

**Sears**

**OWNERS  
MANUAL**

**MODEL NO.  
917.253721**

**Caution:  
Read Rules for  
Safe Operation  
and Instructions  
Carefully**



# **GTV 16 TWIN VARIDRIVE GARDEN TRACTOR**

**Assembly  
Installation  
Operation  
Repair Parts**

**CONGRATULATIONS** on your purchase of a Sears Varidrive GTV 16 H.P. Garden 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 Sears, Roebuck and Co. store. They have competent, well-trained technicians and the proper tools and parts to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble, operate and maintain your Tractor properly. Always observe the "RULES FOR SAFE OPERATION".

## **YOUR NEW GTV 16 GARDEN TRACTOR FEATURES . . .**

**CRAFTSMAN 16 H.P. ENGINE**--cool-running performance and long life with plenty of power to take on a variety of yard, gardening or snow removal tasks.

**INTERLOCK SWITCH SYSTEM**--allows engine to start only when tractor Clutch-Brake Pedal is depressed and Attachment Clutch Lever is in "OFF" position.

**ALL GEAR TRANSMISSION**--three speeds forward, plus reverse to let you select the proper match for the terrain and the job. Automotive-type differential helps guard against turf scuffing.

**VARIDRIVE SPEED CONTROL**--is especially valuable when load is not uniform. When engine-driven attachments are overloaded, such as with heavy lawn mowing or deep snow throwing, the ground speed may be reduced with the Control Lever to relieve the load while the attachment continues to operate at full speed.

**MODEL** \_\_\_\_\_  
**NUMBER** \_\_\_\_\_  
**SERIAL** \_\_\_\_\_  
**NUMBER** \_\_\_\_\_

**THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON THE MODEL PLATE ATTACHED TO THE TOP RIGHT SIDE OF DRAWBAR (REFER TO PAGE 16).**

**YOU SHOULD RECORD BOTH MODEL AND SERIAL NUMBERS AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.**

**CONTROL PANEL**--with Throttle, Choke, Light Switch, Ignition Switch, Ammeter, Parking Brake Lever and Electric Lift Switch--conveniently grouped for ease of use.

**ATTACHMENT VERSATILITY**--handles a large variety of Sears Yard and Garden Tractor Attachments including . . .  
**MANUAL OR ELECTRIC LIFT.**

**44 INCH MOWER** with three "high-lift" blades to stand grass up for level cuts.

**SELF POWERED ROTO TILLER** prepares soil for new lawns and gardens with a 30 inch wide tilling path.

**OTHER SOIL TILLAGE ATTACHMENTS** including Plow, Disc Harrow, Drag Harrow and Cultivator.

**CHEVRON TIRES** for added traction in loose soil, gravel or snow.

**46 INCH DOZER BLADE** levels or moves dirt and gravel or removes snow.

**42 INCH SNOW BLOWER** handles wet, heavy powdery snow with ease.

**REAR GRADER AND LEVELER BLADE** levels new yards, grading lanes, drive ways and parking areas.

### **FULL ONE YEAR WARRANTY ON ELECTRIC START GARDEN TRACTOR**

For one year from the date of purchase, when this Garden Tractor is used for personal household purposes, Sears will repair any defect in material or workmanship in this Garden Tractor, except the battery, at no charge.

If this Garden Tractor is used for commercial or rental purposes, this warranty applies for only 30 days from the date of purchase.

### **FULL 90-DAY WARRANTY ON BATTERY**

For 90 days from the date of purchase, if any battery included with the Garden Tractor proves defective in material or workmanship and will not hold a charge, Sears will replace the battery, at no charge.

### **LIMITED WARRANTY ON BATTERY**

From the 91st day until one year from the date of purchase, if any battery included with the Garden Tractor proves defective in material or workmanship and will not hold a charge, Sears will replace the battery, charging 1/12th of the price of the new battery for each full month from the date of purchase.

Warranty service is available at your home, at no charge, by simply contacting the nearest Sears store or Service Center throughout the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co.  
Sears Tower  
BSC 41-3  
Chicago, IL 60684

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## RULES FOR SAFE OPERATION

1. Know the controls and how to stop quickly. READ THE OWNER'S MANUAL.
2. Do not allow children to operate the vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. Keep children and pets a safe distance away.
4. Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
5. Keep your eyes and mind on your tractor, mower and the area being cut. Don't let other interests distract you.
6. Do not attempt to operate your tractor or mower when not in drivers seat.
7. Always get on or off your tractor from the operators left hand side.
8. Clear the work area of objects which might be picked up and thrown.
9. Disengage all attachment clutches and return speed control lever to neutral before attempting to start the engine.
10. Disengage power to attachments and stop the engine before leaving the operator's position.
11. Disengage power to mower, stop the engine and disconnect spark plug wire(s) from spark plug(s) before cleaning, making an adjustment or repairs.
12. Disengage power to attachments when transporting or not in use.
13. Take all possible precautions when leaving the vehicle unattended, such as disengaging the power-take-off, lowering the attachments, returning drive control lever to neutral, shifting into neutral, setting the parking brake, stopping the engine, and removing 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.
15. Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
16. While going up or down slopes choose a speed low enough to negotiate the slope without stopping. To reduce speed, move drive control lever toward neutral position.
17. Never mow in wet or slippery grass, when traction is unsure or at a speed which could cause a skid.
18. Stay alert for holes in the terrain and other hidden hazards.
19. Do not drive too close to creeks, ditches and public highways.
20. 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 object.
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.
  - c. Do not turn sharply. Use care when backing.
  - d. Use counterweight or wheel weights when suggested in the owner's manual.
24. Watch out for traffic when crossing or near roadways.
25. 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 cap of the fuel tank or add gasoline to a running or hot engine, or fill the fuel tank indoors. Wipe up spilled gasoline.
  - c. 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.
28. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
29. 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.
31. Except for adjustment; 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 THE 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.
35. When using the vehicle with mower, proceed as follows:
  - a. Mow only in daylight or in good artificial light.
  - b. Never make a cutting height adjustment while the engine is running if the operator must dismount to do so.
  - c. Shut the engine off when removing the grass catcher or unclogging chute.
  - d. Check the blade mounting bolts for proper tightness at frequent intervals.
36. Check the grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.
37. Do not operate the Mower without the entire grass catcher, on mowers so equipped, or the deflector shield in place.
38. 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.



**LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS-ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.**

### 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 state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

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. See your Authorized Service Center for spark arrester muffler part number 677A936.

**CAUTION: DO NOT OPERATE VARIDRIVE CONTROL (FIG. 11) UNLESS ENGINE IS RUNNING. DAMAGE MAY OCCUR TO VARIDRIVE SYSTEM.**

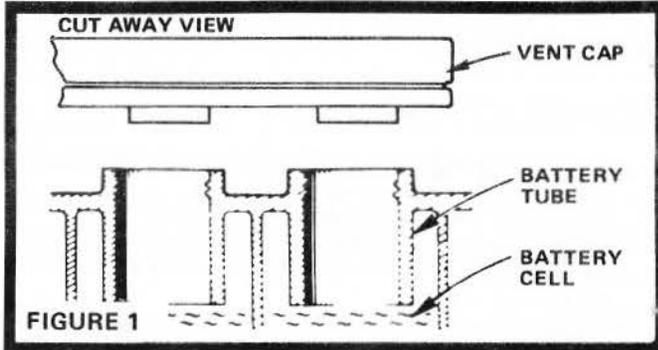


FIGURE 1

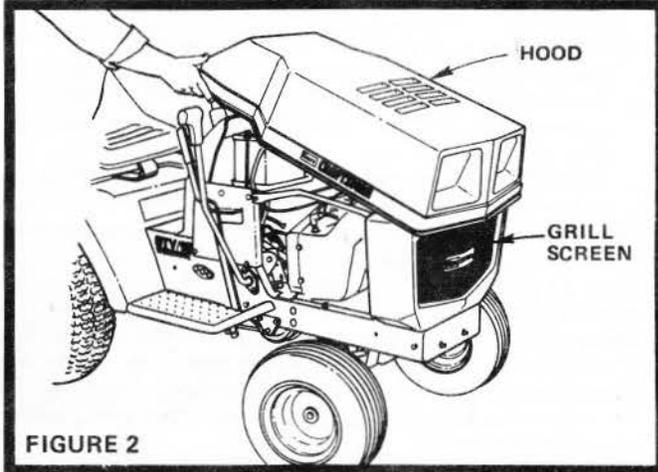


FIGURE 2

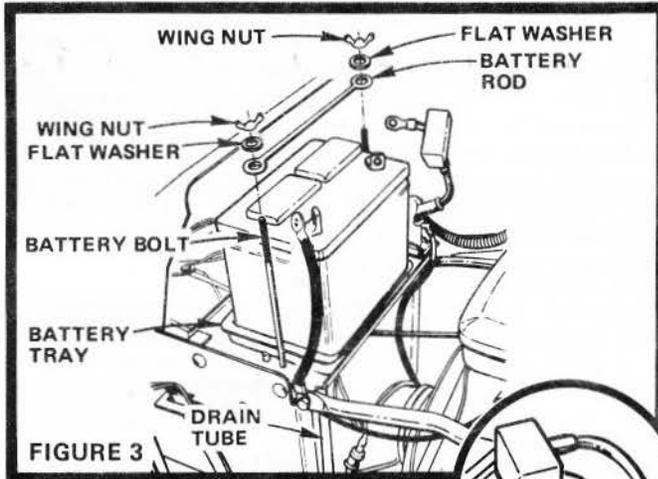


FIGURE 3

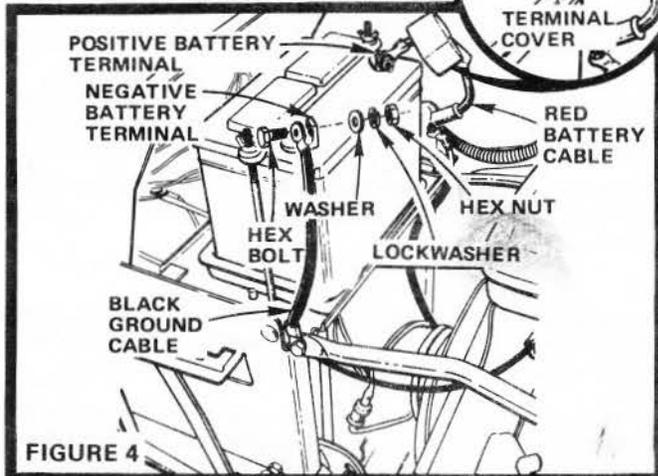


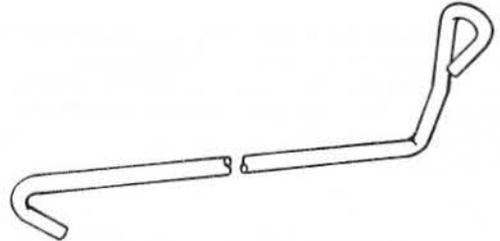
FIGURE 4

**To assemble and adjust your Tractor you will need: one 3/4" socket, two 7/16" wrenches and one 11/16" wrench**

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

## ASSEMBLY

1. Remove Shipping Strap Banding, Bundling Wires, Battery, Steering Wheel and Bag of Parts. Also there is a Hold Down Rod (shown below) holding front end of tractor to wood crate. Remove Lag Screw from Hold Down Rod and wood crate. Discard Rod and Screw.



2. Fill and charge Battery (before installing). **NOTE: SEE DETAILED INSTRUCTIONS PACKAGED WITH BATTERY.**



**WEAR EYE AND FACE SHIELD.**

- a. Fill Battery with electrolyte to bottoms of tubes in cells (Fig. 1). **NOTE: DO NOT OVERFILL. OVERFILLING WILL RESULT IN DAMAGE TO TRACTOR.**



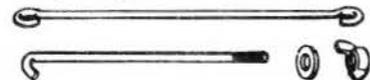
**WASH HANDS OR CLOTHING IMMEDIATELY IF ACCIDENTALLY IN CONTACT WITH ELECTROLYTE.**

- b. Check level of electrolyte after 30 minutes. Add additional electrolyte if necessary. **NOTE: TIGHTEN VENT CAPS SECURELY.**
- c. Charge Battery at a rate not exceeding three amperes for about two and one half hours.

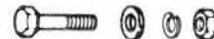


**DO NOT SMOKE, FUMES FROM CHARGED ELECTROLYTE ARE EXPLOSIVE.**

- d. Neutralize excess electrolyte for disposal by adding to four inches of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
3. Install Battery using:



Battery Rod, two Wing Nuts, two Flat Washers, two Battery Bolts,



two Flat Washers, two Lockwashers, two Hex Bolts and two Hex Nuts found in Bag of Parts.

- a. Lift Hood from rear sides (Fig. 2).
- b. Remove tape from Plastic Tray. Make sure Drain Tube (Fig. 3) is fastened to Drain Hole in Battery Tray and Battery Tray is positioned in hole of Battery Support.
- c. Place Battery in Plastic Tray (Battery Terminals to front of Tractor) (Fig. 3).

**NOTE: TIGHTEN WING NUTS SECURELY USING YOUR THUMB AND FOREFINGER. DO NOT USE TOOLS - OVER TIGHTENING MAY OVERSTRESS OR CRACK THE BATTERY CASE.**

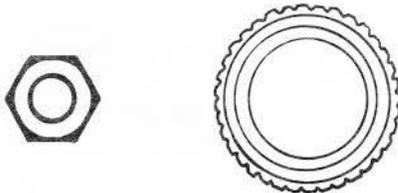
- d. Hook Battery Bolt into slot on the left side of Battery Support (Fig. 3). Fasten Battery Rod to Battery Bolt with a Flat Washer and Wing Nut.
- e. Hook remaining Battery Bolt into slot in R.H. side of Battery Support and fasten Battery Rod with a Flat Washer and Wing Nut (Fig. 3). Tighten Wing Nuts securely.
- f. Position Terminal Cover over RED Battery Cable (Fig. 4).
- g. Connect RED Battery Cable to Positive (+) Battery Terminal with Hex Bolt, Flat Washer, Lockwasher and Hex Nut (Fig. 4). Form Cable in an upward position (Fig. 4) and tighten securely. Place Terminal Cover over Terminal. NOTE: PULL TERMINAL COVER FORWARD TO ENCLOSE BATTERY TERMINAL (FIG. 4 - INSET).



**POSITIVE TERMINAL MUST BE CONNECTED FIRST TO PREVENT SPARKS FROM ACCIDENTAL GROUNDING.**

- h. Connect BLACK Ground Cable to Negative (-) Battery Terminal with remaining Hex Bolt, Flat Washer, Lockwasher and Hex Nut (Fig. 4). Tighten Nut securely.

4. Close Hood.
5. Install Steering Wheel using:



Hex Nut and Steering Wheel Insert Cap found in bag of parts.

- a. Place Steering Wheel on Shaft (Fig. 5).
- b. Fasten with Hex Nut. Tighten securely.
- c. Press Steering Wheel Insert Cap in place.

NOTE: A SPARK ARRESTOR MUFFLER (PAGE 1) IS AVAILABLE AS AN ACCESSORY PART FOR YOUR TRACTOR. CHECK LEGAL REQUIREMENTS IN YOUR AREA.

## INITIAL ADJUSTMENTS

1. Reduce Tire pressure to 14 pounds in front and 10 pounds in rear Tires. (Tires were overinflated for shipping purposes).
2. Seat position may be adjusted forward or backward by loosening Bolt in Seat Plate (Fig. 6). NOTE: WHEN RETIGHTENING BOLT AFTER ADJUSTMENT, MAKE SURE SEAT PLATE HAS NOT TWISTED OUT OF ALIGNMENT WITH SEAT SPRING.

## INITIAL SERVICE

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

1. Check Engine Oil Level with Tractor on level ground. Wipe dipstick (Fig. 7) clean, push it in tight for a few seconds, remove and read Oil Level. If necessary, add Oil until "FULL" mark is reached. In summer use S.A.E. 30 (SC, SD, SE or SF) Oil. In winter (below 32°F.) use S.A.E. 10W30 (SC, SD, SE or SF). In extreme cold (below 0°F.) use S.A.E. 5W20 (SC, SD, SE or SF). DO NOT USE 10W40 OIL. NOTE: DO NOT OVERFILL.
2. Fill Fuel Tank (Fig. 6) with fresh, clean regular grade leaded or low-lead automotive gasoline only. Capacity is 3 - 1/2 gallons. NOTE: DO NOT SWITCH FROM LEADED TO LEAD-FREE GASOLINE.

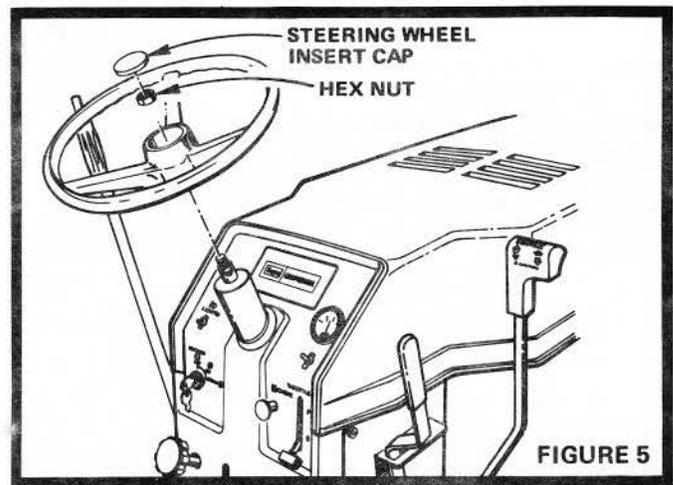


FIGURE 5

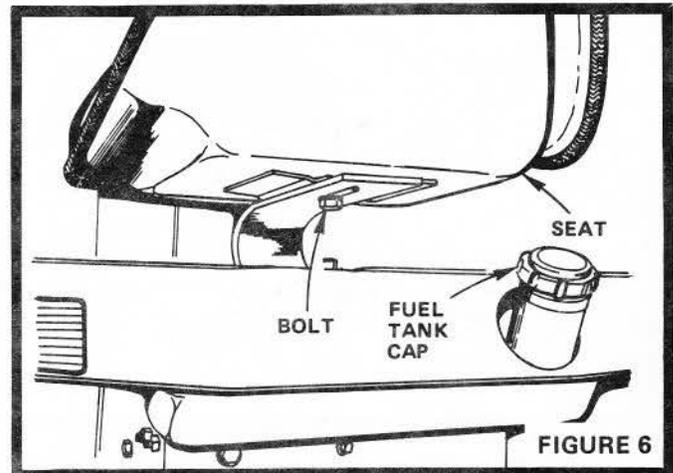


FIGURE 6

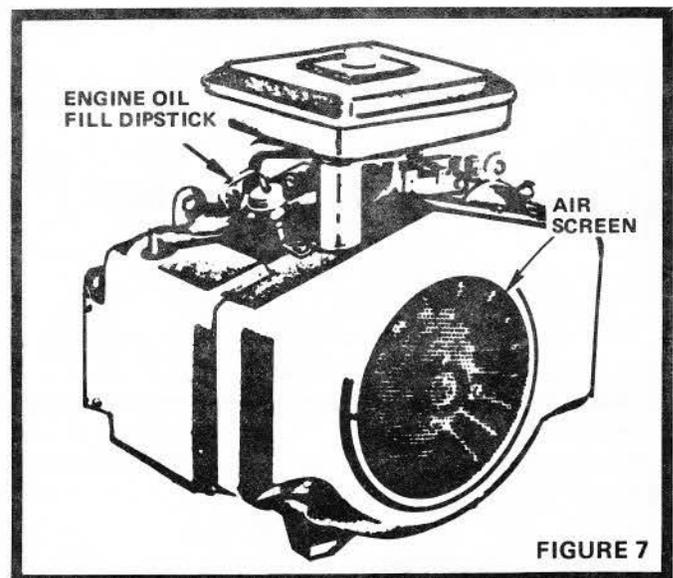
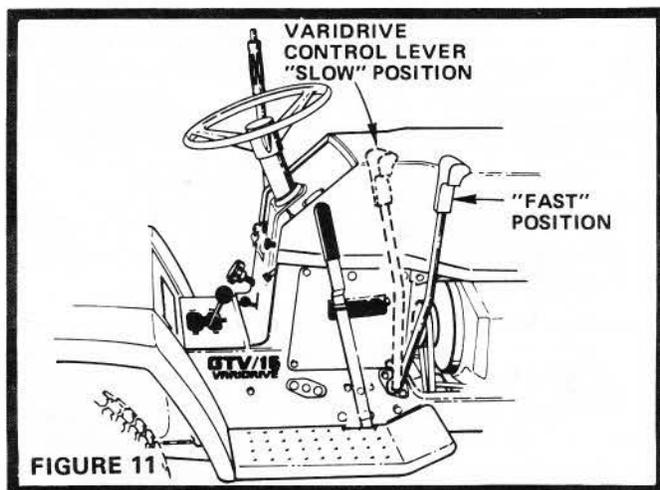
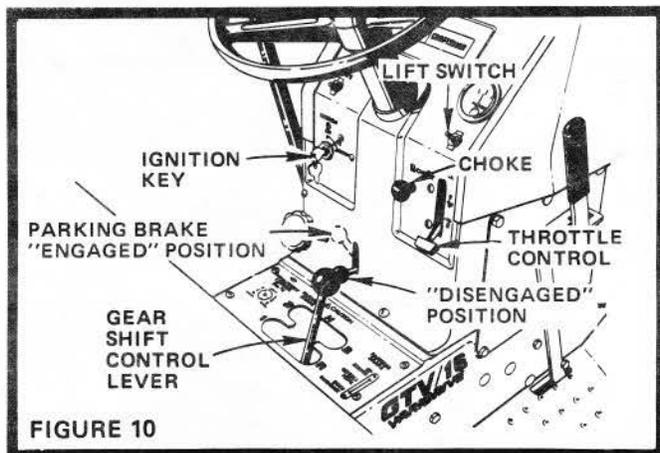
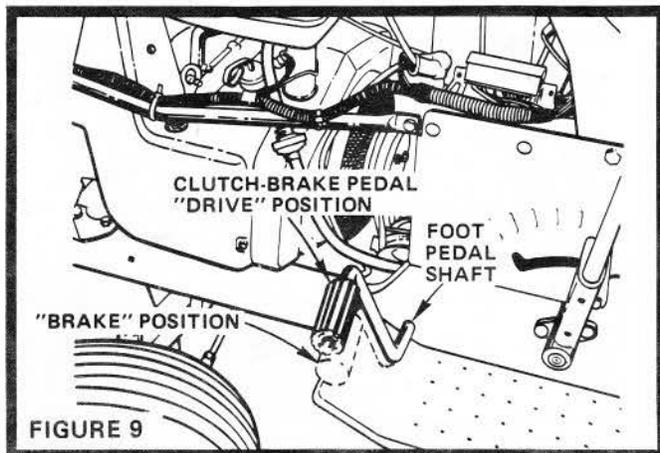
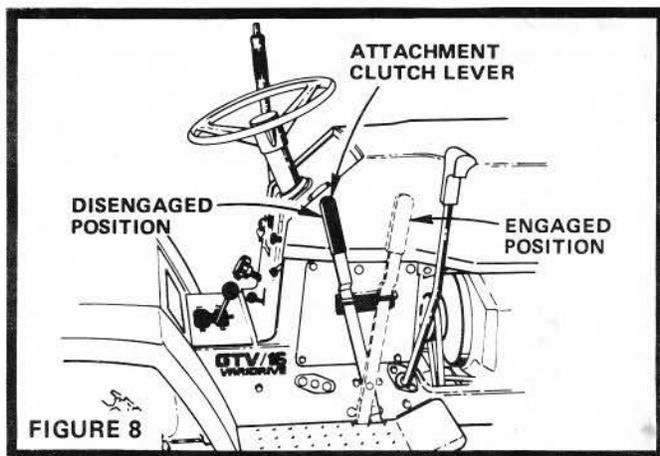


