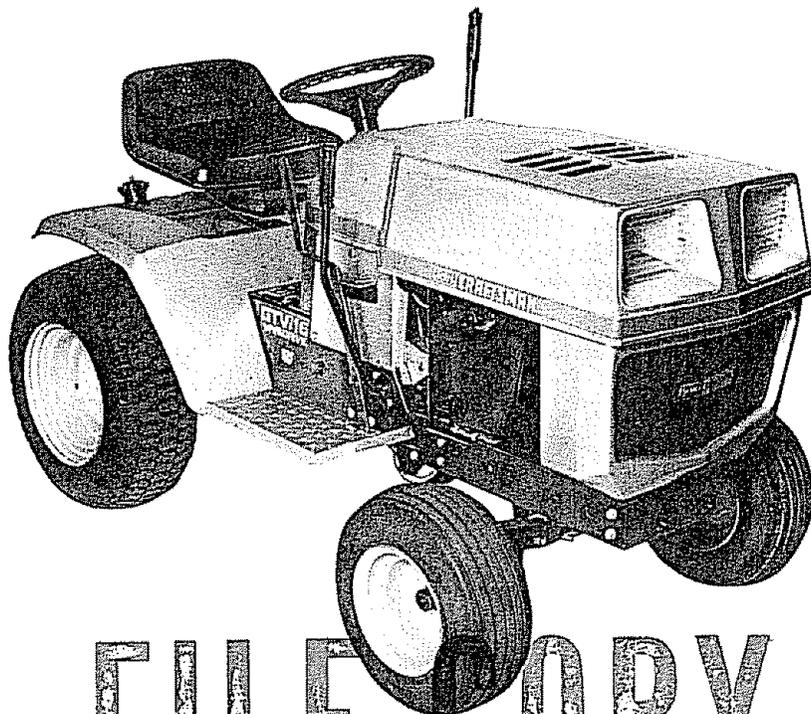


**Sears**

**OWNERS  
MANUAL**

**MODEL NO.  
917.253724**

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



**FILE COPY**

**FOR OFFICE USE**

**DO NOT RELEASE**

**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 ATTACH-  
ED 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 and Parking Brake Lever--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 or without having read the owners manual.
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 the 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 1st gear to negotiate the slope without stopping. To reduce speed, move Vari-drive Control Lever rearward to slower 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. Do not clean product while engine is running.
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; 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. 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 674A380.

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

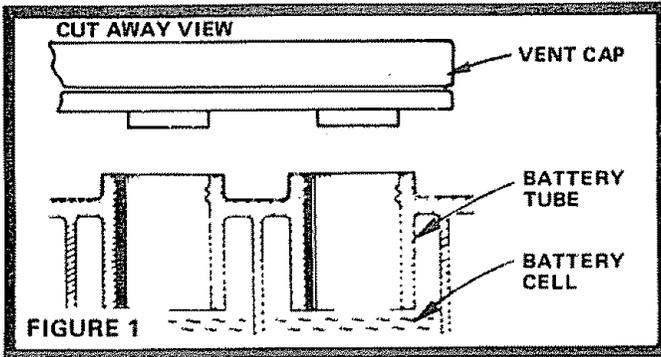


FIGURE 1

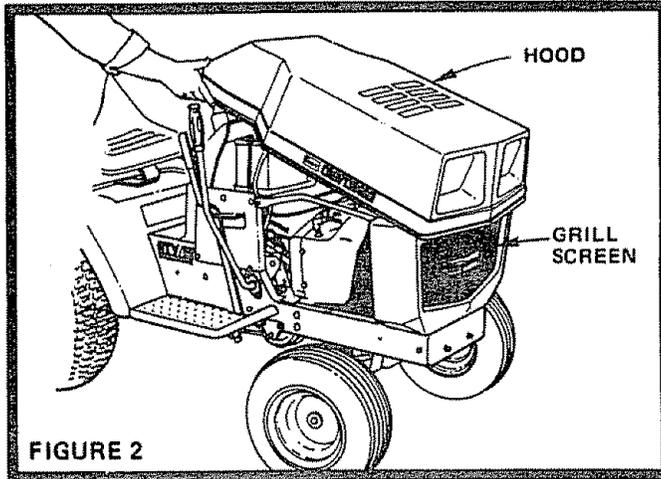


FIGURE 2

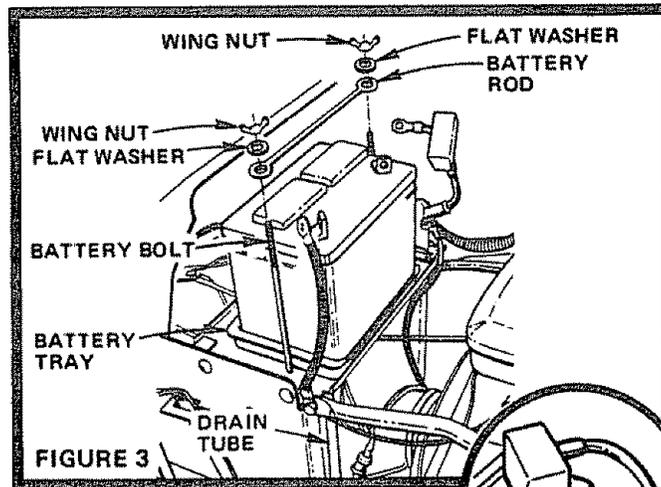


FIGURE 3

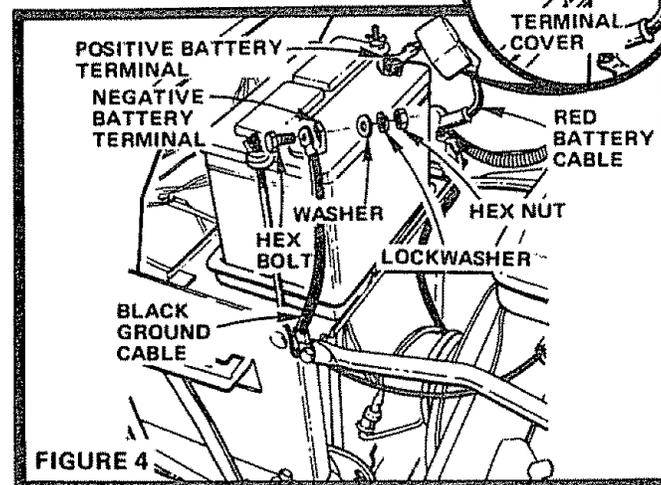


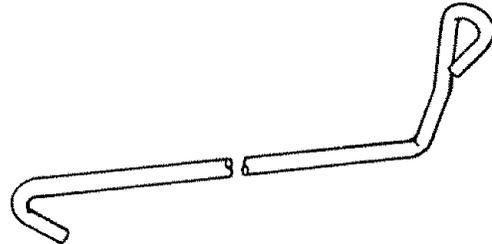
FIGURE 4

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.

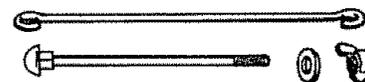
**WASH HANDS OR CLOTHING IMMEDIATELY IF ACCIDENTALLY IN CONTACT WITH ELECTROLYTE.**

- 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 it 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).

