   |            |                      | 1104 110ps # 10 - 0E  |
|   |            | <u>U</u>              | <b>₽</b> 125 <b>₽</b> 70                        |            |                      |   |
|   |            | (e) 111               |   |            |                      |   |
|   |            | <b>(</b> 70           | <del>[]</del> 70                                | =          |                      |   |
|   |            |                       |   | •          | STANDARD H           | ARDWARE-PURCHASE LOCALLY                                    |