FIGURE 7

WARNING: Do not use Gasohol. Gasohol type alcohols react with water content in the fuel and tend to form strong acids which can corrode metal parts, even eat rubber and plastics.



**FILL TO BOTTOM OF GAS TANK FILLER NECK. DO NOT OVERFILL. WIPE OFF ANY SPILLED OIL OR FUEL.**



## OPERATION



### CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
  - a. Shift transmission to neutral.
  - b. Set Parking Brake.
  - c. Disengage Attachment Lever.
  - d. Shut off engine.
  - e. Remove Ignition Key.
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.



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



**THIS TRACTOR IS EQUIPPED WITH INTERLOCK SWITCHES TO PREVENT STARTING OF THE TRACTOR ENGINE WHILE THE ATTACHMENT CLUTCH LEVER IS IN THE ENGAGED POSITION (FIG. 8) AND THE CLUTCH BRAKE PEDAL IS IN DRIVE POSITION (FIG. 9).**



**IMMEDIATELY REPLACE SWITCHES THAT ARE NOT IN PROPER WORKING ORDER. DO NOT ATTEMPT TO DEFEAT THE PURPOSE OF THESE SWITCHES.**

## STARTING THE ENGINE

1. Place Attachment Clutch Lever in "DISENGAGED" position (Fig. 8).
2. Push Clutch-Brake Pedal fully into brake position (Fig. 9).
3. Place Parking Brake Lever in "ENGAGED" position (Fig. 10).
4. Place Gear Shift Control Lever in "NEUTRAL", start position (Fig. 10).
5. Pull Choke out (Fig. 10).
6. Move Throttle Control to middle position (Fig. 10).
7. Turn Ignition Key to "START" position until Engine starts (Fig. 10). Release key into "ON" position.  
**NOTE: DO NOT RUN STARTER CONTINUOUSLY FOR MORE THAN THIRTY SECONDS AT A TIME. If engine does not start after several attempts, move Throttle Control to "FAST" position, wait a few minutes, and try again.**



**ALWAYS WEAR SUBSTANTIAL FOOTWEAR AND AVOID LOOSE FITTING CLOTHING THAT COULD GET CAUGHT IN MOVING PARTS.**

**NOTE: THE LIFT SWITCH (FIG. 10) RAISES OR LOWERS FRONT, MID, OR REAR MOUNTED ATTACHMENTS WHEN USED WITH AN ELECTRIC ACTUATOR KIT (OPTIONAL EQUIPMENT).**

## WARMING UP THE ENGINE

Move Throttle Control to "SLOW" position. Push Choke in as engine warms up. NOTE: ALLOW ENGINE TO WARM UP FOR A FEW MINUTES BEFORE OPERATING.

When restarting a warm engine, move Throttle Control midway between "SLOW" and "FAST" position. Choke may not have to be used.

## TRACTOR OPERATION

1. With engine running and warm, place Throttle Control midway between "SLOW" and "FAST" position.
  2. Push Clutch-Brake Pedal down firmly to disengage Parking Brake and hold Clutch-Brake Pedal in Brake position (Fig. 9).
  3. Move Gear Shift Control Lever to desired gear (Fig. 10).
  4. Release Clutch-Brake Pedal SLOWLY to start forward movement.
  5. Move Varidrive Control Lever to desired speed (Fig. 11). If ground travel is too slow advance Throttle Lever.
- NOTE: ALWAYS SELECT A GROUND TRAVEL SPEED THAT WILL SUIT THE TERRAIN AND THE ATTACHMENT BEING USED.



DO NOT OPERATE VARIDRIVE CONTROL UNLESS ENGINE IS RUNNING. TRANSAXLE DAMAGE MAY RESULT. DAMAGE MAY OCCUR TO VARIDRIVE SYSTEM.



BRING TRACTOR TO COMPLETE STOP BEFORE SHIFTING GEARS.



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 EITHER THE ENTIRE GRASS CATCHER, ON MOWERS SO EQUIPPED, OR THE DEFLECTOR SHIELD IN PLACE.

NOTE: ALWAYS OPERATE ENGINE AT FULL ENGINE RPM WHEN MOWING TO ASSURE BETTER MOWING PERFORMANCE, LONG ENGINE LIFE AND PROPER DISCHARGE OF CUT MATERIAL.

## ATTACHMENT LIFT ADJUSTMENT

Due to different weights of Attachments, the Attachment Lift Spring may require adjustment. The Adjustment Bolt is located on rear of tractor top left side (Fig. 12).

1. Holding Spring Bushing with Wrench, loosen Jam Nut.
2. Turn Adjustment Bolt clockwise to extend Spring and reduce lift effort (for heavier Attachments).
3. Turn Adjustment Bolt counterclockwise to decrease lift effort (for lighter Attachments).
4. Retighten Jam Nut against Spring Bushing.



DO NOT ADJUST FOR MAXIMUM SPRING EXTENSION WHEN USING LIGHT ATTACHMENTS, SUCH AS MOWER.



ADJUST LIFT SPRING TO AID IN LIFTING ATTACHMENT, DON'T OVER POWER SPRING.

## STOPPING YOUR TRACTOR

1. Push Clutch-Brake Pedal completely into "BRAKE" position.

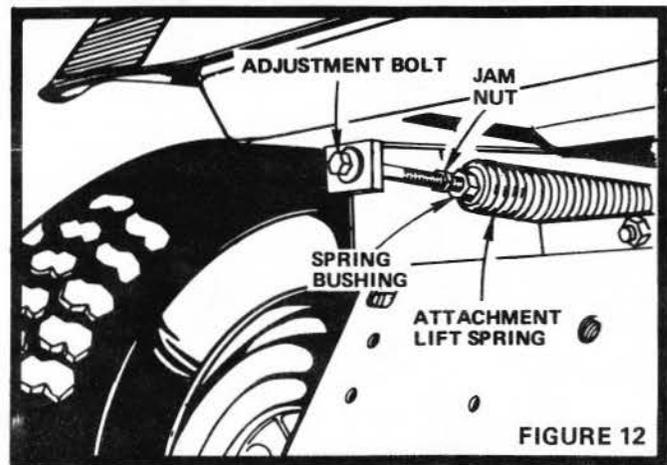


FIGURE 12

2. Move Shift Control Lever to "NEUTRAL" position.
3. Place Parking Brake in "ENGAGED" position.



CLUTCH-BRAKE PEDAL SHOULD REMAIN COMPLETELY DEPRESSED WHEN FOOT PRESSURE IS RELEASED.

4. Place Attachment Clutch Lever in "DISENGAGED" position and lower attachment to the ground.
5. Move Throttle Control to "SLOW" position.
6. Move Varidrive Control Lever to "SLOW" position.
7. Turn Ignition Key to "OFF" position.



REMOVE KEY WHEN LEAVING TRACTOR TO PREVENT UNAUTHORIZED USE.



MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.

## TRANSPORTING YOUR TRACTOR

TOWING IS NOT RECOMMENDED. Internal transaxle damage can result.

## TRACTOR OPERATION ON HILLS

1. Choose one of the lowest gears 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.

2. AVOID STOPPING OR SHIFTING ON HILLS.
  - a. If slowing is necessary, move Varidrive Control Lever to slower position.



LEAVE ENOUGH ROOM WHEN STOPPING AND STARTING TO ALLOW SLIGHT TRACTOR ROLL DOWNHILL AS CLUTCH-BRAKE PEDAL MOVES THROUGH CLUTCH POSITION.

- b. If stopping is absolutely necessary, push Clutch-Brake Pedal quickly to brake position and lock Parking Brake.
  - c. To restart your tractor, make sure tractor is in the lowest speed range and that you have allowed room to roll slightly downhill. Unlock Parking Brake and release Clutch-Brake Pedal SLOWLY to start tractor forward movement, then move Varidrive Control Lever to desired speed.
3. Make all turns gradually.

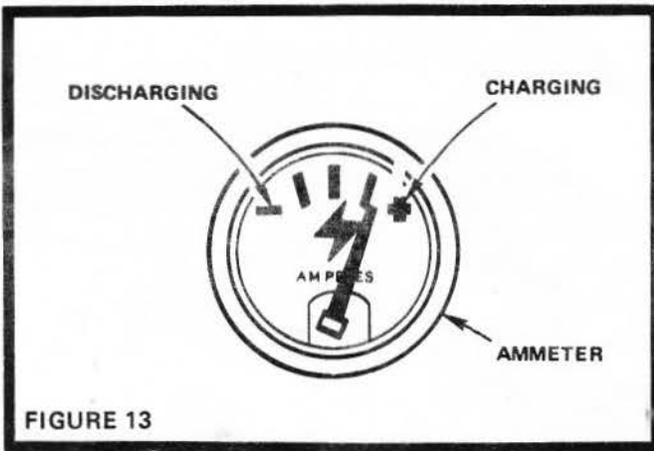


FIGURE 13

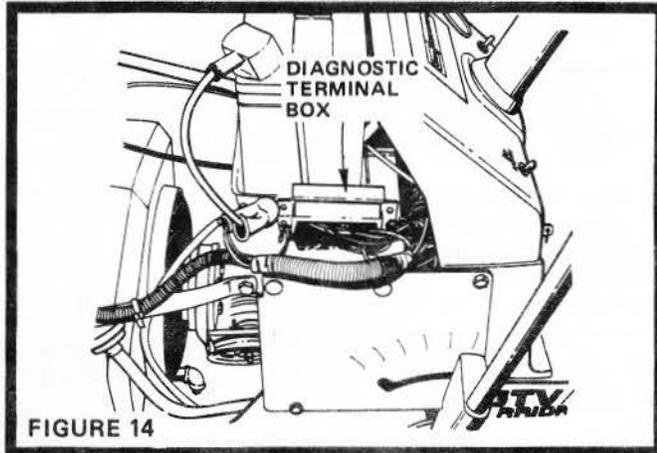


FIGURE 14

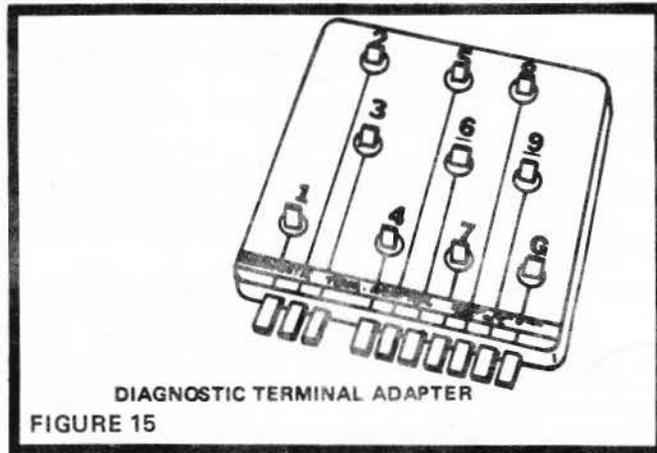


FIGURE 15

### STARTING YOUR TRACTOR WITH A LOW BATTERY

If your Battery is too low to start the 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 GROUND SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUND SYSTEM.

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

1. Connect each end of the RED cable to the POSITIVE (+) terminals of each battery (taking care not to short against chassis).
2. Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
3. Connect the other end of the cable to ENGINE BLOCK or good CHASSIS GROUND on tractor (away from Gas Tank or Battery).
4. Disconnect cables in reverse order:
  - a. Engine Block or chassis of tractor.
  - b. Negative terminal of fully charged battery.
  - c. Positive terminals.

**DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.**

## MAINTENANCE

To keep your tractor running better, longer; perform necessary service using the following Maintenance Schedule.

Each time you start your tractor, check your Ammeter (Fig. 13). The needle should move towards the + (charging) mark indicating the battery is being charged as you operate the tractor.

**DISCONNECT SPARK PLUG WIRES TO PREVENT ACCIDENTAL STARTING BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR (EXCEPT CARBURETOR).**

## DAILY MAINTENANCE

Make sure all nuts on bolts are tight and cotter pins are secure. Observe all safety precautions. Keep Tractor well lubricated (refer to page 8).

## ELECTRICAL MAINTENANCE

### DIAGNOSTIC TERMINAL BOX

Your Tractor is equipped with a Tractor Diagnostic Terminal Box which is used to simplify electrical system diagnosis. The location of the Diagnostic Terminal Box is shown in Fig. 14. The Diagnostic Terminal Box provides access to a number of test points within the electrical system of the tractor.

**WHEN USING THE DIAGNOSTIC TERMINAL BOX - ENGINE TO BE STOPPED AND IGNITION OFF.**

**USE PROPER EQUIPMENT IN THE CHECKING OF ELECTRICAL SYSTEM THROUGH THE DIAGNOSTIC TERMINAL BOX.**

The Diagnostic Terminal Box is designed to accept the Diagnostic Terminal Adapter (optional) (Fig. 15), which is available from Sears (Part No. 677A823). If you order the Adapter, also order the Test Procedure Manual (Manual No. 8102J), showing diagnostic procedures and components of electrical circuits.

To perform the testing with the Diagnostic Terminal Box, a quality multimeter or automotive analyzer is required.

# FIRST 2 HOURS

## 1. CHECK BELT ADJUSTMENT

New Belts may stretch after the first few hours of operation resulting in loss of power.

- With engine running, transmission in neutral, place Vari-drive Control Lever in "FAST" position (Fig. 11) and check if Secondary Belt (Fig. 16 - Inset) rides flush with outside of Variator Sheave. (DO NOT PUSH DOWN ON CLUTCH PEDAL).
- If Secondary Belt is riding down in groove of Variator Sheave adjustment is required.

## 2. V-BELT ADJUSTMENT

- With engine running, transmission in neutral, move Varidrive Control Lever to medium position (straight up) (Fig. 11).
- Loosen Adjustment Nuts "A" and "B" on Varidrive Stop Plate (Fig. 16).
- Start Engine and run at Idle speed.
- Slowly move Varidrive Control Lever (Fig. 11) forward ("FAST" position) until Secondary Belt is riding flush with outside of Variator Sheave (Fig. 16 - Inset). (DO NOT PUSH DOWN ON CLUTCH PEDAL).
- Shut Engine off holding Varidrive Control Lever in position described in Step e.
- Rotate Variator Stop Plate upward until Adjustment Stop Bolt "B" (Fig. 16) hits bottom of Stop Plate Slot.
- Hold Stop Plate in this position and tighten Adjustment Nuts "A" & "B" to secure.
- Adjustment Nut "A" maintains the Variator Belt Adjustment. Adjustment Nut "B" maintains the Varidrive Handle tension.
- Readjust as needed thereafter.

NOTE: FOR LONGER BELT LIFE, ALWAYS KEEP BELTS ADJUSTED PROPERLY. START TRACTOR MOVEMENT WITH THROTTLE CONTROL IN MIDDLE POSITION. ALWAYS REPLACE WITH SEARS BELTS.

## 3. 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.

- Drain Oil with Engine warm. Unscrew Oil Drain Plug (Fig. 18) and catch Oil in a suitable container. Replace Plug.
- Refill Engine Oil (Fig. 17). In summer use S.A.E. 30 (SC, SD, SE or SF) Oil. In winter (below 32°F.) use S.A.E. 10W30 (SC, SD, SE or SF). In extreme cold (below 0°F.) use S.A.E. 5W20 (SC, SD, SE or SF). DO NOT USE 10W40 OIL. Refill capacity is 3 pints. NOTE: DO NOT OVERFILL.

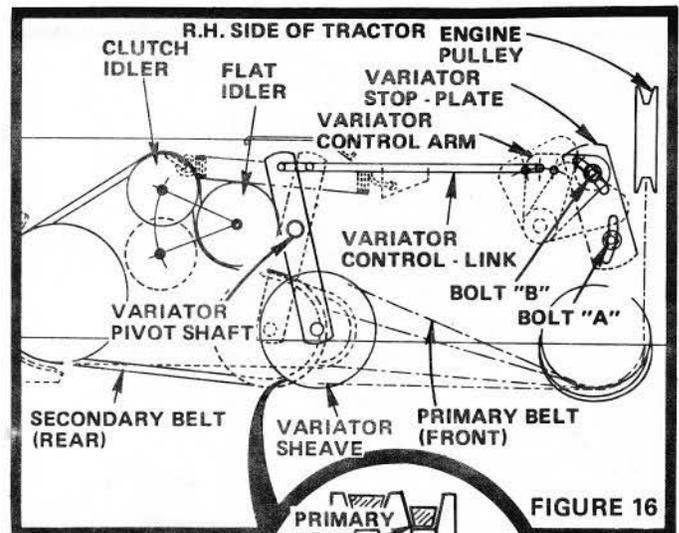


FIGURE 16

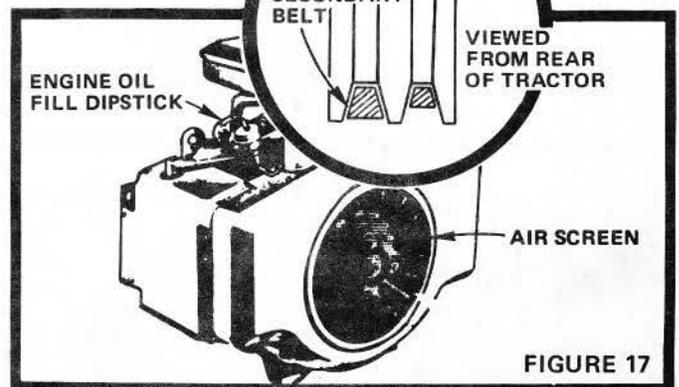


FIGURE 17

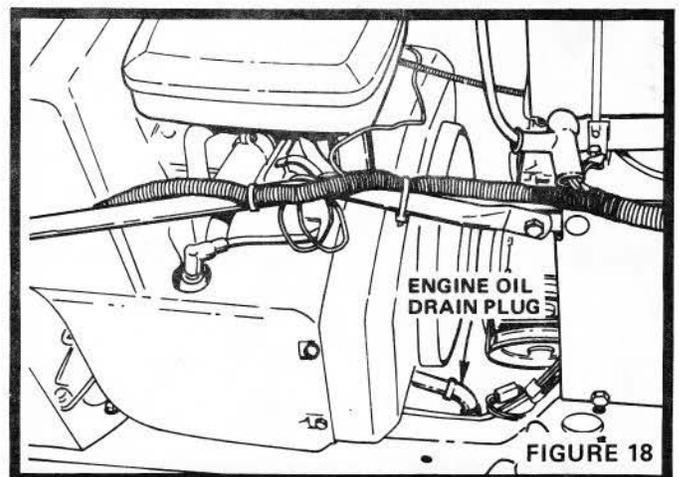


FIGURE 18

## FREQUENTLY

### 1. CHECK BATTERY

- Electrolyte solution level in each Battery Cell should be even with bottoms of tubes in cells (Fig. 19). Add distilled water if necessary. NOTE: DO NOT OVERFILL.
- Keep Battery and Terminals clean. Refer to page 12, step 6.
- Keep Battery Bolts tight.
- Keep Vent Caps tight and small vent holes in Caps open.
- Recharge SLOWLY at 3 amperes if necessary.