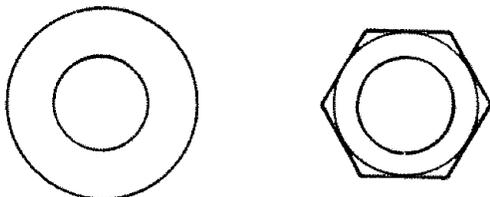
NOTE: TIGHTEN WING NUTS SECURELY USING YOUR THUMB AND FOREFINGER. DO NOT USE TOOLS - OVER TIGHTENING MAY OVERSTRESS OR CRACK THE BATTERY CASE.

- d. Insert Battery Bolt into square hole on the left side of Battery Support (Fig. 3). Fasten Battery Rod to Battery Bolt with a Flat Washer and Wing Nut.
- e. Insert remaining Battery Bolt into square hole 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 Flat Washer, Hex Jam Nut (shown full size below) and



Steering Wheel Insert found in Bag of Parts.

- a. Secure the Steering Wheel to Steering Shaft with Washer and Hex Jam Nut (Fig. 5). Tighten securely.
- b. Install the Steering Wheel Insert.

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.

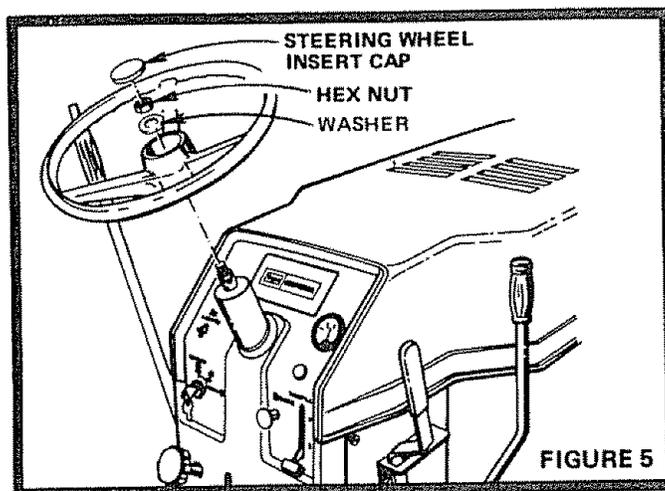


FIGURE 5

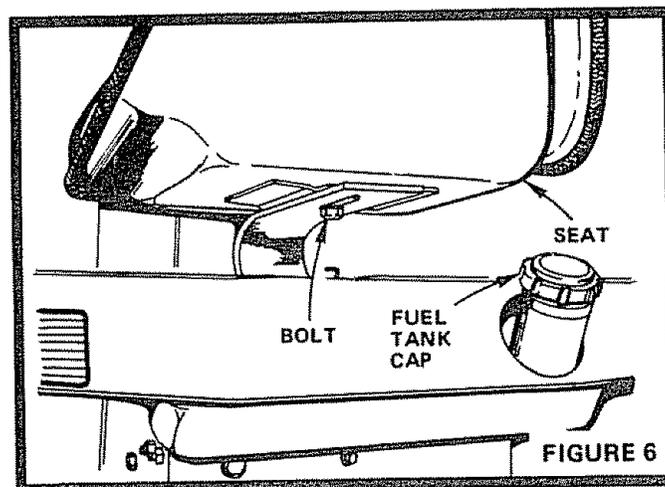


FIGURE 6

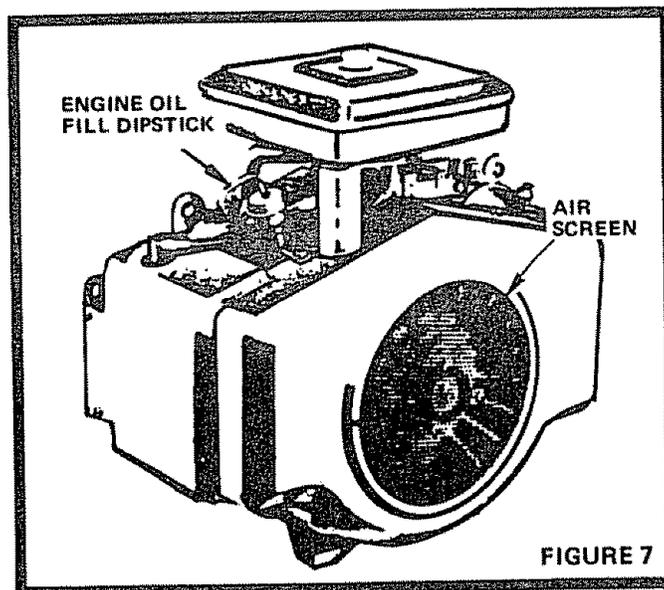
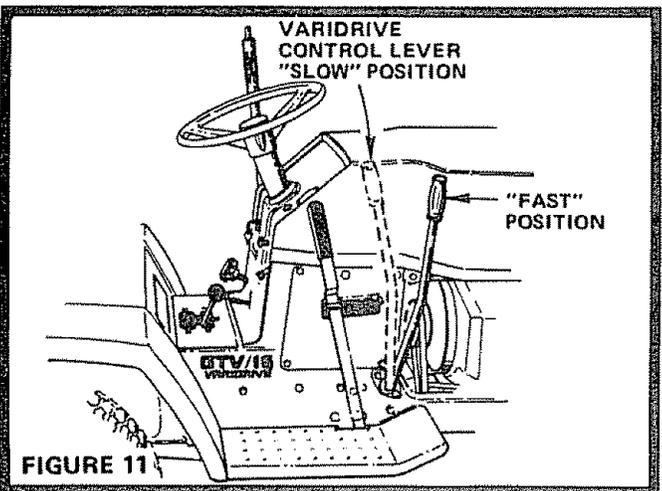
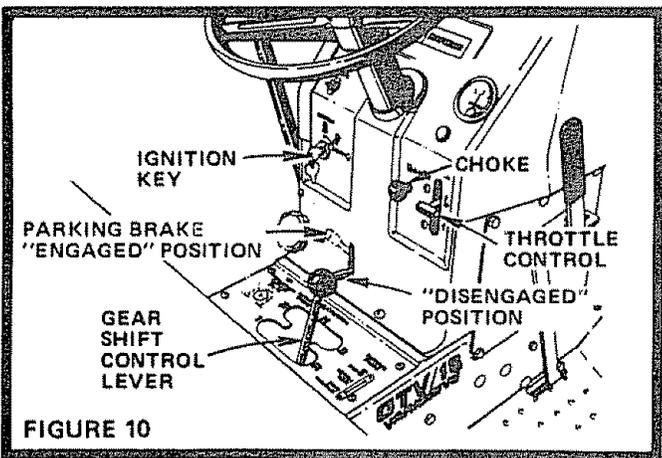
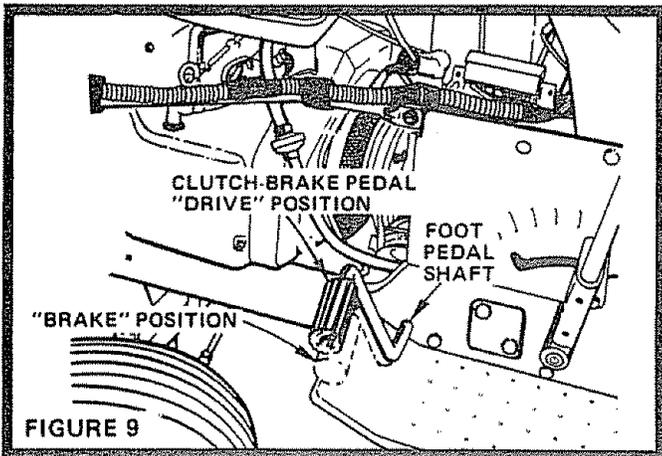
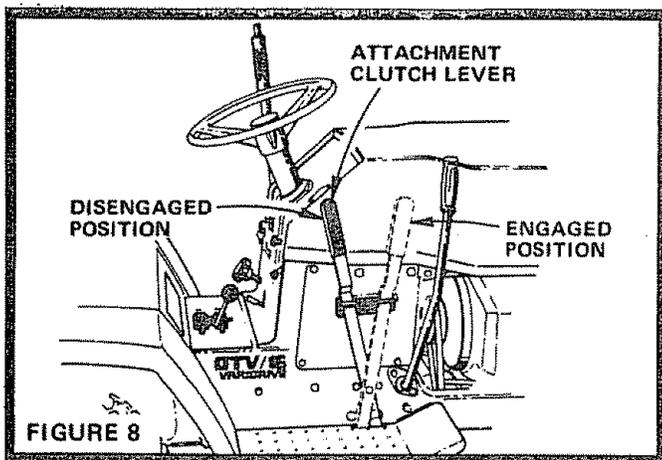


FIGURE 7

**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. 8).
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.

## 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 or rearward 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. 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 (↺) (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.

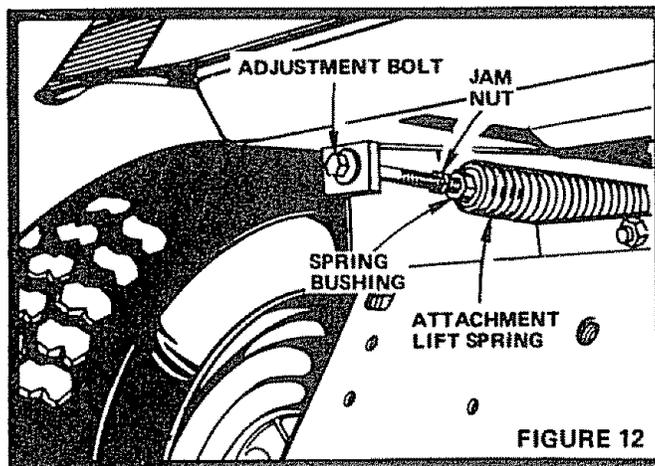


FIGURE 12

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 1st gear 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

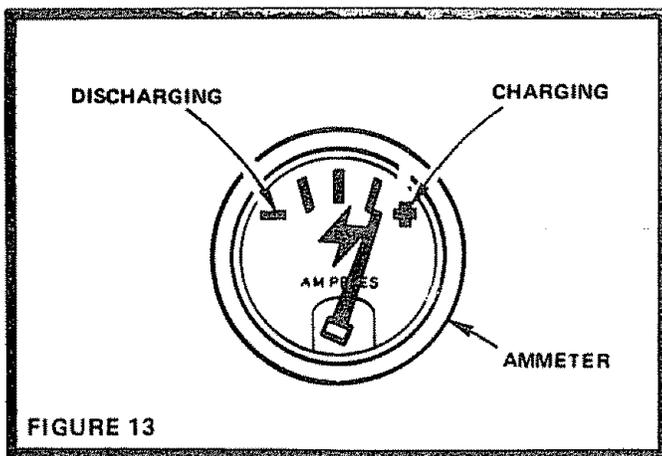


FIGURE 13

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.**

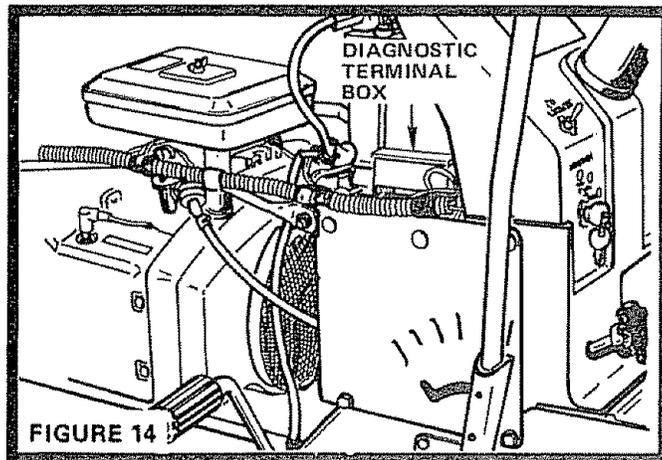


FIGURE 14

## 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).**

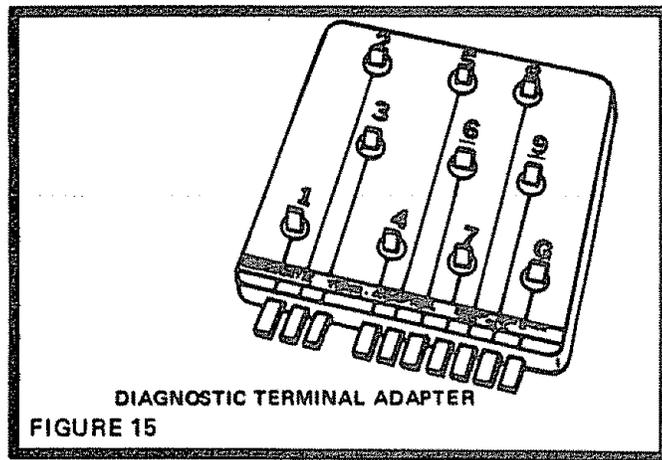


FIGURE 15

## 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.**

## 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.**

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. 8441J), 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

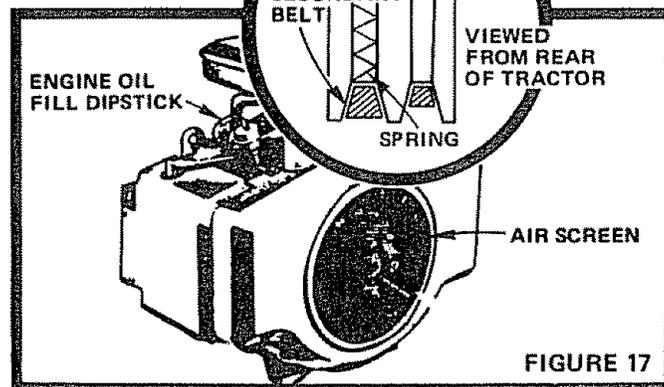
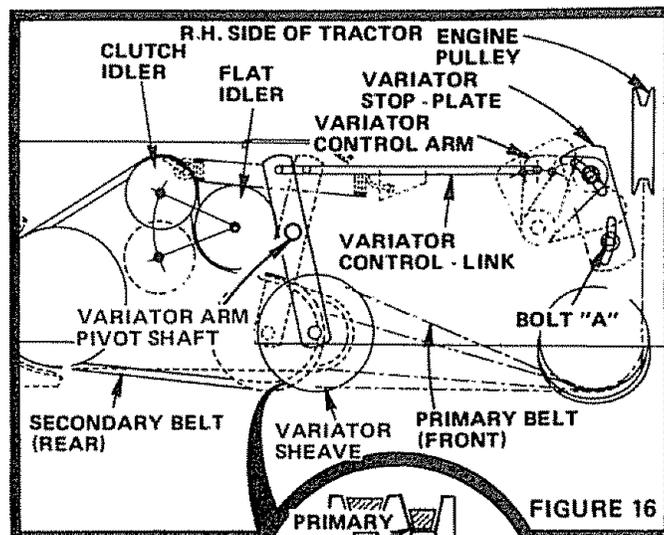
## 1. CHECK BELT ADJUSTMENT