### 2. CHECK TIRE PRESSURE

Tire pressure in front should be 14 pounds and rear Tires should be 10 pounds.

### 3. CLEAN AIR SCREEN

Air Screen (Fig. 17) must be kept free of dirt and chaff to prevent Engine damage from overheating.

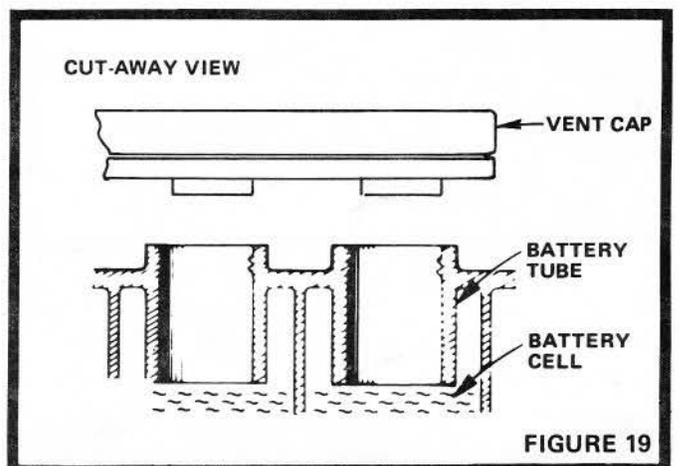
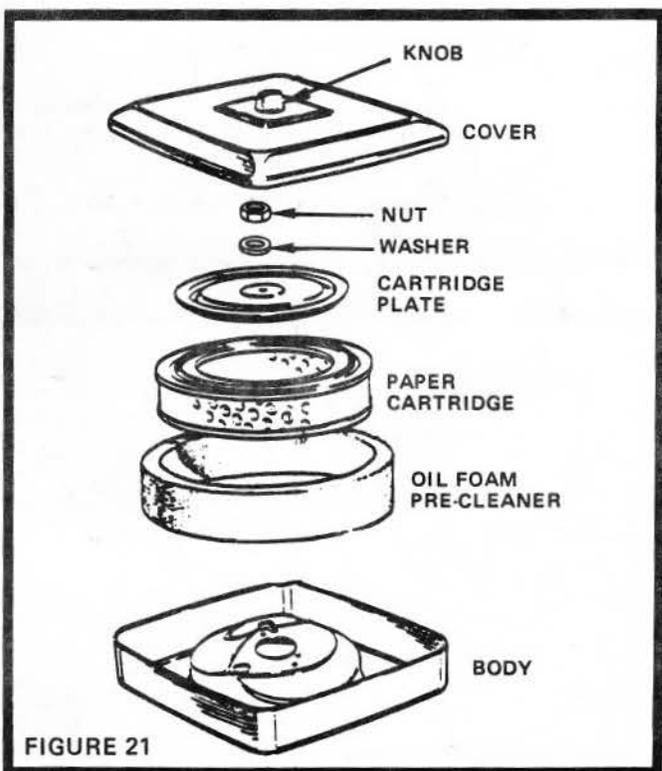
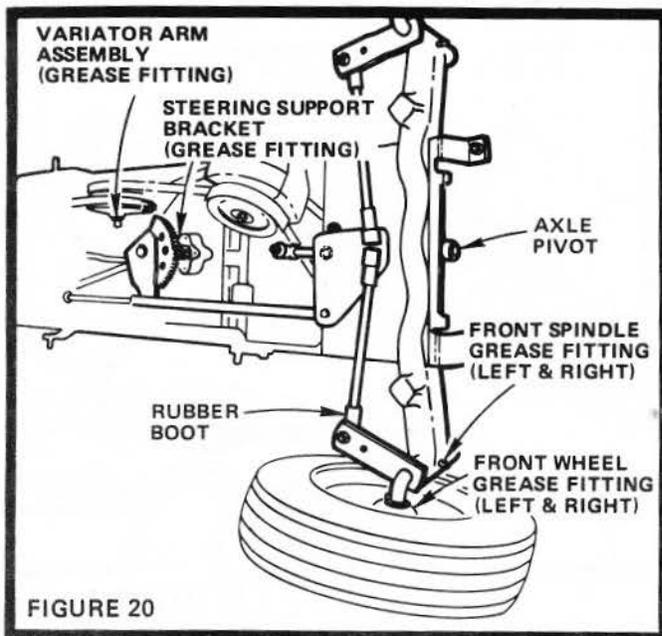


FIGURE 19



## EVERY 5 HOURS

### 1. CHECK ENGINE OIL LEVEL



**DO NOT CHECK ENGINE OIL LEVEL WITH ENGINE RUNNING.**

Several minutes after stopping Engine, check Engine Oil Level with Tractor on level ground. Wipe dipstick (Fig. 17) clean, push it down tight for a few seconds, remove and read Oil Level. If necessary, add Oil until "FULL" mark is reached. In summer use S.A.E. 30 (SC, SD, SE or SF) Oil. In winter (below 32°F.) use S.A.E. 10W30 (SC, SD, SE or SF). In extreme cold (below 0°F.) use S.A.E. 5W20 (SC, SD, SE or SF). DO NOT USE 10W40 OIL. NOTE: DO NOT OVERFILL.

## EVERY 25 HOURS

(EVERY 15 HOURS IF OPERATING IN VERY DUSTY CONDITIONS)

### 1. CLEAN FOAM PRE-CLEANER.

- Unscrew Knob (Fig. 21) to remove Cover.
  - Remove Nut and Washer to remove Cartridge Plate, Paper Cartridge and Oil Foam Pre-Cleaner.
  - Wash Foam Pre-Cleaner in detergent and water.
  - Rinse, squeeze (rather than twist) and allow to dry thoroughly.
  - Coat with three tablespoons of S.A.E. 30 Engine Oil, squeeze to distribute evenly, and squeeze out excess.
  - Check Paper Cartridge. Replace if excessively dirty.
  - Reassemble Paper Cartridge and re-position on Tractor.
- NOTE: NEVER RUN ENGINE WITH AIR CLEANER REMOVED.

### 2. CLEAN AIR SCREEN

Air Screen (Fig. 22) 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.

### 3. CHANGE ENGINE OIL

The best time to change Engine Oil is at the end of a days operation when all dirt and foreign material is suspended in the hot Oil. Refer to page 7.

### 4. CLEAN FRONT GRILL SCREEN

The Front Grill Screen (Fig. 2) must allow free flow of air to prevent engine damage from overheating.

- Remove Grill Screen by removing two screws.
- Clean with a wire brush, compressed air or water pressure to remove dirt, chaff, stubborn dried gum and fibers.
- Replace Grill Screen and secure screws.

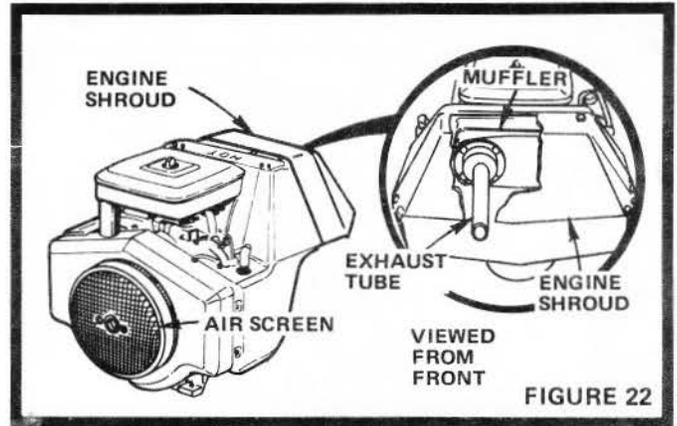
### 5. LUBRICATE STEERING AND FRONT WHEELS

There are seven Grease Fittings on your Tractor (Fig's. 20 and 24). Using a Grease Gun, give each Grease Fitting two shots of Extreme Pressure Lubricating Grease Amdex No. 1 or equivalent (available through your Sears Service Center).

## 6. OIL PIVOT POINTS

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

- Front Axle Pivot (Fig. 20).
- Hood Hinges.
- Foot Pedal Shaft (Fig. 9).
- Lift Shaft Bushings (Fig. 33).
- Polyfoam Seal at Variator Pivot Shaft (Fig. 16) (saturate with oil).
- Polyfoam Seal (behind Flat Idler) at Clutch Idler Pivot Arm (saturate with oil) (Fig. 16).
- Clutch Link and Varidrive Link, see page 22, Key No's. 45 and 47.
- Varidrive Handle Pivot Bushing (Fig. 33).



## EVERY 50 HOURS

### 1. CLEAN ENGINE COOLING FINS

Remove any dust, dirt or oil from Engine Cooling Fins to prevent Engine damage from overheating (Fig. 23).

### 2. CHECK TRANSAXLE OIL LEVEL

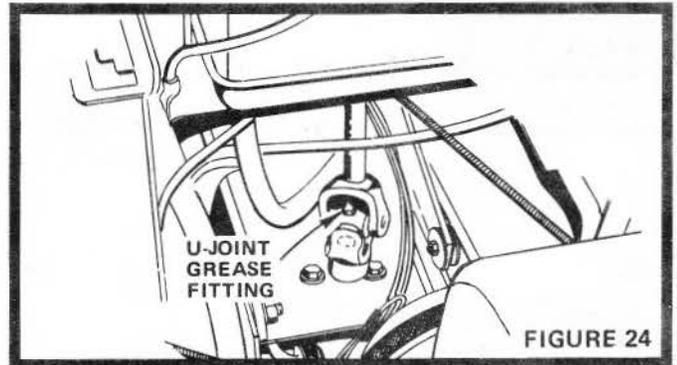
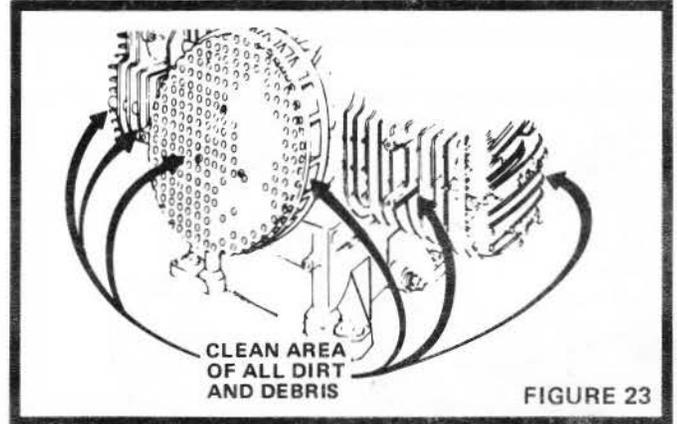
- Remove Filler Plug (Fig. 25) from Transaxle. Oil Level should be even with Filler Plug threads. Add S.A.E. 30 Motor Oil if necessary.
- Check Pressure Relief Valve (Fig. 27 - Inset) located on R.H. side near top. It should spring completely closed when pulled out by hand and released.

### 3. LUBRICATE STEERING U-JOINT

- Lift Hood (Fig. 2).
- Rotate Steering Wheel so that U-Joint Grease Fitting is exposed (Fig. 24).
- Using a Grease Gun, give Fitting two shots of Extreme Pressure Lubricating Grease Amdex No. 1 or equivalent (available at your Sears Service Center).

### 4. MUFFLER

Do not operate the tractor without a Muffler (Fig. 22) 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. NOTE: ENGINE SHROUD AND EXHAUST TUBE (FIG. 22 - INSET) MUST BE REMOVED TO CLEAN SPARK ARRESTER SCREEN ASSEMBLY.



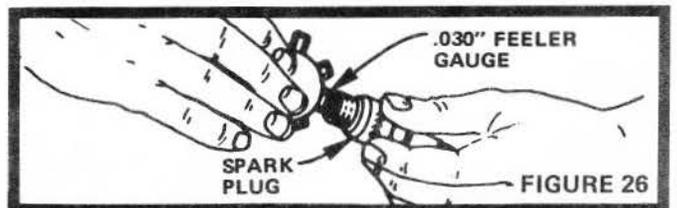
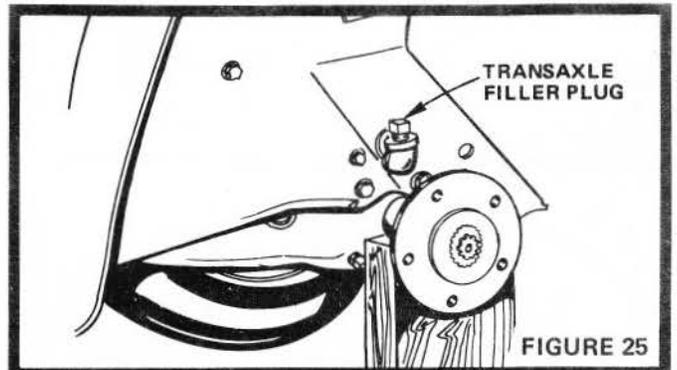
## EVERY 100 HOURS

### 1. REPLACE SPARK PLUGS & RESET GAP

Replace Spark Plugs at the beginning of each season or every 100 hours, whichever comes first. Gap should be set at .030 inch (Fig. 26). **CHAMPION RJ-12**

### 2. LUBRICATE BALL JOINTS

- Move Rubber Boots to expose Ball Joints on Tie Rods and Steering Link (Fig. 20).
- Coat Ball Joints with Silicone Spray Lubricant.
- Reposition Rubber Boots.



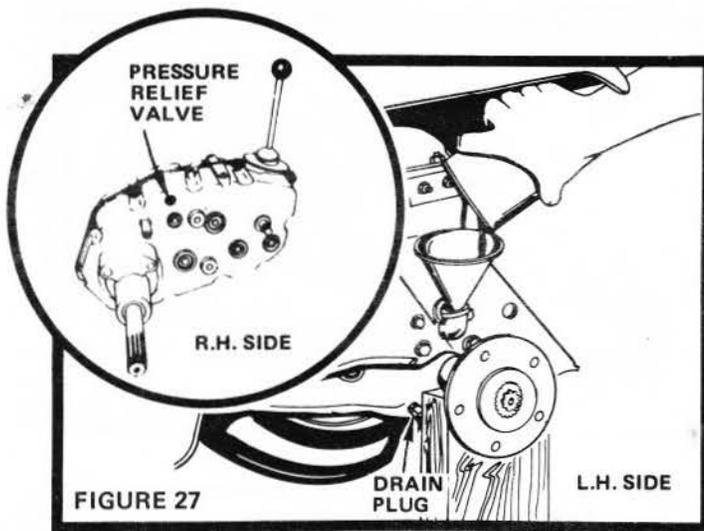


FIGURE 27

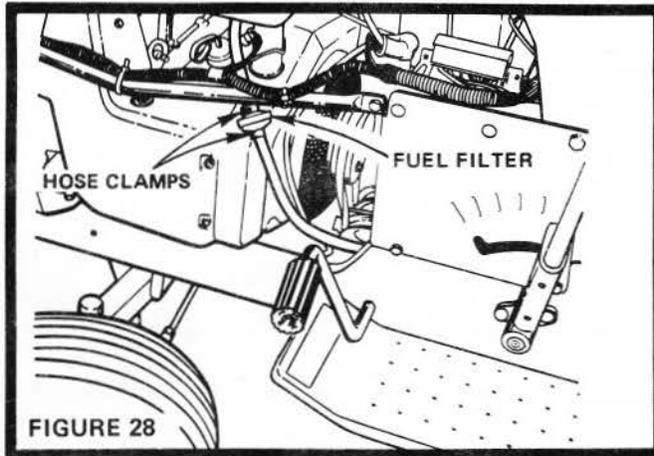


FIGURE 28

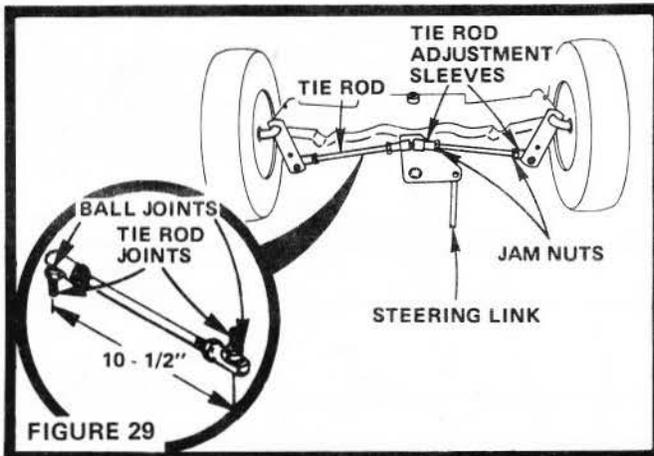


FIGURE 29

## EVERY 200 HOURS

### 1. REPLACE AIR CLEANER PAPER CARTRIDGE

Refer to page 8.

### 2. REPLACE IN-LINE FUEL FILTER

If fuel filter is clogged, obstructing fuel flow to carburetor, replacement is required.

- With Engine cool, remove and plug Fuel Line Sections as removed from both ends of Fuel Filter (Fig. 28).
- Place new Fuel Filter in position in Fuel Line (arrow on side of Filter in direction of fuel flow).



**BE SURE THERE ARE NO FUEL LINE LEAKS AND THAT FUEL LINE IS IN PROPER POSITION IN HOSE CLAMPS.**

## EVERY 500 HOURS

### 1. CHANGE TRANSAXLE OIL

- Block up Rear Axle securely or use a Tractor Jack. Remove left Rear Wheel by removing Hub Bolts (Fig. 36).
- Drain Transaxle Oil by removing Drain Plug (Fig. 27) and catching Oil in suitable container. Replace Drain Plug.
- Refill Transaxle with S.A.E. 30 (SC, SD or SE) Motor Oil. Capacity is 5 quarts. Pressure Relief Valve (R.H. side of Transaxle) (Fig. 27 - Inset) may be held open to allow Transaxle to fill more quickly.
- Check Pressure Relief Valve. It should spring completely closed when pulled out by hand and released.
- Reposition wheel. Secure with Hub Bolts.

## AS NEEDED

### 1. TOE-IN ADJUSTMENT

If any parts in Front Axle or Steering Mechanism are being replaced, Tie Rod adjustment is required.

- Loosen Jam Nuts (Fig. 29) at each end of Tie Rod Adjustment Sleeves.
- Adjust both Tie Rods so that Tie Rod Joints measure 10 - 1/2" from center to center.
- On front of front tires measure distance from center to center (measurement No. 1).
- On rear of front tires measure distance from center to center (measurement No. 2).
- Compare measurements - measurement No. 1 should be 1/8 - 1/4 less than measurement No. 2.
- If not adjust each Tie Rod equally to get correct measurement.
- Tighten Jam Nuts making sure Tie Rod Joints are parallel (180°) to each other. This adjustment secures proper front wheel Toe-In and Steering operation.

## 2. BRAKE ADJUSTMENT



IF TRACTOR REQUIRES MORE THAN SIX FEET STOPPING DISTANCE IN HIGHEST GEAR ON A LEVEL DRY CONCRETE OR PAVED SURFACE THEN BRAKE MUST BE ADJUSTED.

- Remove (4) Hex Washer Head Tapping Screws from Shift Cover Plate (Fig. 30) located on top tractor frame and remove the plate.
- Loosen Jam Nut (A) on Brake Rod (B) at Clevis (C) (Fig. 31).
- Rotate Brake Rod (B) counterclockwise until the Brake Band Assembly (E) is clear of the Brake Drum (F) (Fig. 31).
- Depress Brake-Clutch Pedal and position Park Brake Lever (G) in the forward second notch on the Lockbar (H) (Fig. 31A).
- Rotate Brake Rod (B) clockwise until Spring (D) is compressed to 1 - 3/8" (Fig. 31).
- Tighten Jam Nut (A) on Brake Rod (B) at Clevis (C) (Fig. 31).