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

- With engine running, transmission in neutral, place Varidrive 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" position, move Varidrive Control Lever to full "FAST" position (Fig. 11).
- Shut engine off and loosen Adjustment Nut on Bolt "A" for Variator Stop Plate (Fig. 16).
- Start engine and run at Idle Speed.
- Slowly move Varidrive Control Lever (Fig. 11) forward or backward until Secondary Belt is riding flush to 1/16" outside of Variator Sheave (Fig. 16 - Inset). NOTE: DO NOT PUSH DOWN ON CLUTCH PEDAL.
- Shut engine off holding Varidrive Control Lever in position as described in step d and tighten Adjustment Nut on Bolt "A" (Fig. 16).
- Start engine and move Varidrive Control Lever to "SLOW" position (Fig. 11). Primary Belt should ride flush to 1/16" out of Variator Sheave (Fig. 16 - Inset).
- Adjustment is complete when the Secondary Belt rides in the same position on the Variator Sheave in full "FAST" position, as the Primary Belt does in the "SLOW" position.
- Re-adjust as needed thereafter.
- If Belt cannot be adjusted as described in step g, replace V-Belts. Refer to "Belt Replacement", page 12.

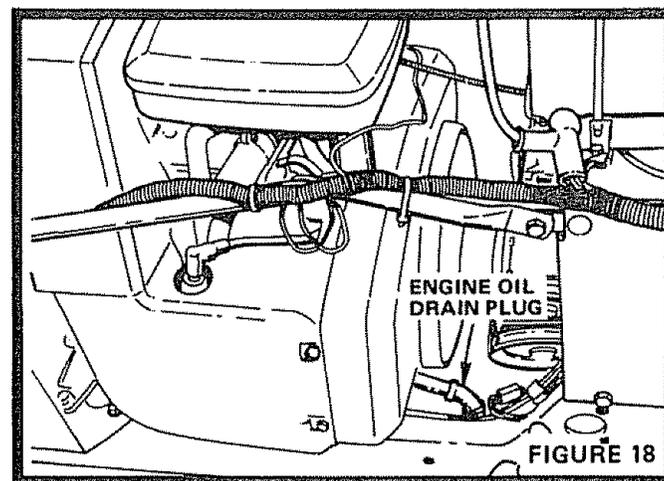


## 3. CHANGE ENGINE OIL

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.



## FREQUENTLY

### 1. CHECK BATTERY

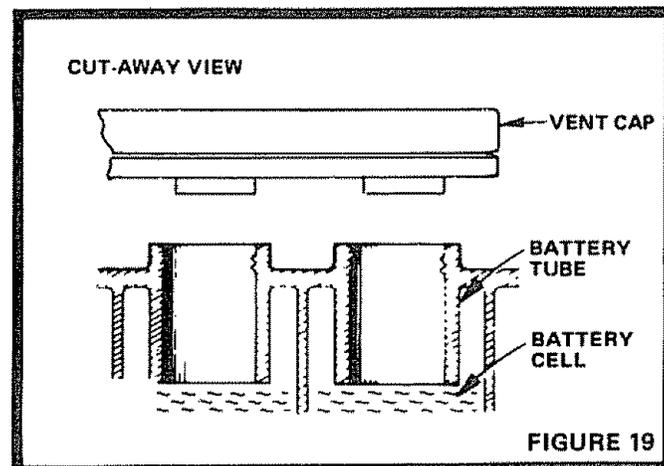
- Electrolyte solution level in each Battery Cell should be even with bottoms of tubes in cells (Fig. 19). Add distilled water if necessary. NOTE: DO NOT OVERFILL.
- Keep Battery and Terminals clean. Refer to page 12, step 6.
- Keep Battery Bolts tight.
- Keep Vent Caps tight and small vent holes in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



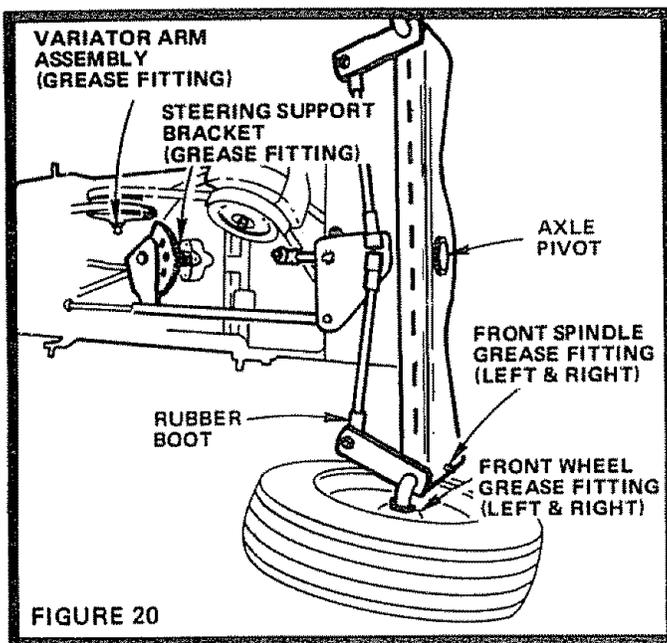


FIGURE 20

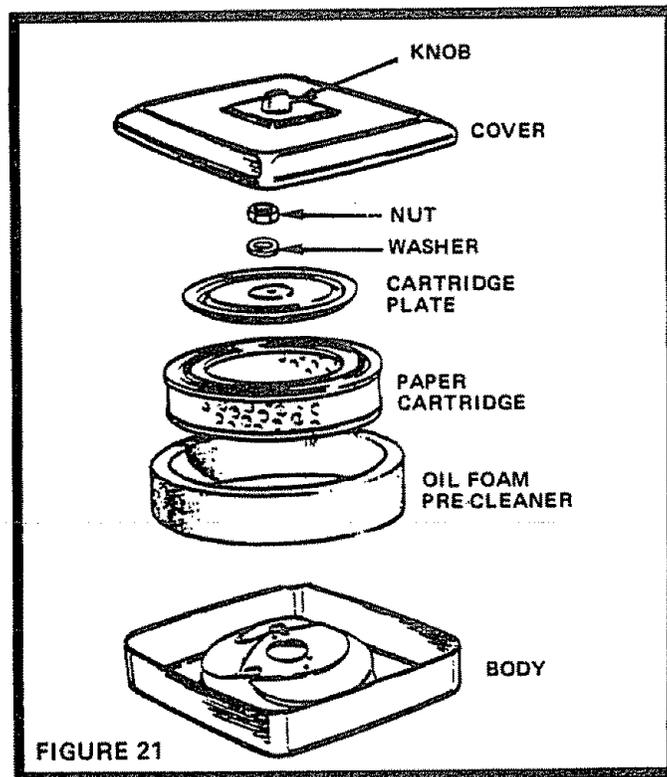


FIGURE 21

## 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.

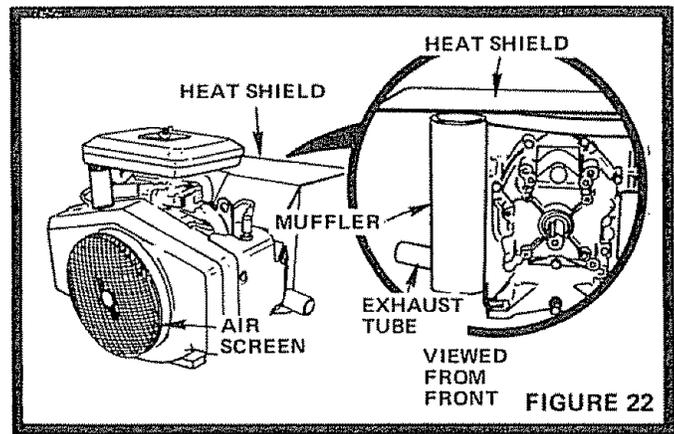
### 5. LUBRICATE STEERING AND FRONT WHEELS

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 (Fig. 33).
- Polyfoam Seal at Variator Arm Assembly Pivot Shaft (saturate with oil), see page 18, Key No's. 46, 51 and 53.
- Clutch Link and Varidrive Control Link, see page 18, Key No's. 47 and 49.
- 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

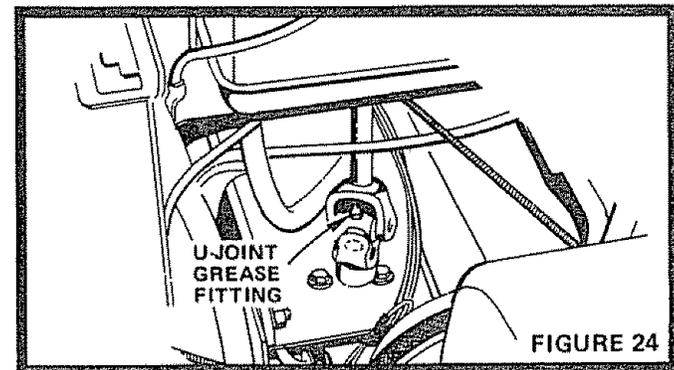
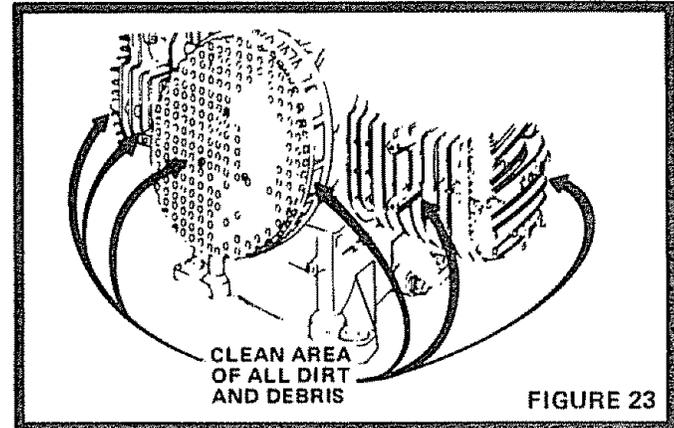
- Remove Filler Plug (Fig. 25) from Transaxle. Oil Level should be even with Filler Plug threads. Add S.A.E. 30 Motor Oil if necessary.
- Check Pressure Relief Valve (Fig. 27 - Inset) located on R.H. side near top. It should spring completely closed when pulled out by hand and released.

### 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.



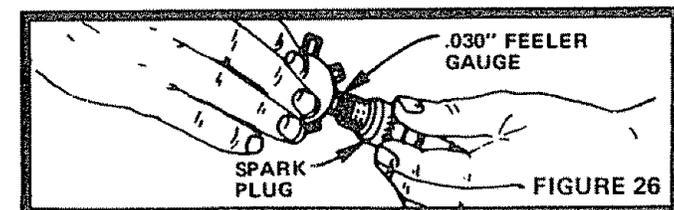
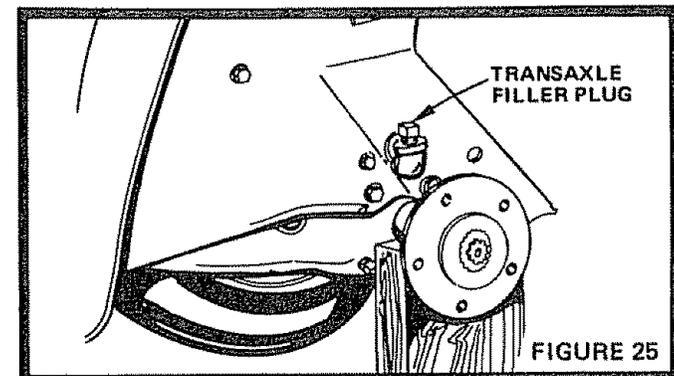
## EVERY 100 HOURS

### 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)

### 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.



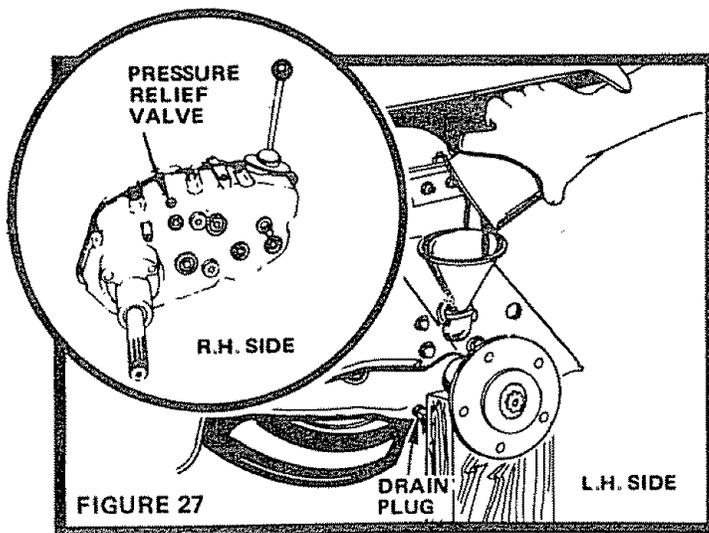


FIGURE 27

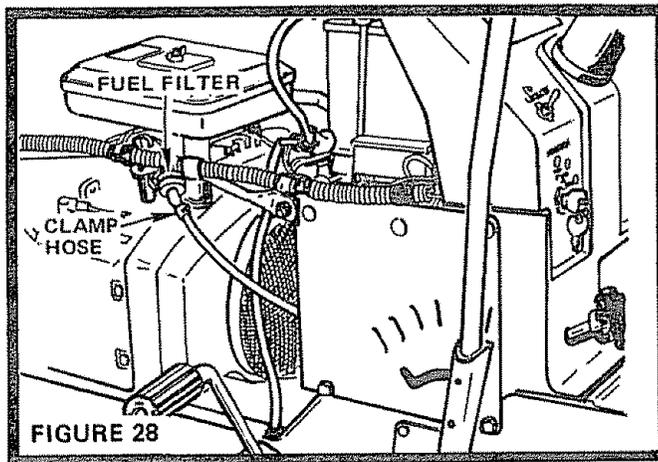


FIGURE 28

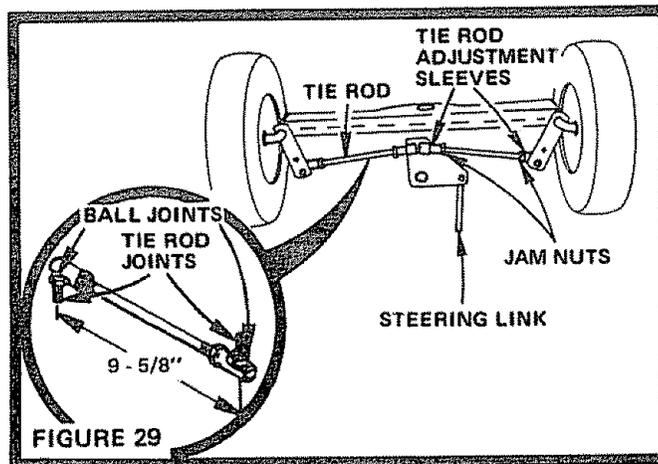


FIGURE 29

## 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.
  - a. With Engine cool, remove and plug Fuel Line Sections as removed from both ends of Fuel Filter (Fig. 28).
  - b. 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
  - a. Block up Rear Axle securely or use a Tractor Jack. Remove left Rear Wheel by removing Hub Bolts (Fig. 36).
  - b. Drain Transaxle Oil by removing Drain Plug (Fig. 27) and catching Oil in suitable container. Replace Drain Plug.
  - c. 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.
  - d. Check Pressure Relief Valve. It should spring completely closed when pulled out by hand and released.
  - e. 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.