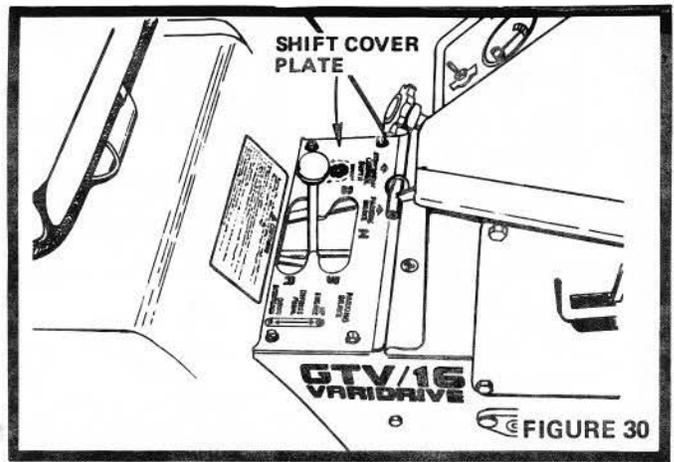


FIGURE 30

## 3. CARBURETOR ADJUSTMENT

Never attempt to change maximum engine speed. This is preset at the factory and should only be changed by a qualified service technician who has the necessary equipment.

- Adjust Carburetor to suggested initial settings.
    - Turn Needle Valve clockwise, closing finger tight ONLY, and then turn counterclockwise 1 - 1/2 turns (Fig. 32).
    - Turn Idle Valve clockwise, closing finger tight ONLY, and then turn counterclockwise 1 - 1/2 turns.
- CAUTION: Valves may be damaged if turned in too far.

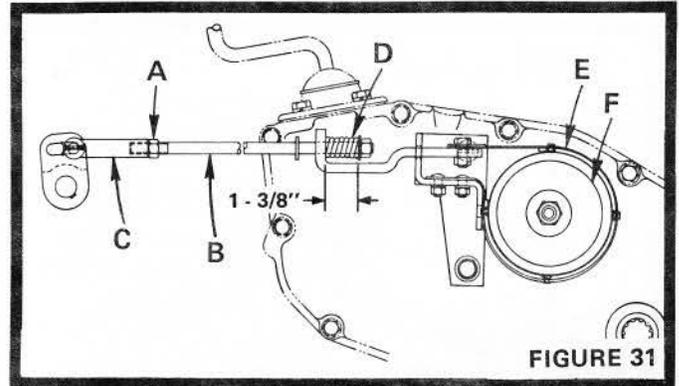


FIGURE 31



REFER TO "STARTING THE ENGINE" PAGE 4.

- Start Engine and allow to warm for five minutes. Make final adjustments with Engine running.
    - With Throttle Control in "SLOW" position, hold Throttle Lever against Idle Stop and set Idle Speed Adjusting Screw to give an engine speed of 1400 RPM. Turn Idle Valve clockwise slowly until engine begins to miss and then open 1/2 turn counterclockwise.
    - Set Idle Speed Screw to give engine speed of 900 RPM. When Throttle Lever is release from Idle Stop, engine speed should be between 1000 and 1400 RPM, controlled by governor.
- NOTE: ALL ABOVE SPEED AND FUEL MIXTURE ADJUSTMENTS MUST BE DONE WITH THE THROTTLE LEVER HELD AGAINST THE IDLE STOP AND AT SPEEDS NOTED.
- With Throttle Control in "FAST" position, turn Needle Valve slowly clockwise until engine begins to miss and then set 1/2 turn counterclockwise.
- NOTE: IF ENGINE HESITATES WHEN MOVING THROTTLE CONTROL FROM "SLOW" TO "FAST" POSITIONS, TURN NEEDLE VALVE COUNTERCLOCKWISE 1/8 TURN MORE.

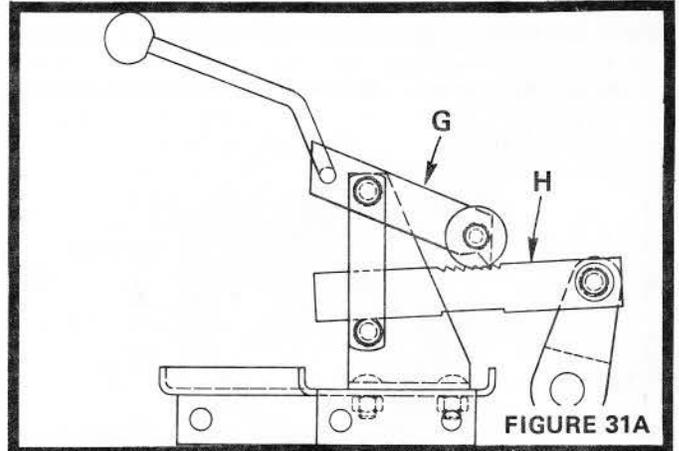


FIGURE 31A

## 4. ADJUSTMENT V-BELT

It may be occasionally necessary to re-adjust V-Belt. (See page 7).



CHECK TO MAKE SURE TRACTOR DOES NOT START WITHOUT FULLY DEPRESSING CLUTCH-BRAKE PEDAL.

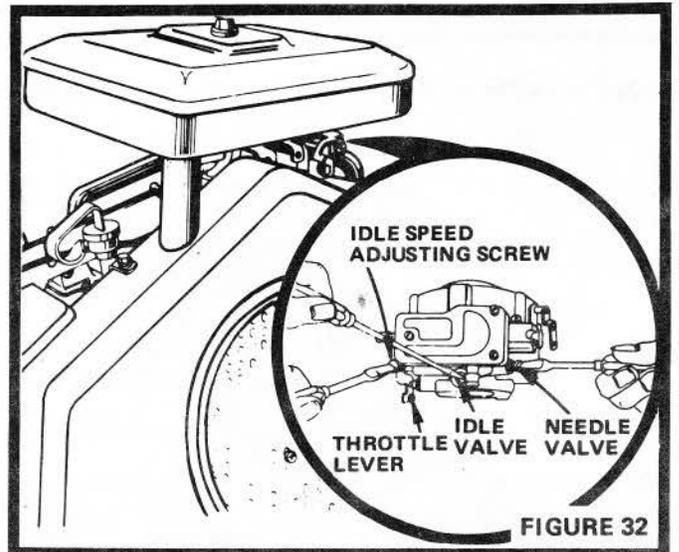


FIGURE 32

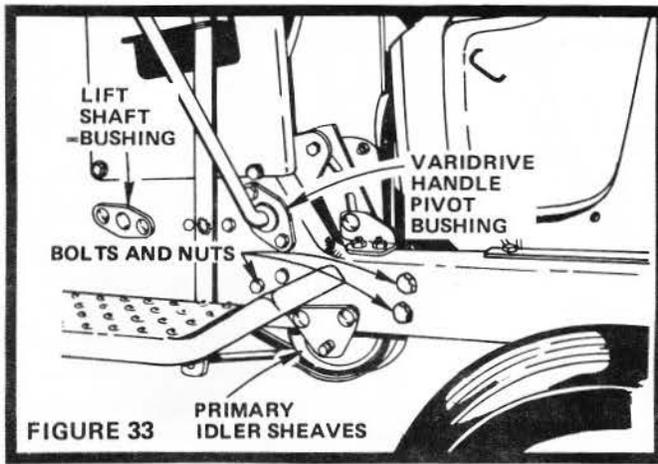


FIGURE 33

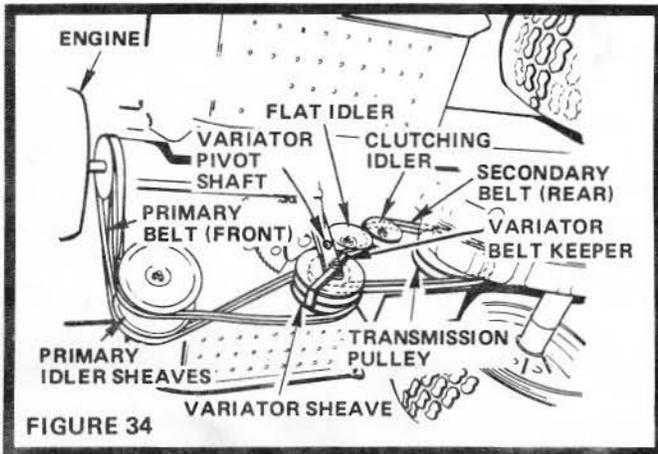


FIGURE 34

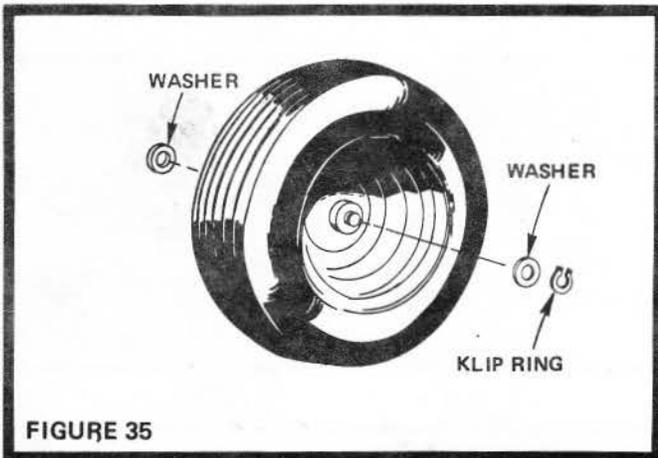


FIGURE 35

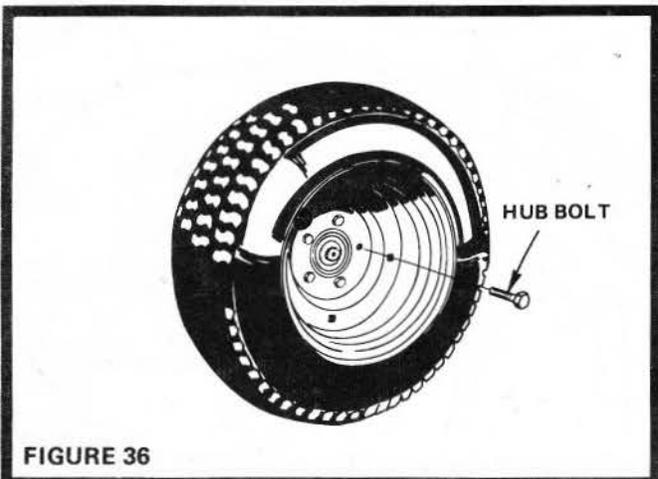


FIGURE 36

## 5. BELT REPLACEMENT

The belts on this tractor are special for this application, when replacing Belts always replace with Sears belts.

- a. Disconnect Battery, Negative Ground Cable.
- b. Set Parking Brake (Fig. 10).
- c. Pull Varidrive Control Lever to slow position (Fig. 11) giving Primary Belt slack.
- d. Remove Primary Belt from Engine Pulley (Fig. 34).
- e. Remove 3 Bolts and Nuts holding Primary Idler Sheaves to Frame (Fig. 33).
- f. Remove Klip Ring and Washer from Variator Pivot Shaft (Fig. 34). Slide Pivot Arm inwards.
- g. Remove Belt from Variator Sheave.
- h. Remove Idler Nuts and Idler Sheaves from Primary Idler Sheaves (Fig. 34).
- i. Primary (Front) Belt can now be removed.
- j. To replace Secondary (Rear) Belt move Varidrive Control Lever to fast position. Remove Variator Belt Keeper (Fig. 34) and remove Secondary Belt from Variator.
- k. Remove Clutching Idler (Fig. 34).
- l. Remove Transmission Pulley Belt Guard. Belt can now be removed from Transmission Pulley.
- m. Reverse the above procedures to install new Belts. Replace Primary Idler Package, Belt Keeper, Clutching Idler and Transmission Pulley Belt Guard.
- n. Connect Battery.

**NOTE: WHEN A NEW BELT OR BELTS ARE INSTALLED, YOU MUST CHECK BELT ADJUSTMENT. REFER TO "CHECK BELT ADJUSTMENT", PAGE 7.**

## 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 charger.

- 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 INTO 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 Vasoline.

## 7. TIRE CARE

- a. Maintain tire pressure in front at 14 pounds and rear tires at 10 pounds.
- 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. 35).
  - Block up front axle securely or use a Sears Tractor Jack.
  - Remove Klip Ring and Washer to allow wheel removal.
  - Repair tire and reassemble. Replace washer and snap Klip Ring securely in axle groove.
- e. Removing rear wheel for tire repair (Fig. 36).
  - Block up rear axle securely or use a Sears Tractor Jack.
  - Remove (5) Hub Bolts to allow wheel removal.
  - Repair tire and reassemble. Replace and tighten Hub Bolts securely.



**WHEN MOUNTING TIRES, UNLESS BEADS ARE SEATED, OVER INFLATION CAN CAUSE AN EXPLOSION.**

## 8. FINISH

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

# TROUBLE SHOOTING

## POSSIBLE CAUSE

## POSSIBLE REMEDY

### WILL NOT START

Clutch-Brake Pedal in drive position  
Attachment Clutch Lever in "ENGAGED" position  
No gasoline in Fuel Tank or clogged Fuel Line or Fuel Filter  
Blown Fuse  
Dead Battery  
Defective Ignition or loose Wiring

Push Pedal into brake position (Fig. 9)  
Move Lever to "DISENGAGED" position  
Fill Tank with fresh Gasoline, Check Fuel Line (Fig. 28) and Carburetor (clean if necessary)  
Check for fault and replace Fuse  
Recharge or replace Battery  
Check Wiring and Spark Plug

### HARD TO START

Choked improperly, flooded Engine  
  
Clogged Fuel Tank, Fuel Line, or Fuel Filter  
Dirty Air Cleaner  
Spark Plug dirty or improper gap  
Defective Battery  
Defective Ignition or loose wiring  
Water in gasoline or old fuel  
  
Improper Carburetor adjustment

Place Throttle Control in fast position (Fig. 10) and run starter several times to clear out gas  
Remove and clean (Fig. 28)  
Remove and clean (Fig. 21)  
Replace Spark Plug and adjust gap (Fig. 26)  
Recharge or replace  
Check the wiring and Spark Plug  
Drain Fuel Tank and Carburetor, use fresh fuel and replace Spark Plug  
Make necessary adjustments (Fig. 32)

### ENGINE MISSES OR LACKS POWER

Engine overload  
Clogged Fuel Filter  
Clogged Fuel Tank  
Partially plugged Air Cleaner  
Improper Carburetor adjustment  
Dirty Air Screen  
Low oil level or dirty oil  
Spark Plug dirty, improper gap or wrong type  
Faulty ignition  
Poor compression  
Oil in gasoline

Shift to a lower gear or reduce load  
Remove and replace (Fig. 28)  
Remove and clean  
Remove and clean (Fig. 21)  
Make necessary adjustments (Fig. 32)  
Clean Air Screen, Cylinder Fins (Fig. 23) & Muffler area  
Add or change oil (Fig. 7)  
Replace Spark Plug and adjust gap (Fig. 26)  
Check Spark Plug and for loose wires  
Major Engine overhaul  
Drain and refill Gas Tank and Carburetor

### ENGINE OVERHEATS

Dirty Air Screen  
Low oil level or dirty oil  
Dirty Engine  
Partially plugged Muffler  
Partially plugged Air Cleaner  
Stale fuel or improper Carburetor adjustment

Clean Air Screen (Fig. 17)  
Add or change oil (Fig. 7)  
Clean Cylinder Fins, rotating Screen and Muffler area  
Remove and clean Muffler (Fig. 22)  
Remove and clean (Fig. 21)  
Use fresh fuel and adjust Carburetor (Fig. 32)

### NO LIGHTS

No Headlight with Light Switch in "ON" position and engine running

Check Wire Connections and Switch.  
Replace Light Bulbs

### WON'T CHARGE

Blown Fuse  
Defective Battery

Check for fault and replace  
Replace

## STORAGE

### 1. ENGINE OIL

Drain (with engine warm) and replace with clean engine oil. Refer to page 7.

### 2. FUEL SYSTEM

- Drain fuel tank and carburetor by allowing the engine to run out of gasoline. NOTE: GASOLINE LEFT IN YOUR ENGINE WILL LEAVE GUM DEPOSITS CLOGGING FUEL SYSTEM.
- Dispose of gasoline if not to be used. NOTE: GASOLINE STORED FOR SEVERAL MONTHS LOSES ITS VOLATILITY (ABILITY TO BURN EFFECTIVELY).

### 3. CYLINDERS

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

### 4. BATTERY

- Remove battery if tractor is not used regularly during winter months. Store in cool, dry place (above 50°F). NOTE: DO NOT STORE BATTERY DIRECTLY ON CONCRETE SURFACE.
- Re-charge each month if necessary. NOTE: BATTERIES NOT IN USE FOR SEVERAL MONTHS AND NOT KEPT FULLY CHARGED, PRODUCE SULPHUR DEPOSITS ON PLATES WHICH CANNOT BE REMOVED BY RECHARGING.

### 5. GENERAL CLEANING

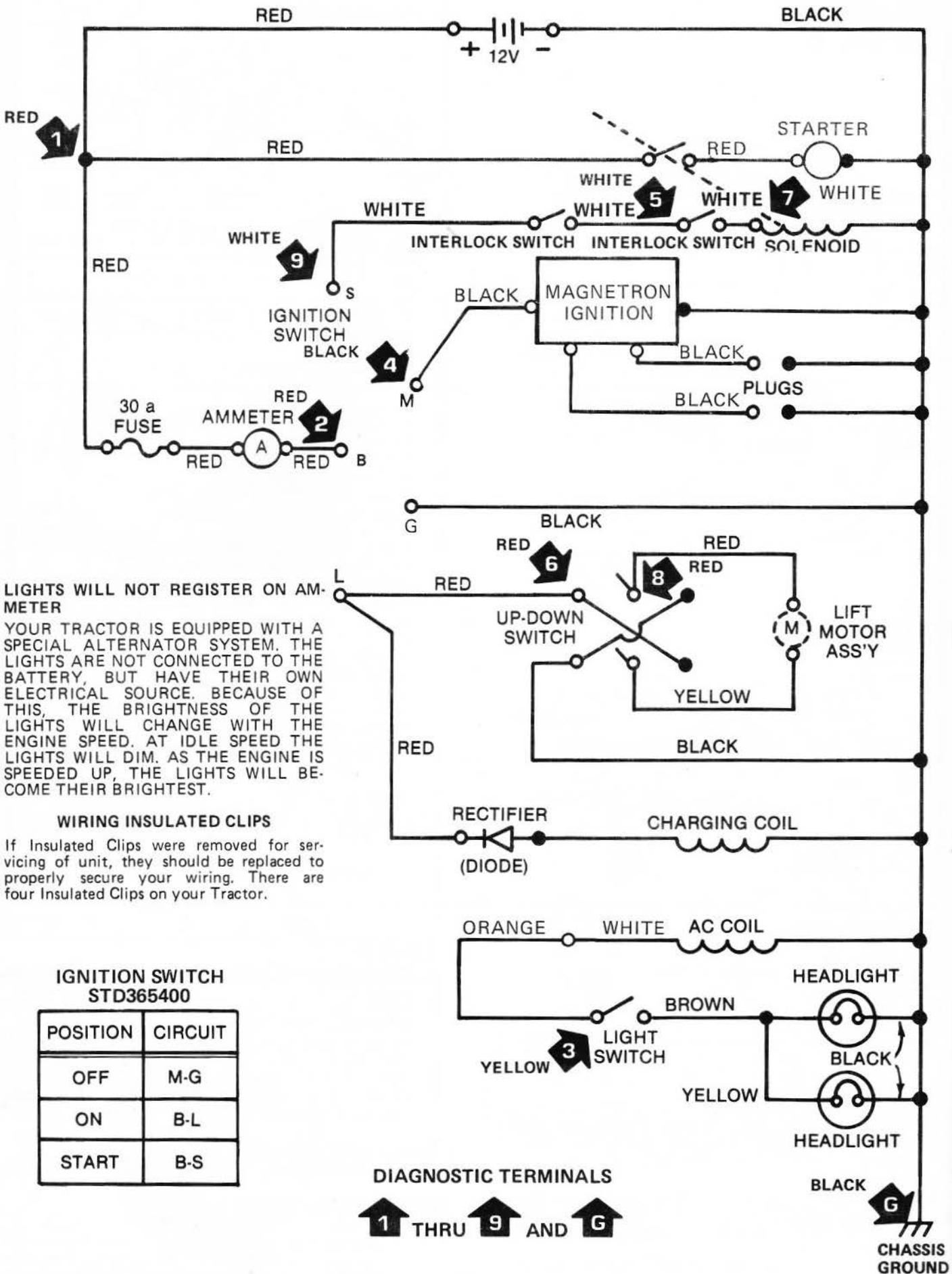
Clean engine, battery, finish etc. of all foreign matter.

### 6. STORE IN A CLEAN AND DRY AREA.

Sears, Roebuck and Co. reserves the right to make any changes in design or improvements without imposing any obligation to install the same upon its items heretofore manufactured.

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721



LIGHTS WILL NOT REGISTER ON AM-METER

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS 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

If Insulated Clips were removed for servicing of unit, they should be replaced to properly secure your wiring. There are four Insulated Clips on your Tractor.

### IGNITION SWITCH STD365400

POSITION	CIRCUIT
OFF	M-G
ON	B-L
START	B-S

### DIAGNOSTIC TERMINALS

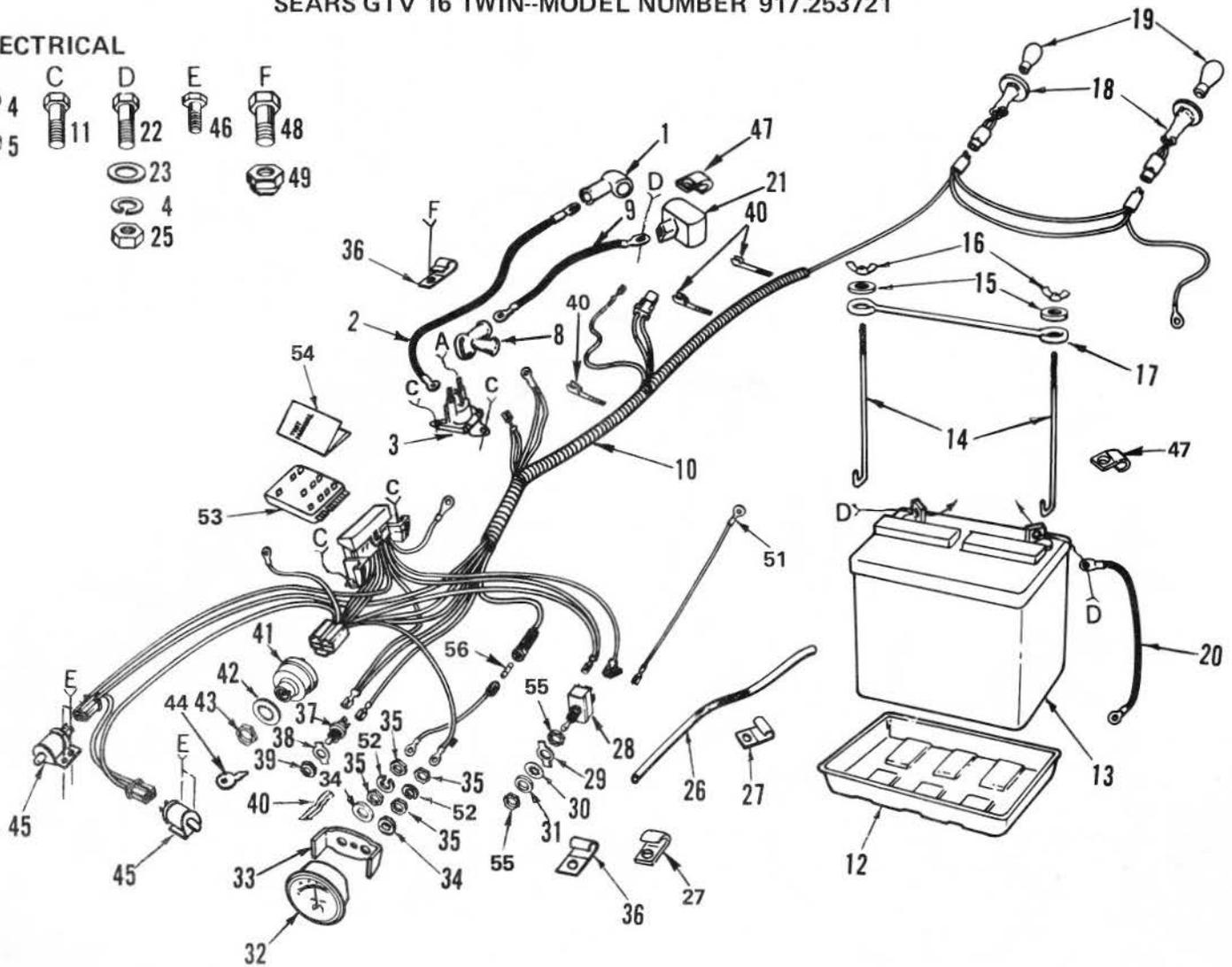
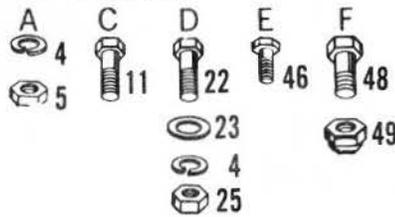
1 THRU 9 AND G

CHASSIS GROUND

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721

## ELECTRICAL

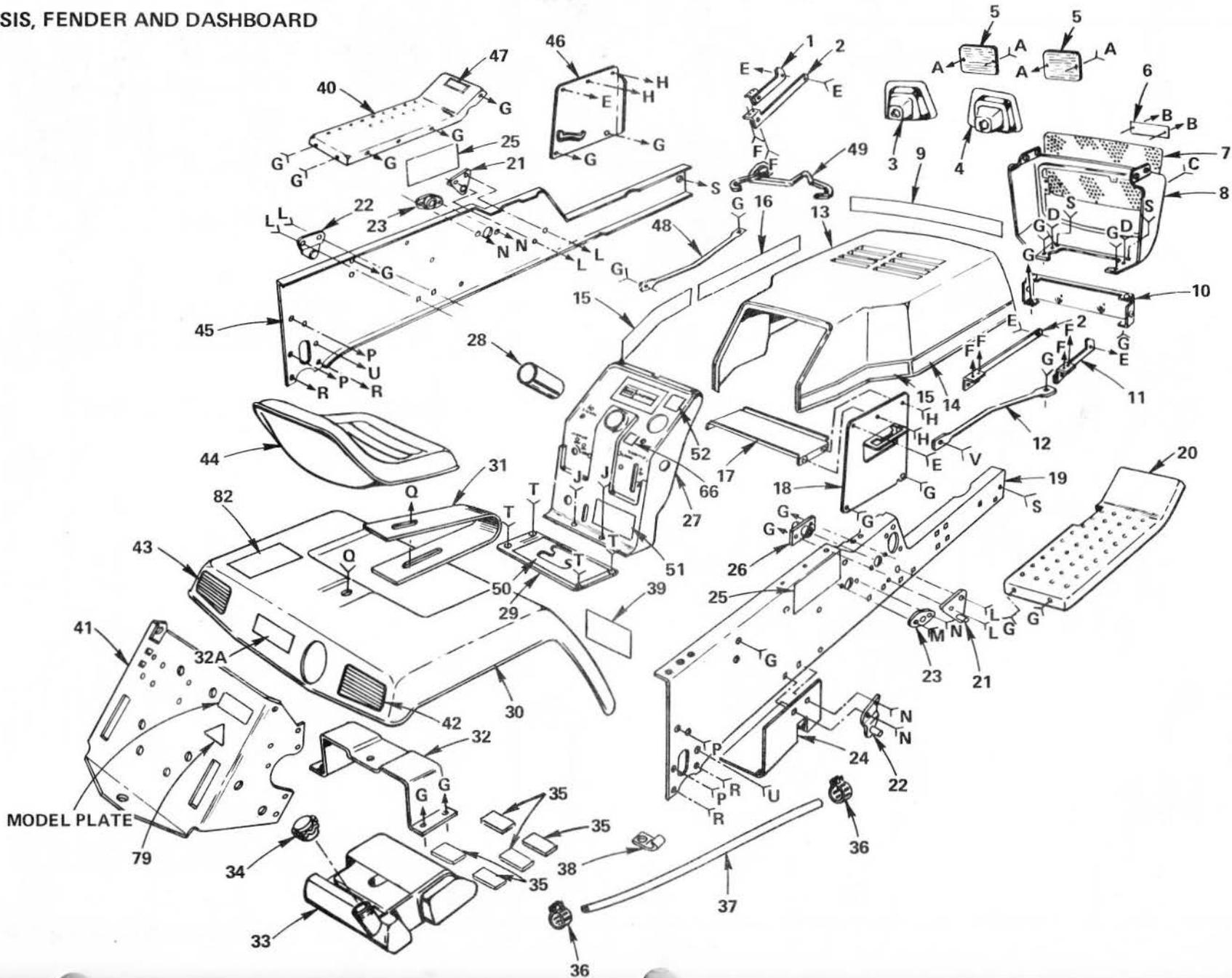


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	719J	Cover - Terminal	30	7319R	Lockwasher - Int. Tooth
2	5115J	Cable - Starter	31	1615P	Washer 15/32 x 3/4 x 16 Ga.
3	2008J	Solenoid	32	9433R	Ammeter
4	STD551125	* Lockwasher 1/4	33	6009J	Bracket, Ammeter
5	STD541225	* Nut - Hex Jam 1/4 - 20 UNC	34	6951J	Washer 7/32 x 1/2 x 18 Ga.
8	51J	Cover - Terminal	35	6953J	Nut, No. 10 - 32 UNF
9	4799J	Cable - Battery	36	5320R	Clip - Insulated
10	7038J	Harness - Ignition & Diagnostic	37	6497J	Switch - Light
11	5584P	Screw - Hex Washer Hd. Cutting 1/4 - 20 UNC x 3/4	38	7682R	Plate - On - Off
12	8855R	Tray - Battery	39	7320R	Nut - Hex Face
13	8859R	Battery	40	7192J	Tie - Cable
14	70456	Bolt - Battery	41	4406R	Switch - Ignition
15	1507P	Washer 9/32 x 3/4 x 16 Ga.	42	1411P	Lockwasher - Int. Tooth
16	STD541625	* Wing - Nut 1/4 - 20 UNC	43	3258J	Nut - Flat
17	67187	Rod - Battery	44	STD365410	Key
18	4151J	Socket - Light	45	7755R	Switch - Interlock
19	4152J	Bulb - Light	46	5642P	Screw - Hex Hd. Self Tapping 10 - 24 x 3/8 Type T
20	4207J	Cable - Battery	47	4171R	Clip - Insulated
21	225J	Cover - Terminal	48	STD523707	* Bolt - Hex, Finished 3/8 - 16 x 3/4
22	STD522507	* Bolt - Hex Hd. 1/4 - 20 UNC x 3/4	49	545P	Nut 3/8 - 16 Crownlock
23	STD551025	* Washer 9/32 x 5/8 x 16 Ga.	51	9698R	Wire
25	STD541025	* Nut - Hex 1/4 - 20 UNC	52	6952J	Lockwasher No. 10
26	6709J	Tube 1/2 I.D. x 5/8 O.D. x 38	53	677A823	Diagnostic Terminal Adapter (optional) (order Test Manual Key No. 54)
27	2751R	Clip - Insulated	54	8102J	Test Manual (optional)
28	8984R	Switch - Lift	55	566P	Hex Nut, Steel 7/16 - 32 NS - 2A
29	9349R	Plate - Up - Down	56	6347R	Fuse
			---	7193J	Tag - Warning
			---	7870J	Owners Manual

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721

## CHASSIS, FENDER AND DASHBOARD



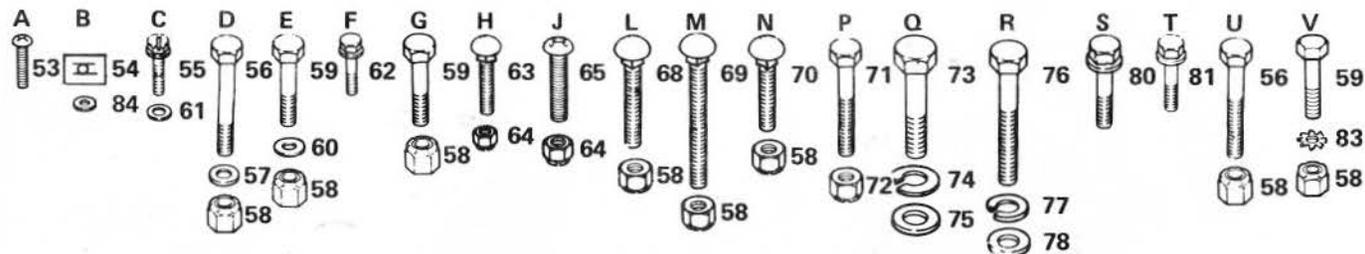
# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721

## CHASSIS, FENDER AND DASHBOARD

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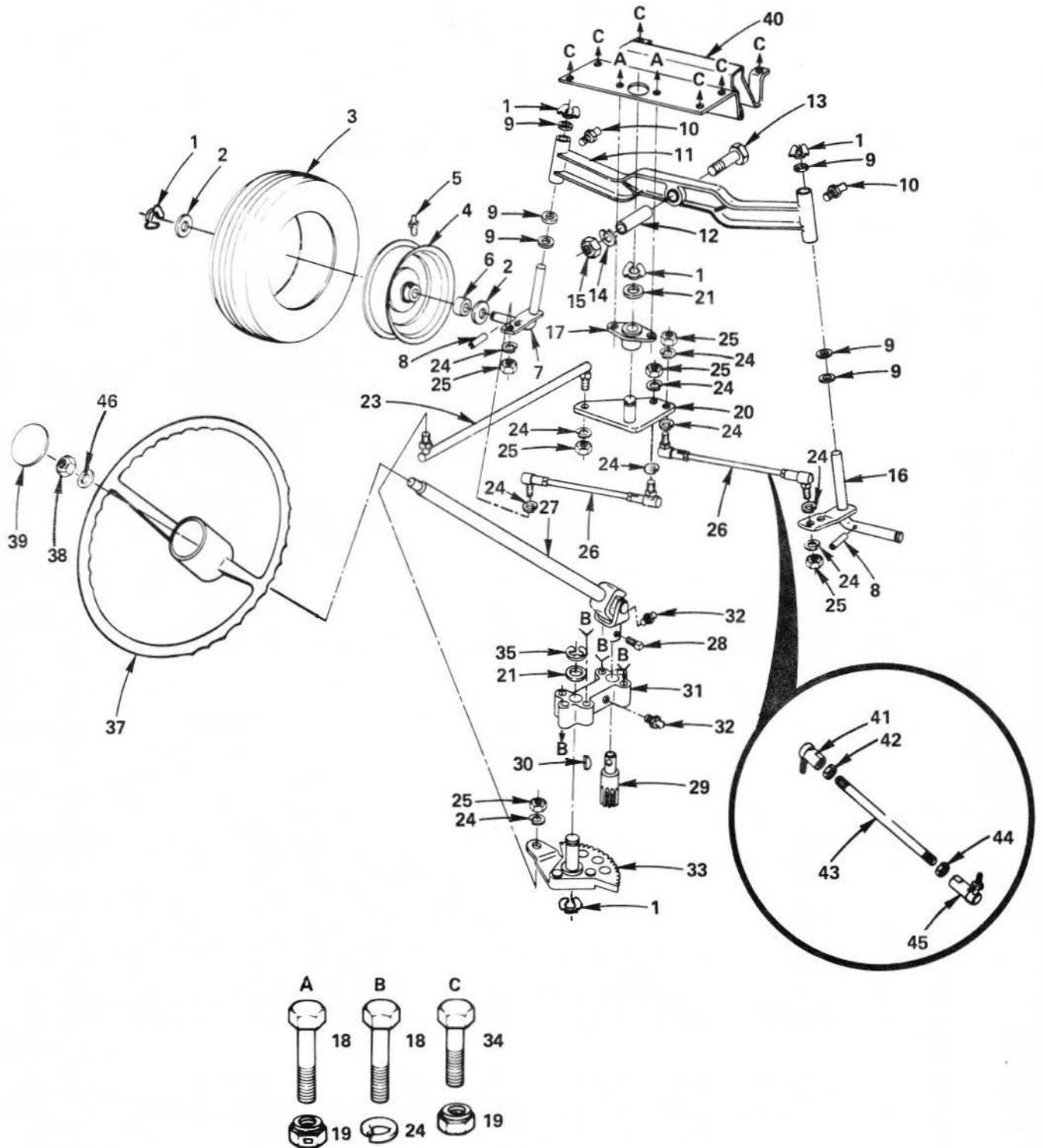
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	677A875	Strap Assembly - Hinge	35	6431J	Pad - Spacer	63	67P	Bolt - Round Hd. Square Neck 5/16 - 18 UNC x 3/4
2	677A432	Strap Assembly - Hinge	36	6999R	Clamp - Hose	64	575P	Nut - Crownlock 5/16 - 18 UNC
3	678H109	Bezel - L.H.	37	5277J	Fuel Line	65	3419P	Screw - Truss Hd. Cross Recess 5/16 - 18 UNC x 3/4
4	678H110	Bezel - R.H.	38	2751R	Clip - Fuel Line	66	7065J	Decal, Power Lift
5	3600J	Lens - Headlamp	39	4910J	Decal - Caution	68	STD533707	*Bolt - Round Hd. Square Neck 3/8 - 16 UNC x 3/4 Gr. 5
6	4110J	Logo - Grill	40	677H787	Foot Rest - L.H.	69	STD533712	*Bolt - Rd. Hd. Sq. Nk. 3/8 - 16 UNC x 1 - 1/4 Gr. 5
7	677H938	Screen - Grill	41	678H469	Drawbar Assembly	70	28P	Bolt - Rd. Hd. Sq. Nk. 3/8 - 16 UNC x 1 Gr. 5
8	677H937	Grill	42	4903J	Decal - Reflector R.H.	71	3034P	Bolt - Hex, Finished 7/16 - 14 UNC x 1
9	7091J	Decal - Strip Hood Front	43	4902J	Decal - Reflector L.H.	72	603P	Nut - Crownlock 7/16 - 14 UNC
10	677H993	Bracket - Frame, Front	44	1496J	Seat	73	STD525010	*Bolt - Hex Finished 1/2 - 13 UNC x 1 Gr. 5
11	677A876	Strap Assembly - Hinge	45	677H990	Rail - Frame L.H.	74	STD551150	*Lockwasher 1/2
12	678H266	Brace - Grill - R.H.	46	677H929	Panel - Side L.H.	75	1545P	Washer 17/32 x 1 x 16 Ga.
13	678H108	Hood	47	4900J	Decal Clutch/Brake	76	3039P	Bolt - Hex Finished 7/16 - 14 UNC x 2 - 1/2
14	7092J	Decal - Strip Hood R.H.	48	678H267	Brace - Grill L.H.	77	STD551143	*Lockwasher 7/16
15	4904J	Decal - Strip Hood	49	5592J	Guard Belt, Main Dr.	78	1615P	Washer 15/32 x 3/4 x 16 Ga.
16	7090J	Decal - Strip Hood L.H.	50	5339J	Decal - Shift Plate	79	5224J	Safety Standard Sticker
17	677H930	Support - Battery	51	7157J	Decal - Instruction	80	5624P	Screw - Hex Washer Hd. Thread Form 3/8 - 16 UNC x 3/4
18	678H49	Panel - Side R.H.	52	4908J	Decal Clutch Attachment	81	5606P	Screw - Hex Washer Hd. Tapping 1/4 - 20 x 1/2
19	677H989	Rail - Frame R.H.	53	5632P	Screw - Cross Recess Pan Hd. No. 8 - 18 Hi - Lo x 1/2	82	5360J	Label - Fact Warranty
20	678H33	Foot Rest - R.H.	54	6661J	Fastener - Push On	83	1402P	Lockwasher 3/8 Ext. Tooth
21	678H447	Bracket Ass'y. - Hanger, Front	55	5638P	Screw - Hex Slotted Hd. Parkerized Self Tapping Type AB No. 12 x 1/2	84	1677P	Washer 7/32 x 5/8 x 18 Ga.
22	678H340	Bracket Ass'y. - Hanger, Rear	56	STD523710	*Bolt - Hex Finished 3/8 - 16 x 1	*STANDARD HARDWARE--PURCHASE LOCALLY		
23	4180J	Bushing - Shaft, Lift	57	1614P	Washer 13/32 x 7/8 x 13 Ga.			
24	6553J	Keeper - Belt Secondary	58	545P	Nut - Crownlock 3/8 - 16 UNC			
25	5358J	Decal - Feature	59	STD523707	*Bolt - Hex, Finished 3/8 - 16 UNC x 3/4			
26	678H444	Bracket Ass'y. - Bushing	60	STD551037	*Washer 13/32 x 13/16 x 16 Ga.			
27	6905J	Dash	61	6058J	Washer 1/4 x 5/8 x 16 Ga.			
28	4182J	Sleeve - Steering	62	5631P	Screw - Finished Hex Washer Head No. 13 - 16 Hi - Lo x 5/8			
29	677H941	Cover, Shift - Gate						
30	677H786	Fender						
31	677H779	Spring - Seat						
32	677H778	Bracket Ass'y. - Fender						
32A	7178J	Decal, Caution						
33	3616J	Tank - Fuel						
34	4609J	Cap - Fuel						



# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721

## STEERING



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# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721

## STEERING

KEY NO.	PART NO.	DESCRIPTION
1	5022P	Klip Ring
2	1600P	Washer 25/32 x 1 - 1/8 x 16 Ga.
3	3641J	Tire - 16 x 5.50
4	9541R	Front Wheel (Inc. Key No. 6, 2 each)
5	6856M	Grease Fitting
6	9040H	Flanged Bearing
7	678H436	Spindle Assembly, L.H.
8	9530R	Pin - Groove, 3/16 x 1 - 1/4
9	6266H	Race - Thrust
10	6855M	Fitting - Grease
11	677H999	Axle - Front
12	5298J	Tube - Pivot, Axle
13	3439P	Bolt - Hex Fin. 5/8 - 11 UNC x 2 - 3/4 Gr. 5
14	STD551162	* Lockwasher 5/8
15	STD541062	* Nut - Hex 5/8 - 11 UNC
16	678H2	Spindle Assembly, R.H.
17	5292J	Bushing, Bellcrank
18	STD523710	* Bolt - Hex, Finished 3/8 - 16 UNC x 1
19	545P	Nut - Crownlock 3/8 - 16 UNC
20	677H998	Bellcrank Assembly
21	1616P	Washer 29/32 x 1 - 1/4 x 16 Ga.
23	5293J	Drag Link
24	STD551137	* Lockwasher 3/8
25	STD541137	* Nut - Hex 3/8 - 24 UNF
26	673A15	Tie Rod
27	678H449	U-Joint Assembly
28	4552P	Screw - Set Hex Forged Socket 3/8 - 16 UNC x 1/2
29	3945J	Pinion - Steering
30	9858M1	Key - Woodruff 3/16 x 5/8
31	8839R	Bracket - Support, Steering
32	6842M	Fitting - Grease
33	677H997	Sector Assembly
34	STD523707	* Bolt - Hex Finished 3/8 - 16 UNC x 3/4
35	5017P	E - Ring Truarc 5133 - 87
37	6784J	Wheel - Steering
38	STD541350	* Nut - Hex Jam 1/2 - 20 UNF
39	3649J	Insert - Wheel, Steering
40	677H992	Bracket - Axle
41	8922R	Tie Rod Joint L.H. Thread
42	547P	Nut Hex Jam 3/8 - 24 UNF
43	8923R	Tie Rod
44	STD541337	* Nut Hex Jam 3/8 - 24 UNF
45	8921R	Tie Rod Joint R.H. Thread
46	1545P	Washer 17/32 x 1 x 16 Ga.