- a. Loosen Jam Nuts (Fig. 29) at each end of Tie Rod Adjustment Sleeves.
- b. Adjust both Tie Rods so that Tie Rod Joints measure 9 - 5/8" from center to center.
- c. On front of front tires measure distance from center to center (measurement No. 1).
- d. On rear of front tires measure distance from center to center (measurement No. 2).
- e. Compare measurements - measurement No. 1 should be 1/8 - 1/4 less than measurement No. 2.
- f. If not adjust each Tie Rod equally to get correct measurement.
- g. 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.**

- a. Remove (4) Hex Washer Head Tapping Screws from Shift Cover Plate (Fig. 30), located on top tractor frame. Remove the Cover Plate.
- b. Loosen Jam Nut (A) on Brake Rod (B) at Clevis (C) (Fig. 31).
- c. Rotate Brake Rod (B) counterclockwise, (↺) turning Brake Rod out of Clevis (C) four to six turns (Fig. 31).
- d. Start tractor with Transmission in "NEUTRAL" position.
- e. Depress Brake-Clutch Pedal to the point where Secondary Belt (Fig 16) stops moving. Hold Brake-Clutch Pedal in position by engaging Parking Brake (Fig. 10). If Secondary Belt begins to move after engaging Parking Brake, depress Brake-Clutch Pedal to next notch on Parking Brake.
- f. Shut engine off. Rotate Brake Rod (B) clockwise by hand, turning Brake Rod into Clevis (C), until tight. Tighten Jam Nut (A) on Brake Rod (B) at Clevis (C) (Fig. 31).

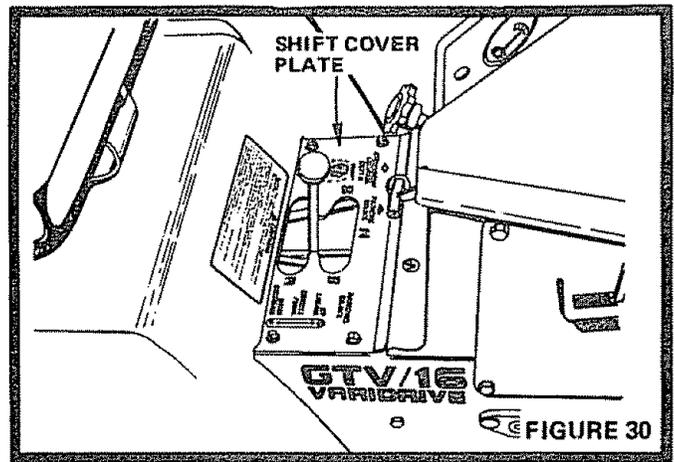


FIGURE 30

## 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.

- a. 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.

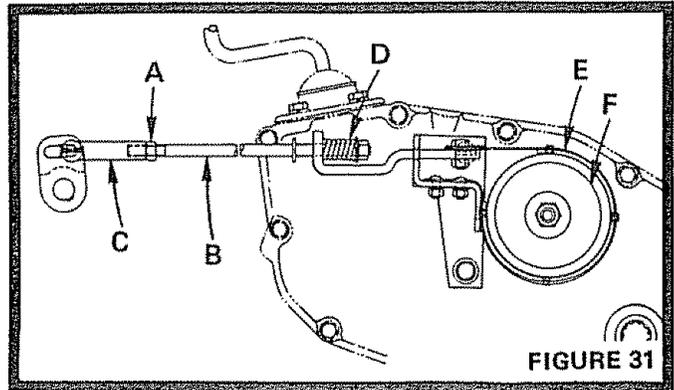


FIGURE 31



**REFER TO "STARTING THE ENGINE" PAGE 4.**

- b. 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.