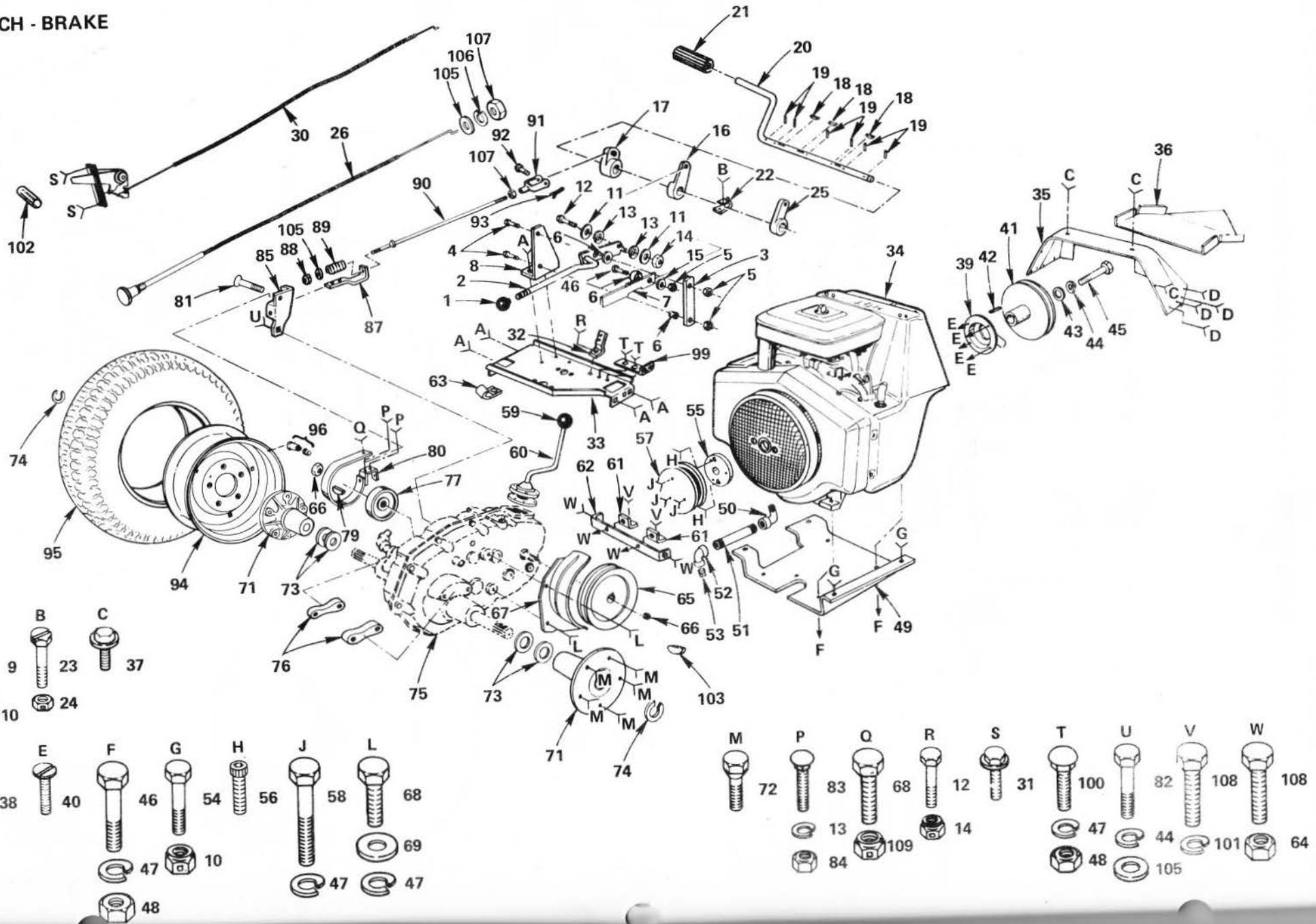
\*STANDARD HARDWARE--PURCHASE LOCALLY

# REPAIR PARTS

SEARS GTV 16 TWIN-MODEL NUMBER 917.253721

## CLUTCH - BRAKE

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# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721

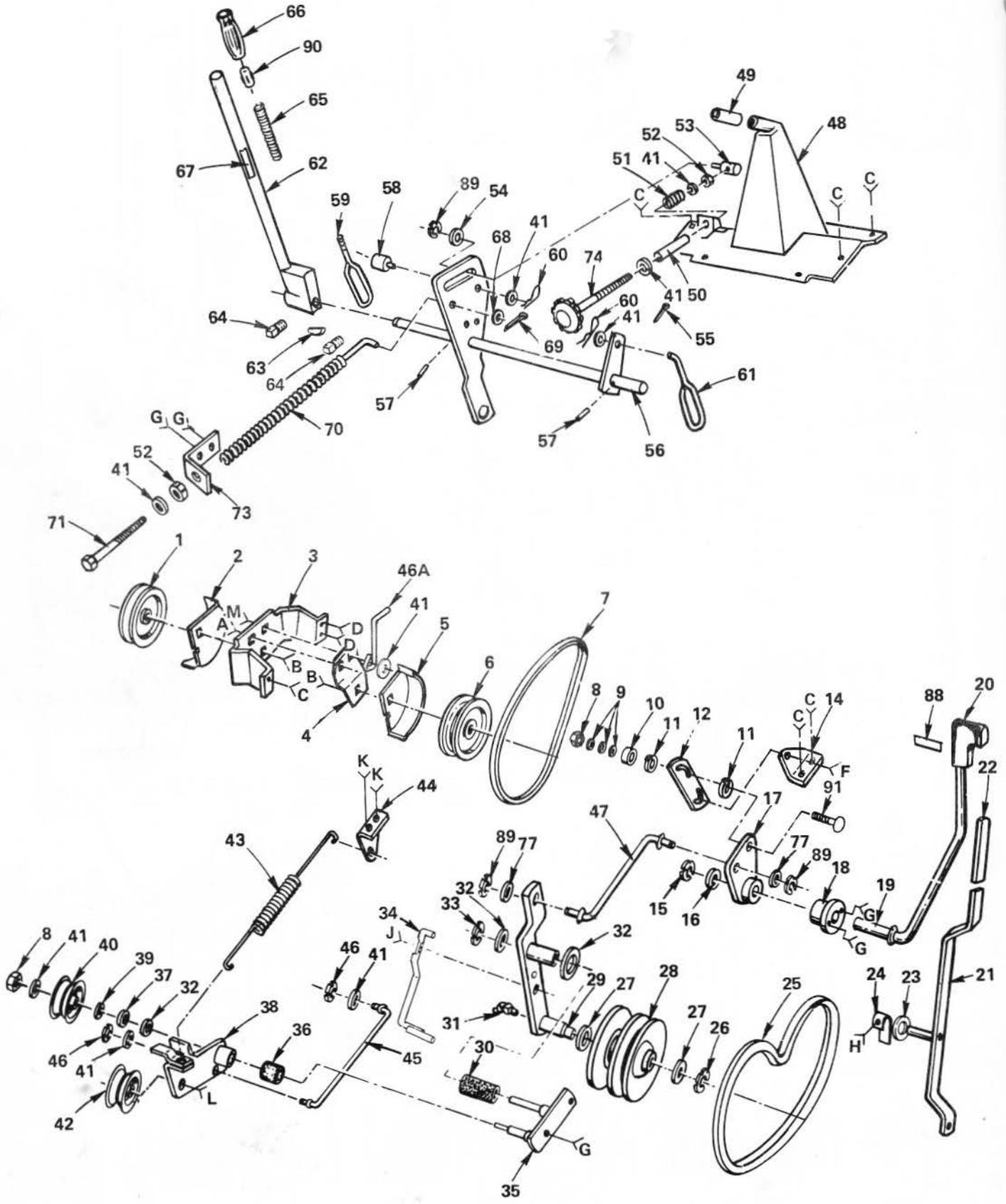
## CLUTCH - BRAKE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	8871R	Knob - Control	41	678H311	Pulley - Drive Attachment	79	2228M	Woodruff Key
2	677A853	Latch Assembly, Parking Brake	42	9396E	Key - 1/4 x 2	80	673A211	Band Assembly, Brake
3	678H9	Guide - Lockbar	43	1514P	Washer 13/32 x 1 - 9/16 x 7 Ga.	81	3164P	Screw - Machine Undercut Flat Hd. 3/8 - 16 UNC x 3/4
4	STD523110	* Bolt - Hex Finished 5/16 - 18 UNC x 1	44	STD551137	* Lockwasher - 3/8	82	3022P	Bolt - Hex, Finished 3/8 - 16 UNC x 7/8
5	575P	Nut - Crownlock 5/16 - 18 UNC	45	3392P	Bolt - Hex, Finished 3/8 - 24 UNF x 1 - 3/4	83	89P	Bolt - Rd. Hd. Sq. Neck 1/4 - 20 UNC x 5/8 Gr. 5
6	8908R	Bushing - Lever, Brake	46	STD523112	* Bolt - Hex, Finished 5/16 - 18 UNC x 1 - 1/4 Gr. 5	84	STD541025	* Nut - Hex 1/4 - 20 UNC
7	678H271	Lockbar - Brake Parking	47	STD551131	* Lockwasher - 5/16	85	677A637	Bracket Assembly, Brake
8	678H446	Bracket - Brake Parking	48	STD541031	* Nut - Hex 5/16 - 18 UNC	87	7229J	Guide - Rod, Brake
9	STD533707	* Bolt - Round Hd. Short Sq. Neck 3/8 - 16 UNC x 3/4	49	677H918	Base - Engine	88	511P	Nut - Hex Centerlock 3/8 - 24 UNF
10	545P	Nut - Crownlock 3/8 - 16 UNC	50	4033P	Elbow - 1/4 NPT Street	89	7241J	Spring - Compression
11	1585P	Washer 9/32 x 1 - 1/4 x 16 Ga.	51	4006P	Nipple - 1/4 NPT x 2 - 1/2	90	5308J	Rod - Brake
12	STD522507	* Bolt - Hex Finished 1/4 - 20 UNC x 3/4	52	4025P	Elbow - 1/4 NPT 90°	91	5101J	Clevis
13	STD551125	* Lockwasher 1/4	53	4001P	Plug - 1/4 NPT Square Head	92	5102J	Pin - Clevis
14	574P	Nut - Crownlock 1/4 - 20 UNC	54	STD523707	* Bolt - Hex, Finished 3/8 - 16 UNC x 3/4	93	STD560907	* Pin - Cotter 3/32 x 3/4
15	1509P	Washer 5/16 x 3/4 x 16 Ga.	55	5259J	Adapter - Pulley	94	9528R	Wheel - Rear
16	678H5	Arm - Brake, Parking	56	3446P	Screw - Hex Socket Flat Hd. Cap 3/8 - 16 UNC x 1	95	3640J	Tire - Rear 23 x 8.50 - 12
17	678H4	Arm - Brake	57	678H309	Pulley - Ground Drive	96	795R	Tire Valve
18	2228M	Key - Woodruff 3/16 x 3/4	58	STD523115	* Bolt - Hex, Finished 5/16 - 18 UNC x 1 - 1/2 Gr. 5	99	5349J	Bracket - Interlock Switch
19	5142H	Pin - Roll 3/16 x 1 - 1/4	59	9439M	Knob - Control	100	67P	Bolt - Carriage Sq. Neck 5/16 - 18 UNC x 3/4 Gr. 5
20	678H392	Shaft - Pedal, Foot	60	633A109	Gear Shift Lever Ass'y.	101	STD551143	* Lockwasher 7/16
21	8883R	Cover - Pedal, Foot	61	5239J	Support - Transaxle	102	61159	Knob - Throttle Control
22	5304J	Actuator - Switch, Interlock	62	5240J	Bracket - Transaxle	103	9858M1	Woodruff Key
23	STD511010	* Screw - Hex Fin. No. 10 - 24 UNC x 1	63	4171R	Clip - Insulated	105	STD551037	* Washer 13/32 x 13/16 x 16 Ga.
24	STD541410	* Nut - Lock No. 10 - 24 UNC	64	603P	Nut - Crownlock 7/16 - 14 UNC	106	1402P	Lockwasher 3/8 - Ext. Tooth
25	678H6	Arm - Clutch	65	5241J	Pulley - Transaxle	107	STD541137	* Nut - Fin. Hex 3/8 - 24 UNF
26	6894J	Control - Choke	66	9204H	Locknut - 1/2 - 20 UNF	108	3034P	Bolt - Fin. Hex 7/16 - 14 UNC x 1
30	5695J	Control - Throttle	67	7424J	Guard - Belt, Transaxle	109	1685H	Centerlock Nut 5/16 - 18
31	5606P	Screw - Hex Washer Hd. Thrd. Cutting 1/4 - 20 UNC x 1/2	68	STD523107	* Bolt - Hex, Finished 5/16 - 18 UNC x 3/4 Gr. 5	*STANDARD HARDWARE--PURCHASE LOCALLY		
32	7171J	Bracket - Switch, Interlock	69	1599P	Washer 11/32 x 3/4 x 16 Ga.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>OPTIONAL EQUIPMENT</b>                      Spark Arrester Muffler <span style="float: right;">677A936</span> </div>		
33	677H996	Bracket - Support, Steering	71	634A692	Rear Wheel Hub & Bushing			
34	7871J	Engine - 16 H.P. Twin	72	1304H	Bolt - Hub			
35	677H924	Shroud Assembly - Upper	73	7563R	Washer - Thrust			
36	677H925	Shroud - Heat, Lower	74	5845R	Klip Ring			
37	5514P	Screw - Hex Washer Hd. 1/4 - 20 UNC x 1/2 Tapping	75	633A110	Transaxle - 3 Speed			
38	5614P	Screw - Hex Washer Hd. No. 10 - 16 x 1/2 Tapping	76	4186J	Spacer - Transaxle			
39	677A608	Tube Assembly - Exhaust	77	214J	Drum Brake			
40	3452P	Screw - Pan Hd. Cross Recess Tapping No. 8 - 16 x 1/2 AB						

# REPAIR PARTS

SEARS GTV 16 TWIN-MODEL NUMBER 917.253721

## VARIDRIVE SYSTEM



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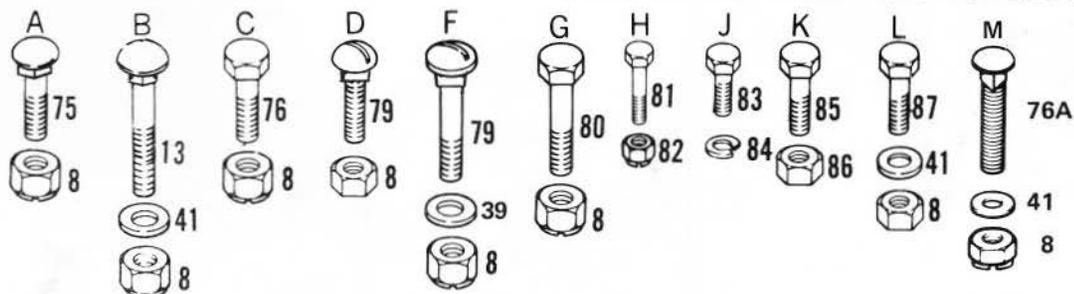
# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721

## VARIDRIVE SYSTEM

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4200J	Pulley - Idler	47	5324J	Link - Control, Variator
2	5253J	Guide - Belt, V-Idler	48	678H16	Support Assembly, Dash - Steering
3	677H917	Bracket, V-Idler	49	9038R	Bearing
4	5255J	Bracket - Idler, Flat	50	7222J	Spacer - Split
5	5256J	Guide - Belt, Flat Idler	51	2876H	Spring
6	2083R	Idler - Flat	52	STD541237	* Nut - Hex Jam 3/8 - 16 UNC
7	7074J	V-Belt, Primary	53	678H450	Trunion - Stop Depth
8	545P	Nut - Crownlock 3/8 - 16 UNC	54	1615P	Washer 15/32 x 3/4 x 16 Ga.
9	2263R	Spring Washer	55	STD560907	* Pin - Cotter 3/32 x 3/4
10	1624P	Washer 3/8 x 1 - 1/2 x 5 Ga.	56	678H394	Shaft Assembly - Lift
11	5315J	Disc - Friction	57	5142H	Pin - Roll 3/16 x 1/4
12	7021J	Plate - Stop, Variator	58	6102J	Trunion - Link, Lift
13	97P	Round Head, Sq. Nk. Bolt 3/8 - 16 UNC x 1 - 3/4	59	7112J	Link - Lift, Mower L.H.
14	678H393	Bracket - Stop, Variator	60	4939M	Pin - Retaining, Spring
15	5036P	Klip Ring	61	7014J	Link - Lift, Mower R.H.
16	1664P	Washer 19/32 x 1 - 3/4 x 16 Ga.	62	678H470	Lever Assembly - Hand
17	5661J	Arm - Control, Variator	63	8330H	Key - Woodruff 1/4 x 1
18	5314J	Bushing - Control, Lever	64	4551P	Set Screw - Hex Socket Forged Headless 3/8 - 16 UNC x 3/8
19	5316J	Lever - Control, Varidrive	65	2876H	Spring
20	4198J	Knob - Control, Varidrive	66	2895H	Grip - Handle
21	678H297	Shaft Assembly - Lever, Control	67	4901J	Decal - Attachment Lift
22	4617J	Grip - Handle	68	1558P	Washer 13/32 x 5/8 x 16 Ga.
23	1588P	Washer 17/32 x 3/4 x 16 Ga.	69	2505P	Pin - Cotter 1/8 x 3/4
24	5348J	Actuator, Interlock	70	678H395	Spring Assembly - Assist, Lift
25	5262J	V-Belt, Secondary - <i>8.99/6-17</i>	71	5328J	Bolt - Adjust Spring, Assist
26	5025P	Klip Ring No. T5304-50	73	678H445	Bracket - Spring, Assist
27	206J	Washer - Hardened	74	6533J	Rod - Lift Adjustment
28	7930J	Sheave - Variator	75	STD533707	* Bolt - Rd. Hd. Short Square Neck 3/8 - 16 UNC x 3/4 Gr. 5
29	677H986	Arm Assembly - Variator	76	STD523707	* Bolt - Hex, Finished 3/8 - 16 UNC x 3/4
30	5986J	Seal, Dirt	76A	STD533710	* Bolt - Rd. Hd. Sq. Neck Carriage 3/8 - 16 x 1 Gr. 5
31	6855M	Grease Fitting	77	1676P	Washer 13/32 x 13/16 x 20 Ga.
32	1527P	Washer 21/32 x 7/8 x 16 Ga.	79	28P	Bolt - Rd. Hd. Sq. Nk. 3/8 - 16 UNC x 1
33	5023P	Klip Ring No. T5304-62	80	STD523710	* Bolt - Hex, Finished 3/8 - 16 UNC x 1
34	677A930	Keeper - Belt Assy.	81	3444P	Screw - Hex Fin. No. 10 - 24 x 1
35	678H443	Bracket Assembly - Supp. Variator	82	STD541410	* Nut - No. 10 - 24
36	5465J	Seal, Dirt	83	STD522505	* Bolt Hex Fin. 1/4 - 20 x 1/2
37	3445J	Seal - Felt	84	STD551125	* Lockwasher 1/4
38	677A883	Arm Assembly, Idler Clutch	85	STD523107	* Bolt - Hex Finished 5/16 - 18 x 3/4
39	1637P	Washer 13/32 x 1 - 1/4 x 12 Ga.	86	575P	Nut Crownlock 5/16 - 18 UNC
40	4859J	Idler - Flat	87	STD523717	* Bolt - Hex, Finished 3/8 - 16 UNC x 1 - 3/4
41	STD551037	* Washer 13/32 x 13/16 x 16 Ga.	88	1582J	Decal - Control Indicator
42	4860J	Idler - Flat	89	5024P	Klip Ring
43	5641J	Spring - Clutch	90	4303J	Plunger - Lever, Hand
44	678H448	Bracket - Spring	91	STD533715	* Rd. Hd. Sq. Nk. Bolt 3/8 - 16 x 1 - 1/2 Gr. 5
45	5640J	Link - Clutch			
46	5031P	Klip Ring			
46A	7195J	Belt Retainer			

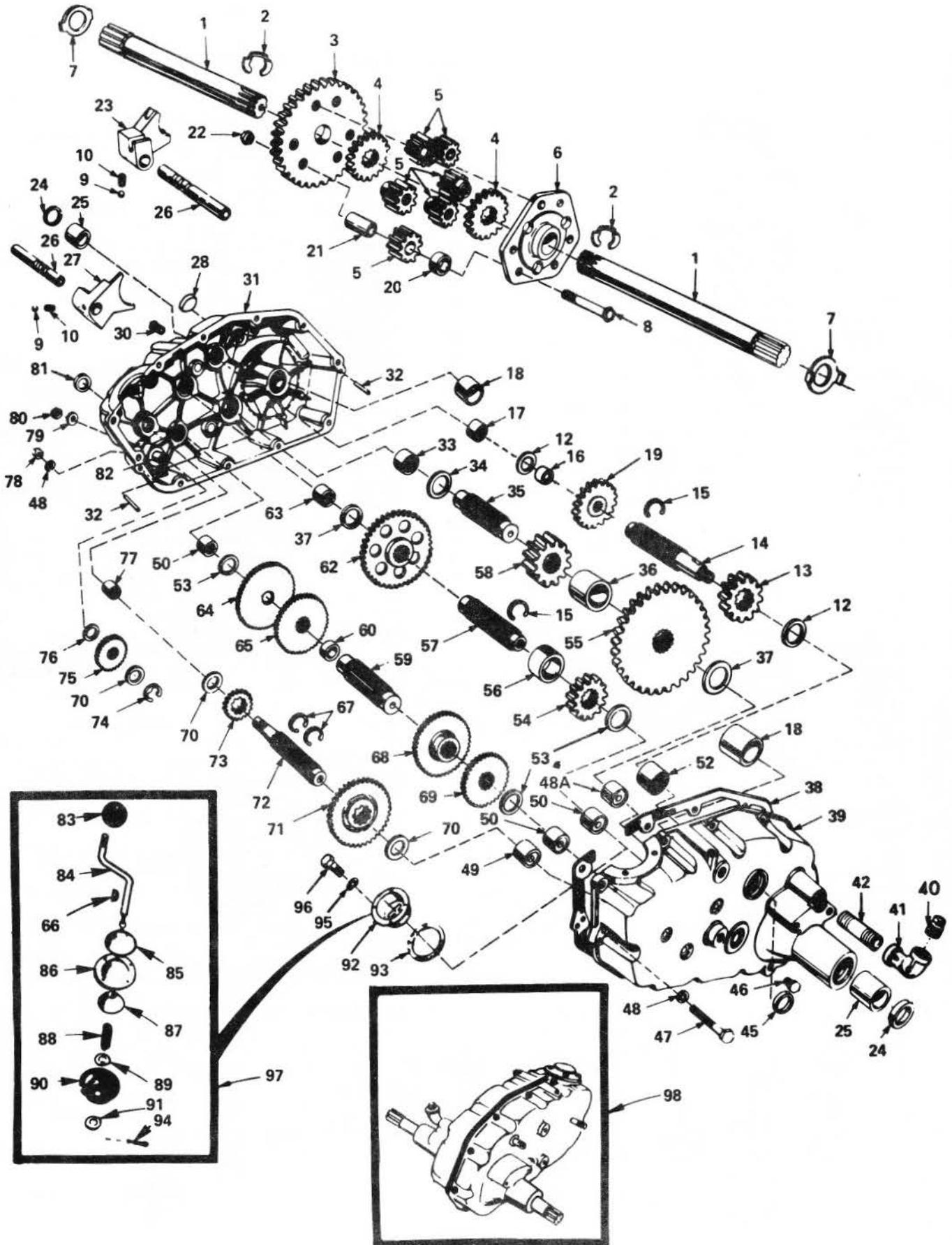
\*STANDARD HARDWARE--PURCHASE LOCALLY



# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721

## TRANSAXLE



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# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721

## TRANSAXLE

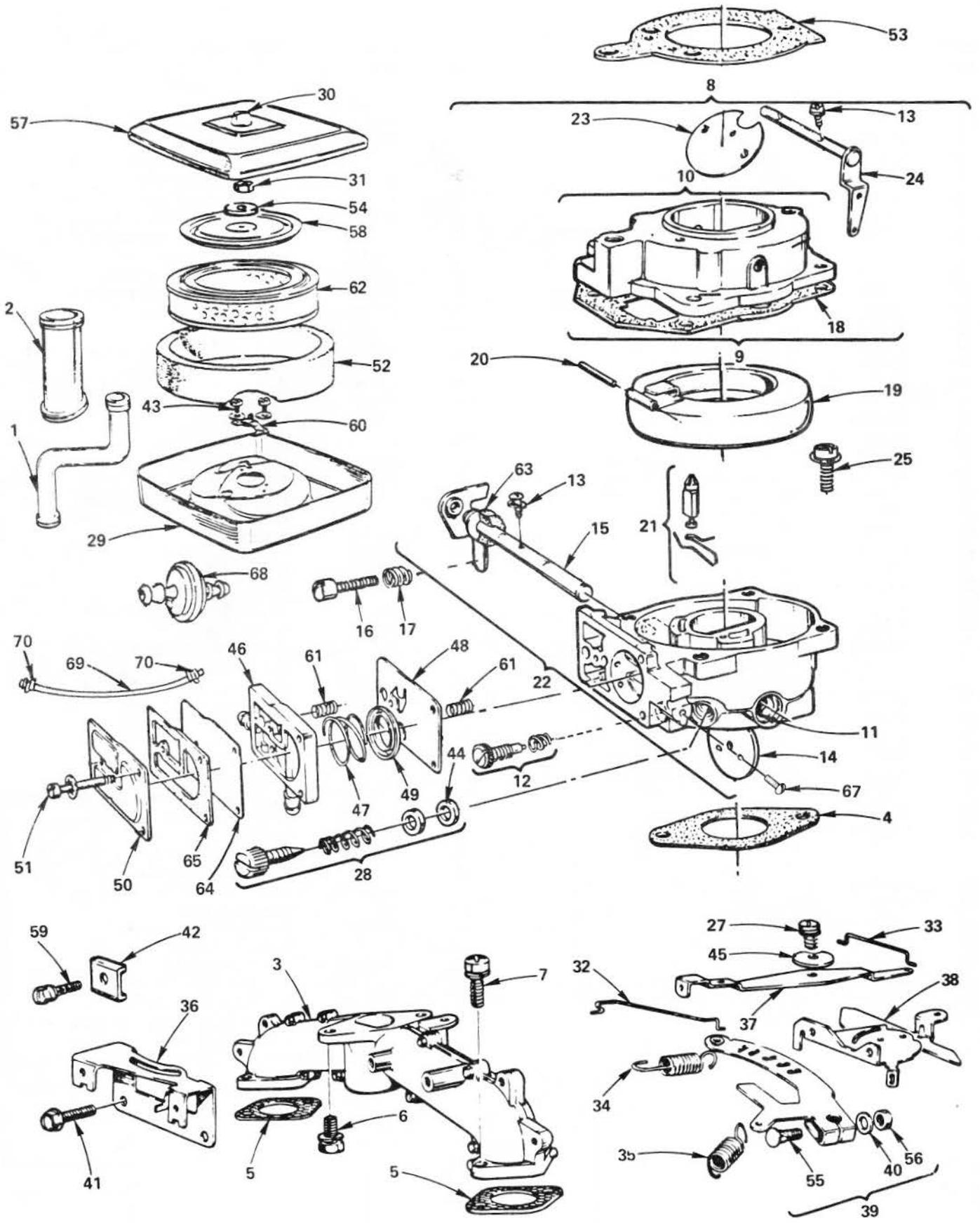
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axle Shaft	49	4895H	Needle Bearing
2	5845R	Retaining Ring	50	4222R	Needle Bearing
3	4199R	Final Drive Gear	52	8119M	Needle Bearing
4	4216R	Differential Gear	53	4220R	Thrust Bearing Race
5	4215R	Differential Pinion	54	4209R	3rd Reduction Pinion
6	4217R	Differential Carrier	55	4213R	4th Reduction Gear
7	6256H	Axle Thrust Washer	56	5383J	3rd Reduction Pinion Spacer
8	3056P	Hex Bolt 3/8 - 24 UNF x 3 - 1/4 (1" Thread Length)	57	4195R	2nd Reduction Gear Shaft
9	7392M	Steel Ball	58	4214R	Final Drive Pinion
10	6272H	Spring-Shift Fork Detent	59	4194R	1st Reduction Gear Shaft
12	6266H	Thrust Bearing Race	60	7528R	1st Reduction Shaft Spacer
13	4212R	4th Reduction Pinion	62	4207R	2nd Reduction Gear
14	4196R	3rd Reduction Gear Shaft	63	7398H	Needle Bearing
15	6276H	Retaining Ring	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluster
16	216J	3rd Reduction gear Spacer	65	4204R	Reverse Gear
17	8118M	Needle Bearing	66	2898J	Key Hi-Pro 1/8 x 17/32
18	8740H1	Sintered Iron Bearing	67	4926H	Retaining Ring
19	5385J	3rd Reduction Gear	68	4205R	Intermediate Speed Gear
20	4218R	Differential Pinion Spacer	69	4206R	High Speed Gear
21	6252H1	Differential Pinion Bushing	70	1370H	Thrust Bearing Race
22	7810H	Gripco Centerlock Nut 3/8 - 24 UNF	71	633A69	Intermediate and High Speed Cluster Pinion
23	4986R	Shift Fork - L.H.	72	4193R	Input Shaft
24	7393R	Oil Seal	73	4201R	Low Speed Pinion
25	992R1	Sintered Iron Bearing	74	STD581062	*E-Ring
26	6216H	Shift Fork Shaft	75	1153R	Reverse Idler Gear
27	6262H	Shift Fork - R.H.	76	7392H	Reverse Idler Thrust Washer
28	217J	Expansion Plug	77	5529H	Needle Bearing
30	5855H	Pressure Relief Valve	78	STD541031	*Hex Nut 5/16 - 18 UNC
31	633A65	Gearcase and Bearings - R.H. (Inc. Key No's. 17, 18, 25, 33, 50, 63, 76, 77, and 82)	79	1167R	Sealing Washer
32	6277H	Dowel Pin	80	541P	Hex Jam Nut 7/16 - 20 UNF
33	4225R	Needle Bearing	81	6270H	Oil Seal
34	7396H	Thrust Bearing Race	82	7384H	Reverse Idler Shaft
35	4198R	4th Reduction Gear Shaft	83	6364H	Control Knob
36	4200R	4th Reduction Gear Spacer	84	5384J	Gear Shift Lever
37	7395H	Thrust Bearing Race	85	2978J	Gear Shift Cap
38	6275H	Gearcase Gasket	86	633A85	Gear Shift Ball Cover and pin
39	633A64	Gearcase and Bearings-L.H. (Inc. Key No's. 18, 25, 49, 50 and, 52)	87	8739H1	Shift Lever Guide
40	4002P	Pipe Plug 1/2 - 14 N.P.T.	88	4924H	Spring
41	4015P	Elbow 90°, 1/2 - 14 N.P.T.	89	STD551043	*Washer 15/32 x 15/16 x 16 Ga.
42	4014P	Std. Pipe Nipple 1/2 - 14 N.P.T. x 3	90	8105R	Shift Mechanism Seal
45	6271H	Oil Seal	91	1569P	Washer 9/16 x 15/16 x 11 Ga.
46	4001P	Pipe Plug 1/4 - 18 N.P.T.	92	75J	Gear Shift Gate
47	STD523115	*Hex Bolt 5/16 - 18 x 1 - 1/2 Grade 5	93	6274H	Shift Ball Cover Gasket
48	1007P	Lockwasher 5/16 Extra Heavy	94	2505P	*Cotter 1/8 x 3/4
48A	1529R	Needle Bearing	95	STD551131	*Lockwasher 5/16
			96	STD523108	*Hex Bolt 5/16 - 18 UNC x 7/8
			97	633A109	Gear Shift Lever Ass'y.
			98	633A110	Transaxle Assembly Less Brake Drum & Shift Lever Ass'y.

\*STANDARD HARDWARE--PURCHASE LOCALLY

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0660-01

## AIR CLEANER--CARBURETOR GROUP



another free manual from [www.searstractormanuals.com](http://www.searstractormanuals.com)

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0660-01

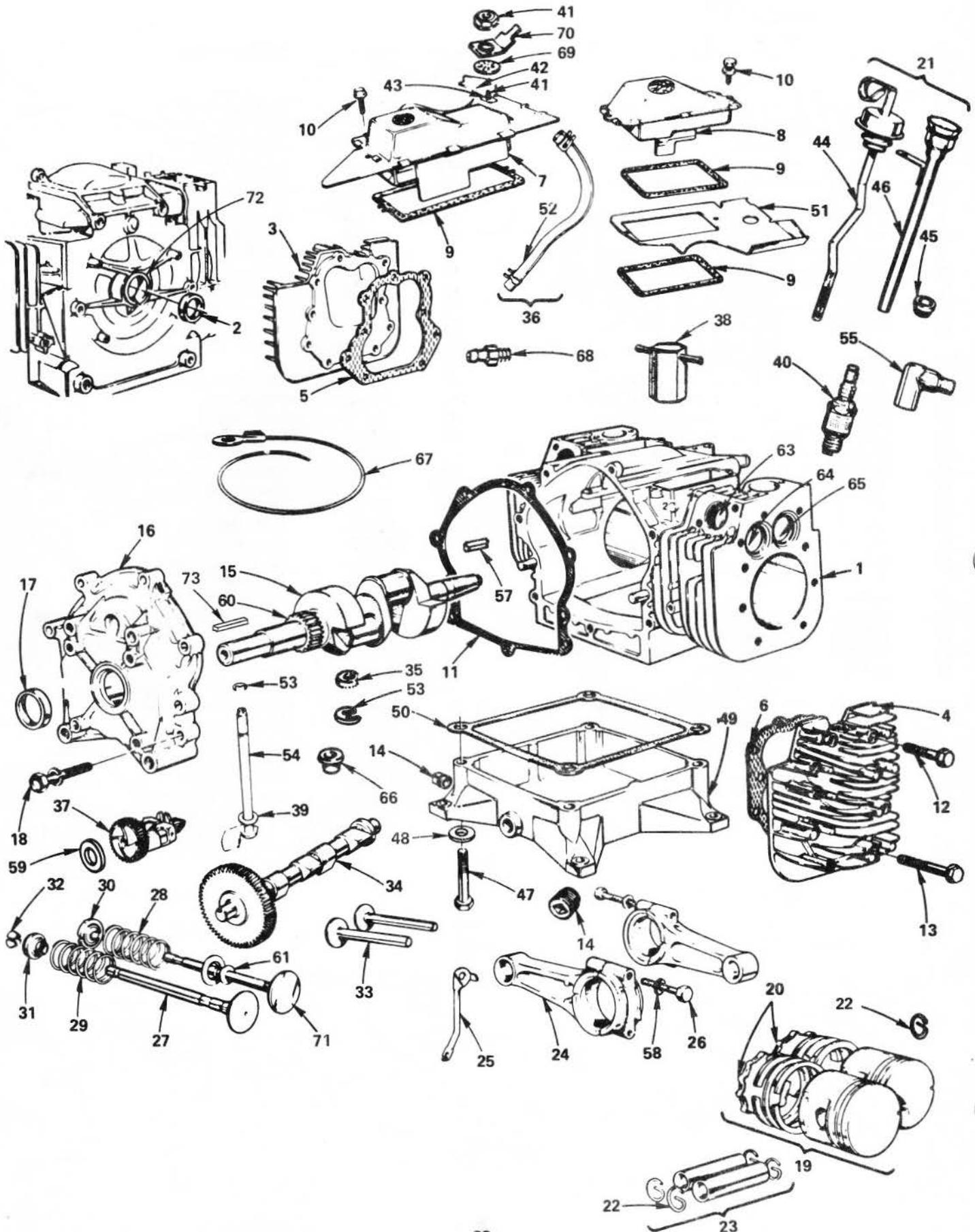
## AIR CLEANER--CARBURETOR GROUP

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	280185	Tube - Breather	32	261444	Link - Governor
2	280198	Tube - Intake	33	261531	Link - Speed Control
3	392970	Manifold Ass'y. - Intake	34	261446	Spring - Governor
4	271412	+*Gasket - Carb. Mtg.	35	261563	Spring - Governed Idle
5	270884	*Gasket - Intake Manifold Mtg.	36	222807	Bracket - Speed Control
6	93414	Screw - Carb. Mtg. Sem	37	222828	Lever - Speed Control
7	93208	Screw - Intake Manifold Mtg. Sem	38	394324	Plate Ass'y. Governor Control
8	394338	Carburetor Assy.	39	393346	Lever Ass'y. - Governor
9	393297	Body Ass'y. - Upper Carb.	40	222289	Washer
10	394505	Body - Upper Carb.	41	93868	Screw - Sem
11	231209	Bushing - Throttle Shaft	42	221535	Clamp - Casing
12	292681	+Valve Ass'y. - Carb. Idle	43	93893	Screw - Sem
13	93499	Screw - Throttle and Choke Valve Mtg. Sem	44	65978	+Packing - Needle Valve
14	221939	Valve - Throttle	45	66432	Washer - Plain
15	392672	Shaft and Lever - Throttle	46	280197	Body - Pump
16	91920	Screw - Mach. Fil. Hd. 8 - 32 x 5/8	47	261395	+Spring - Pump
17	26157	Spring - Throttle Adj.	48	270988	+Diaphragm
18	271008	+*Gasket - Carburetor Body	49	221377	+Cap - Spring
19	298514	Float - Carburetor	50	222615	Cover - Diaphragm
20	230896	+Pin - Float Hinge	51	93829	Screw - Diaphragm Cover
21	299096	+Valve - Fuel Inlet	52	271271	Element - Air Cleaner
22	394352	Body - Lower Carb.	53	271411	+Gasket - Air Cleaner
23	222010	Valve - Choke	54	271180	Washer
24	392673	Shaft and Lever - Choke	55	93853	Bolt - Governor Lever
25	93496	Screw - Hex Head Sem 10/32 x 5/8	56	92278	Nut - Hex 10 - 24
27	93892	Screw - Sem	57	223001	Cover - Air Cleaner
28	394033	+Valve Assembly - Needle	58	222835	Cartridge Plate - Air Cleaner
29	222752	Body - Air Cleaner	59	93496	Screw - Sem
30	212292	Knob - Air Cleaner	60	392643	Mounting Strap Ass'y. - Air Cleaner
31	93715	Nut - Hex	61	261358	+Spring
			62	394018	Cartridge - Air Cleaner
			63	271013	+Washer - Choke Shaft
			64	270989	+Diaphragm - Damping
			65	271025	+Gasket - Carb. Pump
			66	93892	Screw - Sem
			67	93897	Screw - Casing Clamp
			68	394358	Filter - Fuel (In Fuel Pipe)
			69	299146	Line - Fuel (28")
			70	93053	Clamp - Fuel Pipe
			---	394501	Gasket Set (Includes Parts Marked *)
			---	394502	Carburetor Overhaul Kit (Includes Parts Marked +)