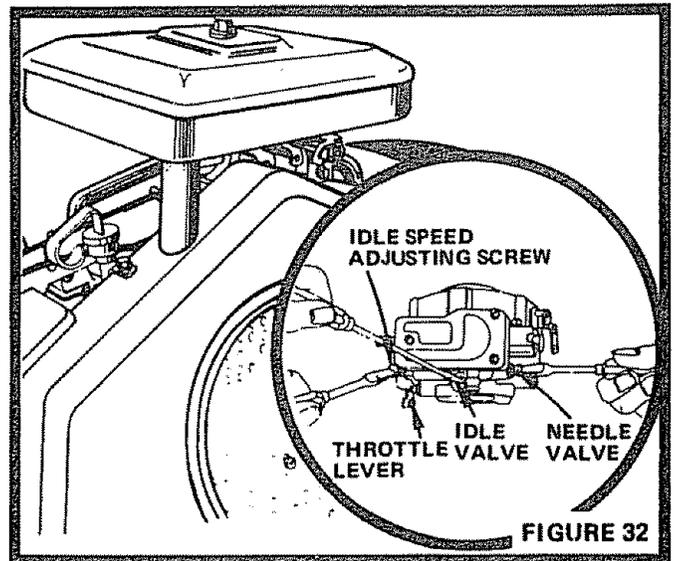


FIGURE 32

## 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.**

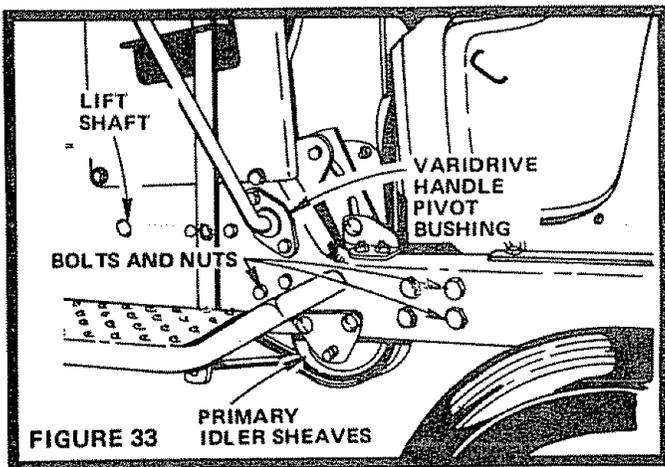


FIGURE 33 PRIMARY IDLER SHEAVES

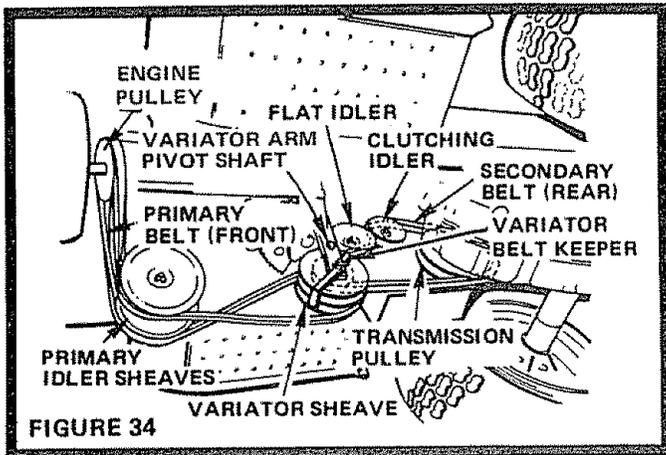


FIGURE 34

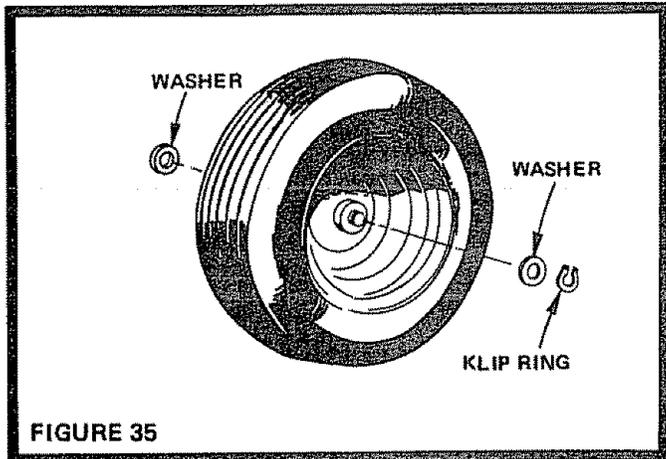


FIGURE 35

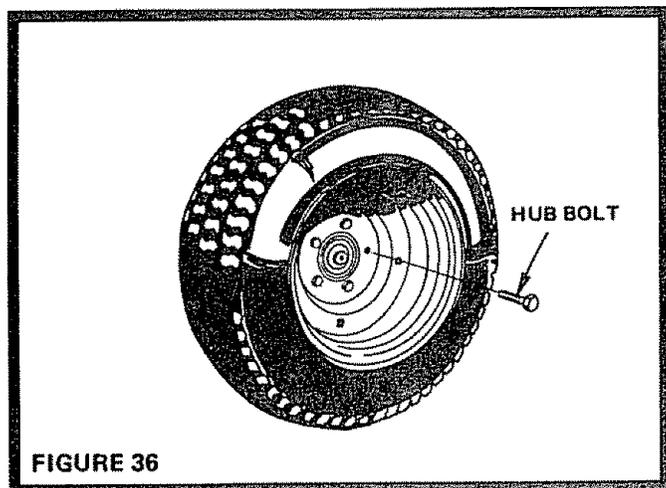


FIGURE 36

## 5. BELT REPLACEMENT

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

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

- 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.
- Clean terminals and cable ends with a wire brush until bright. Replace Battery Cables. Coat terminal connections with Vaseline.

## 7. TIRE CARE

- Maintain tire pressure in front at 14 pounds and rear tires at 10 pounds.
- Keep tires free of gasoline, oil, or insect control chemicals which can destroy rubber.
- Avoid stumps, stones, deep ruts and other hazards that may cause tire damage.
- 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.
- 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 (Fig. 8)  
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 Plugs and adjust gap (Fig. 26)  
Check Spark Plugs and for any 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

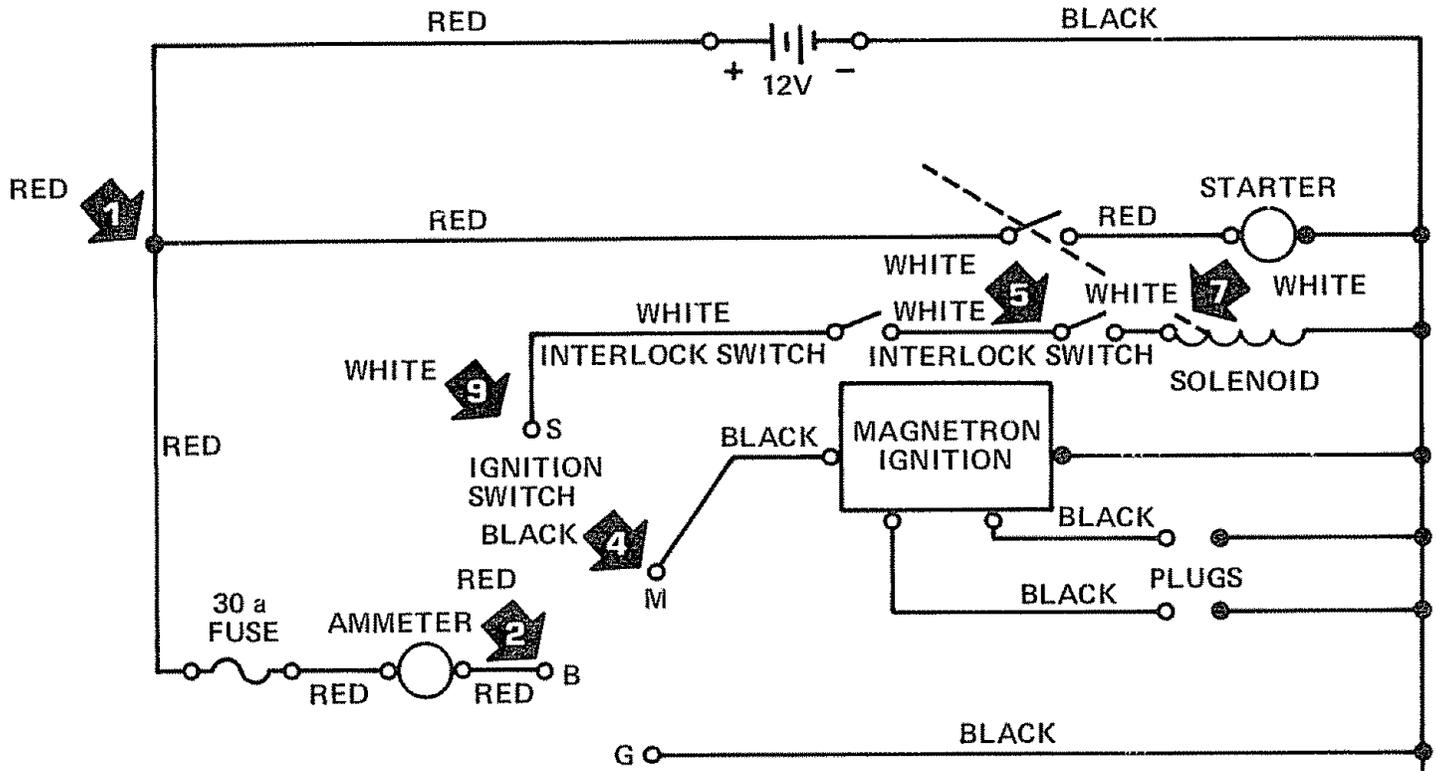
Clean engine, battery, finish etc. of all foreign matter.