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0660-01

## CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP



# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0660-01

## CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	394900	Cylinder Assembly	35	271316	Foam Seal - Governor Shaft
2	391086	Seal - Oil	36	393244	Pipe - Fuel
3	212461	Head - Cylinder No. 1	37	394348	Gear - Governor
4	212462	Head - Cylinder No. 2	38	89838	Spark Plug Wrench
5	270984	*Gasket - Cylinder Head No. 1	39	220863	Washer - Gov. Crank (inside)
6	270983	*Gasket - Cylinder Head No. 2	40	394539	Plug - Spark (Resistor) (2 - 3/8 High - 60 M.M.)
7	393243	Breather Assembly No. 1	41	90576	Nut - Hex 8 - 32
8	393153	Breather Assembly No. 2	42	231174	Terminal
9	27803	*Gasket - Valve Cover	43	280180	Grommet - Insulator
10	93394	Screw - Sem	44	394014	Cap and Dipstick - Oil Filler
11	270982	*Gasket - Crankcase Cover 1/64" Thick	45	68838	Seal - Filler Tube
11	271145	*Gasket - Crankcase Cover .005" Thick	46	392782	Tube - Oil Filler
11	271146	*Gasket - Crankcase Cover .009" Thick	47	93783	Screw - Hex Hd.
12	93113	Screw - Cylinder Head (2 - 15/16" long)	48	92268	Washer
13	93111	Screw - Cylinder Head (1 - 15/16" long)	49	394391	Base - Engine
14	91084	Plug - Oil Drain	50	270981	*Gasket - Engine Base
15	392976	Crankshaft	51	222700	Baffle - Air
16	394420	Cover Assembly - Crankcase	52	93053	Clamp - Fuel Pipe
17	291675	Seal - Oil	53	93851	Retainer - E-Ring
18	93847	Screw - Crankcase Cover Mtg. Sem	54	394396	Crank - Governor
19	394955	Piston Assembly - Standard	55	66538	Elbow - Spark Plug
19	394956	Piston Assembly - .010" O.S.	56	91540	Key - Pulley
19	394957	Piston Assembly - .020" O.S.	57	61760	Key - Flywheel
19	394958	Piston Assembly - .030" O.S.	58	220863	Washer
20	394959	Ring Set - Piston - Standard	59	222773	Washer - Thrust
20	394960	Ring Set - Piston - .010" O.S.	60	261363	Gear - Timing
20	394961	Ring Set - Piston - .020" O.S.	61	393606	Seal Ass'y. and Retainer
20	394962	Ring Set - Piston - .030" O.S.	63	230655	+Guide - Exhaust Valve
21	394023	Dipstick and Tube Assembly	64	210940	+Seat - Exhaust Valve (Standard)
22	260924	Lock - Piston Pin	65	261463	+Seat - Intake Valve (Standard)
23	299691	Pin Assembly - Piston - Standard	66	261559	Lower Bushing - Gov.
23	391286	Pin Assembly - Piston - .005" O.S.	67	391115	Wire - Ground
24	394306	Rod Assembly - Connecting	68	230318	Connector - Fuel Pipe
25	222480	Dipper - Connecting Rod	69	92791	Washer - Lock Shakeproof
26	92909	Screw - Connecting Rod	70	93722	Terminal - Spade
27	390420	Valve - Exhaust	71	261528	Valve - Intake
28	65906	Spring - Intake Valve			Uses: 393606 Seal Ass'y. and Retainer (Key No. 61).
29	26828	Spring - Exhaust Valve			
30	221596	Retainer - Intake Valve	72	261623	+ Bearing - Cylinder
31	292260	Rotocoil - Exhaust			
32	93630	Retainer - Exhaust Valve Rotocoil			
33	261368	Tappet - Valve			
34	212415	Gear - Cam			

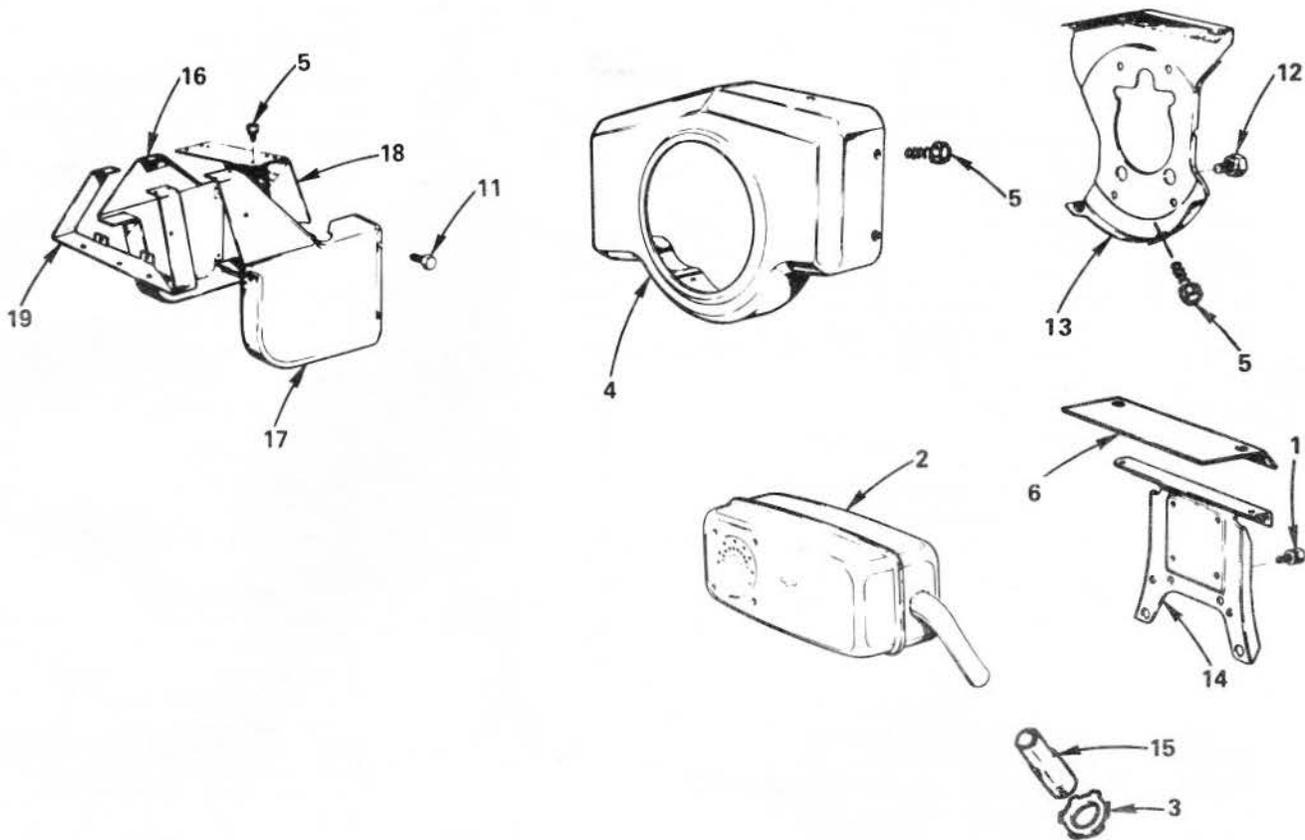
\*Inc. in Gasket Set - 394501

+Special Tools required to install - See Repair Instructions Manual.

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721  
 ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0660-01

## MUFFLER, AIR GUIDE AND HOUSING GROUP



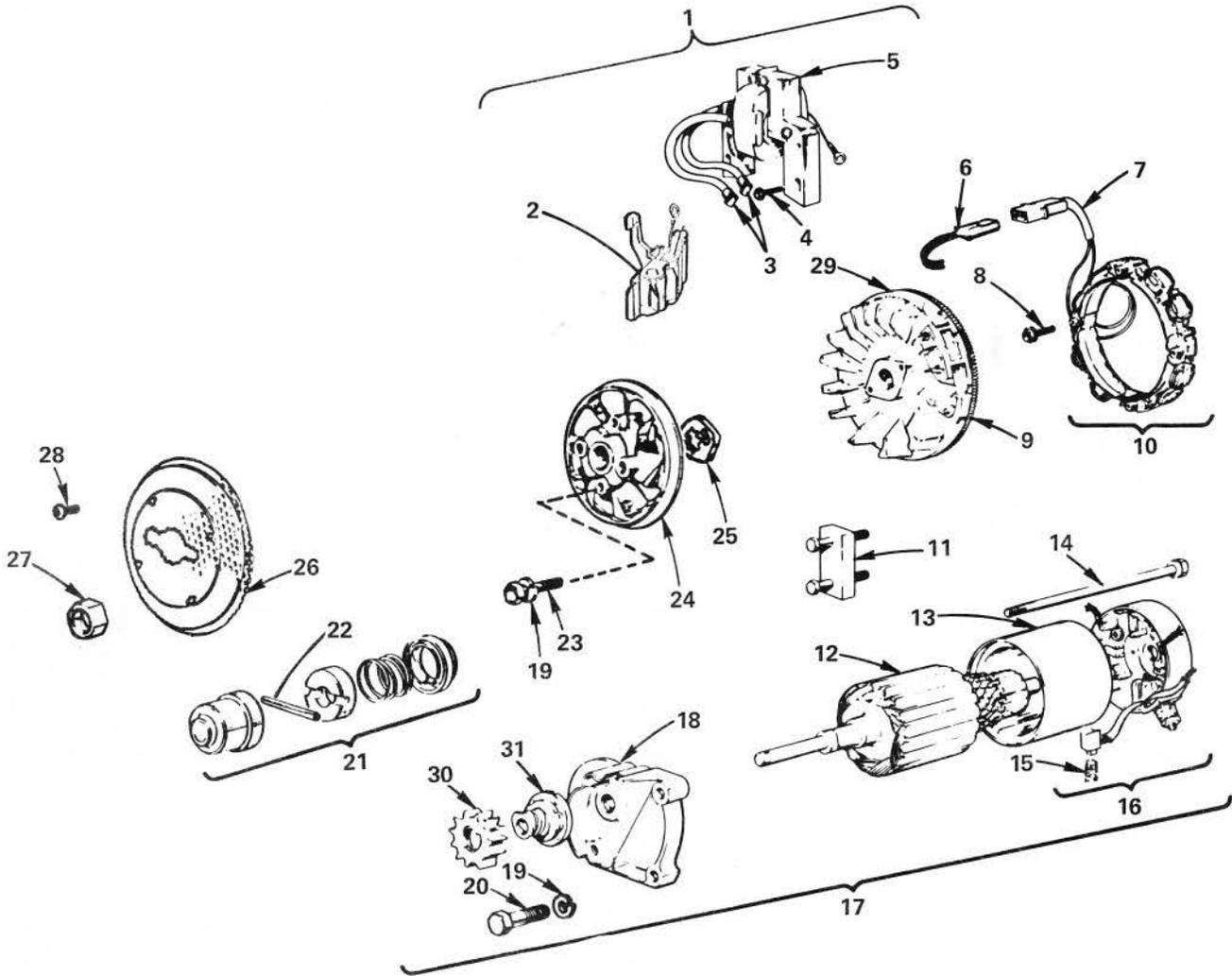
KEY NO.	PART NO.	DESCRIPTION
1	93343	Screw - Sems
2	394200	Muffler - Exhaust
3	261409	Locknut - Muffler
4	392681	Housing - Blower
5	93158	Screw - Sem
6	222981	Shield - Heat
11	93876	Screw - Sem
12	93777	Screw - Hex Hd. (Back Plate to Cylinder)

KEY NO.	PART NO.	DESCRIPTION
13	392934	Back Plate Ass'y.
14	222776	Bracket - Muffler
15	231162	Connector - Muffler
16	392991	Cover Ass'y. - Air
17	392992	Cover Ass'y. - Air
18	393025	Rear Insert Ass'y.
19	222775	Frame - Air Guide

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253721  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0660-01

## STARTER MOTOR GROUP



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	394737	Armature Group	15	391705	Brush Set
2	394970	Trigger Coil Ass'y - Magnatron Ignition	16	394674	Commutator End Cap Ass'y.
3	221798	Terminal - Ignition Cable	17	393017	Motor - Starting
4	93381	Screw - Armature Mtg. Sem	18	394429	Drive End Cap Ass'y. - Starter
5	394988	Armature Assembly	19	90366	Lockwasher
6	393362	Alternator Harness Ass'y.	20	91162	Screw - Hex Hd. 5/16 - 18 x 1 - 1/2
7	393456	Diode and Connector Ass'y.	21	393254	Kit - Pinion Spring
8	93621	Screw - Sem	22	93754	Roll Pin
9	391362	Gear - Flywheel Ring (Inc. Mtg. Parts)	23	92674	Screw - Hex Hd.
10	393474	Stator - Alternator	24	212418	Fan - Booster
11	19203	Puller - Flywheel (Optional Equipment)	25	22906	Lock - Flywheel Nut
12	390837	Armature Assembly	26	223008	Screw - Rotating
13	392744	Housing Assembly	27	231247	Nut - Hex
14	93933	Thru Bolt	28	93808	Screw - Sem
			29	392956	Flywheel and Ring Gear Ass'y. - Magneto
			30	280104	Gear - Starter
			31	391135	Clutch Ass'y. - Starter

# SERVICE NOTES

# SERVICE NOTES

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**Sears**

**OWNERS  
MANUAL**

**MODEL NO.  
917.253721**

**HOW TO ORDER  
REPAIR PARTS**

# **GTV 16 TWIN VARIDRIVE GARDEN TRACTOR**

The Model Number will be found on the Model Plate attached to the top right side of Drawbar. Always mention the Model Number when requesting service or parts for your Garden Tractor.

All parts listed herein may be ordered from any SEARS ROEBUCK AND CO. retail or catalog store.

**WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:**

- THE PART NUMBER
- THE PART DESCRIPTION
- THE MODEL NUMBER
- THE NAME OF MERCHANDISE

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for "expedited handling".

# SEARS GTV BELT GUIDE AND BELT KIT 100833X

TO REPLACE SECONDARY BELT, REFER TO "BELT REPLACEMENT" IN YOUR OWNERS MANUAL.

1. Remove Hex Nut (A), Flat Washer (B), Flat Idler (C) (Fig. 1) and Flat Washer (D) (Fig. 2). Discard Hex Nut (A) and Flat Washer (B).



BEFORE REASSEMBLING FLAT IDLER (C) BE SURE WASHER (E) IS OVER SHOULDER ON SHAFT OF VARIATOR SHAFT ASSEMBLY (F). FELT SEAL (G) MUST BE POSITIONED AROUND WASHER (E) (FIG. 2 - INSET).

2. Refer to Fig. 3. Reassemble Flat Idler (C) with Hub to R.H. side of tractor. Place Belt (H) on Flat Idler (C). Install Washer (D) and Belt Guide (J). Secure with new Hex Nut (K) (shipped with kit). NOTE: ASSEMBLE NEW BELT GUIDE (J) IN A STRAIGHT UP AND DOWN POSITION (FIG. 3).

CONTINUE TO FOLLOW INSTRUCTIONS IN YOUR OWNERS MANUAL UNDER "BELT REPLACEMENT".

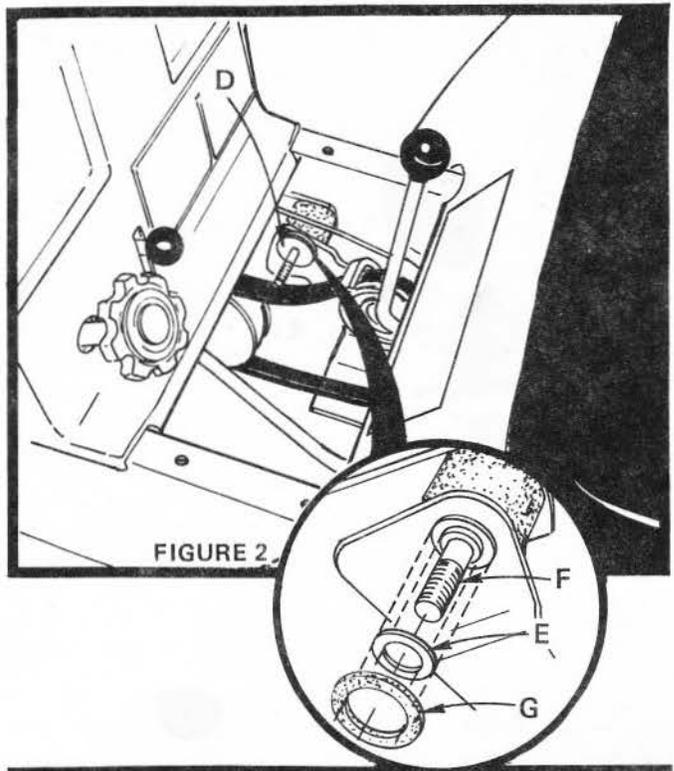


FIGURE 2

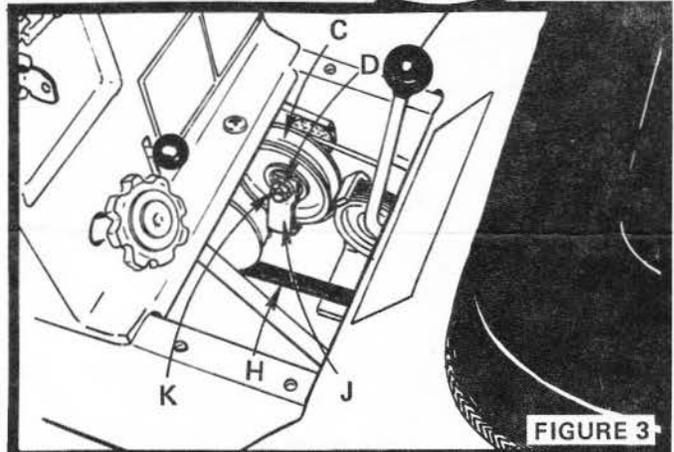


FIGURE 3

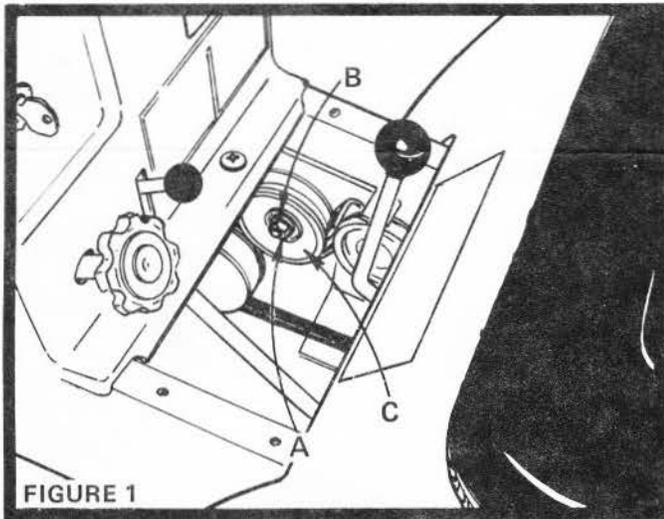


FIGURE 1

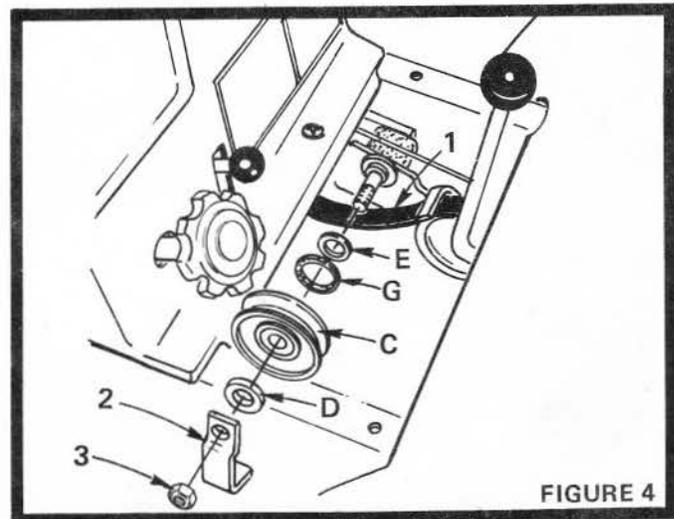


FIGURE 4

## PARTS LIST (PARTS SHIPPED WITH THIS KIT - FIG. 4).

KEY NO.	PART NO.	DESCRIPTION
1	5262J	V-Belt, Secondary
2	100775L	Guide - Belt
3	5394H	Nut - Hex Centerlock 3/8 - 16
---	100834X	Sheet - Instruction

108429X

SAVE THIS SHEET FOR FUTURE REFERENCE