### 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 917.253724



LIGHTS WILL NOT REGISTER ON AMMETER

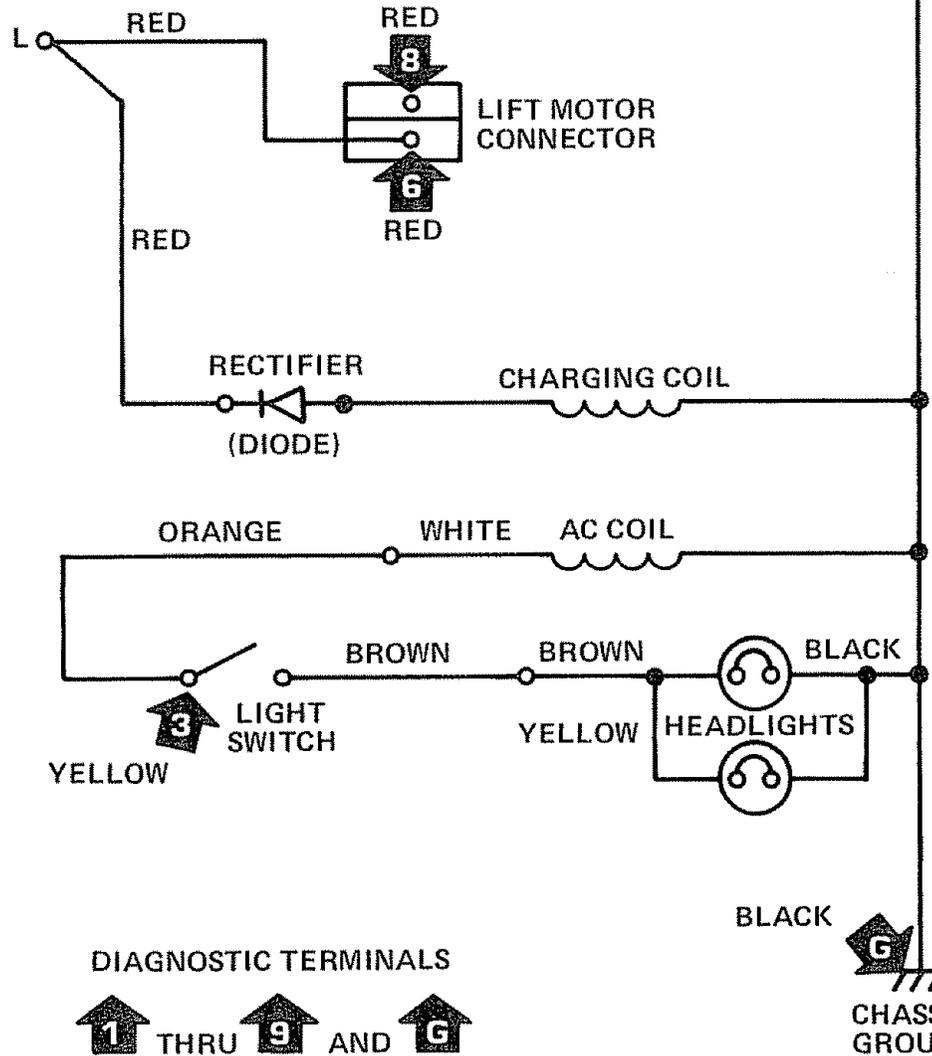
YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH THE ENGINE SPEED. AT IDLE SPEED THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL 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

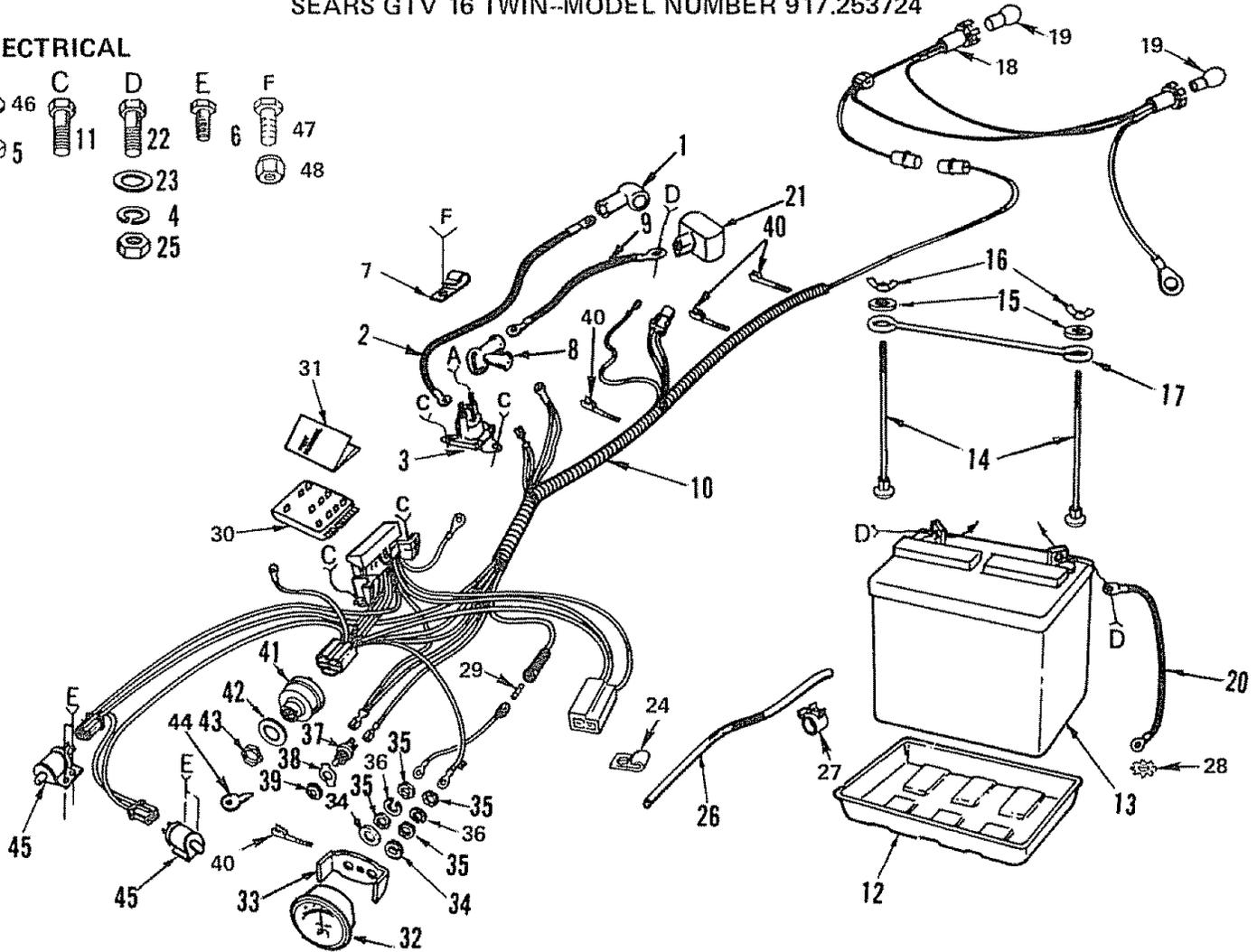
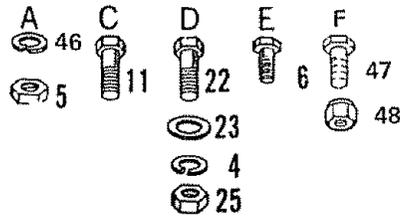
1 THRU 9 AND G

CHASSIS GROUND

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724

## ELECTRICAL



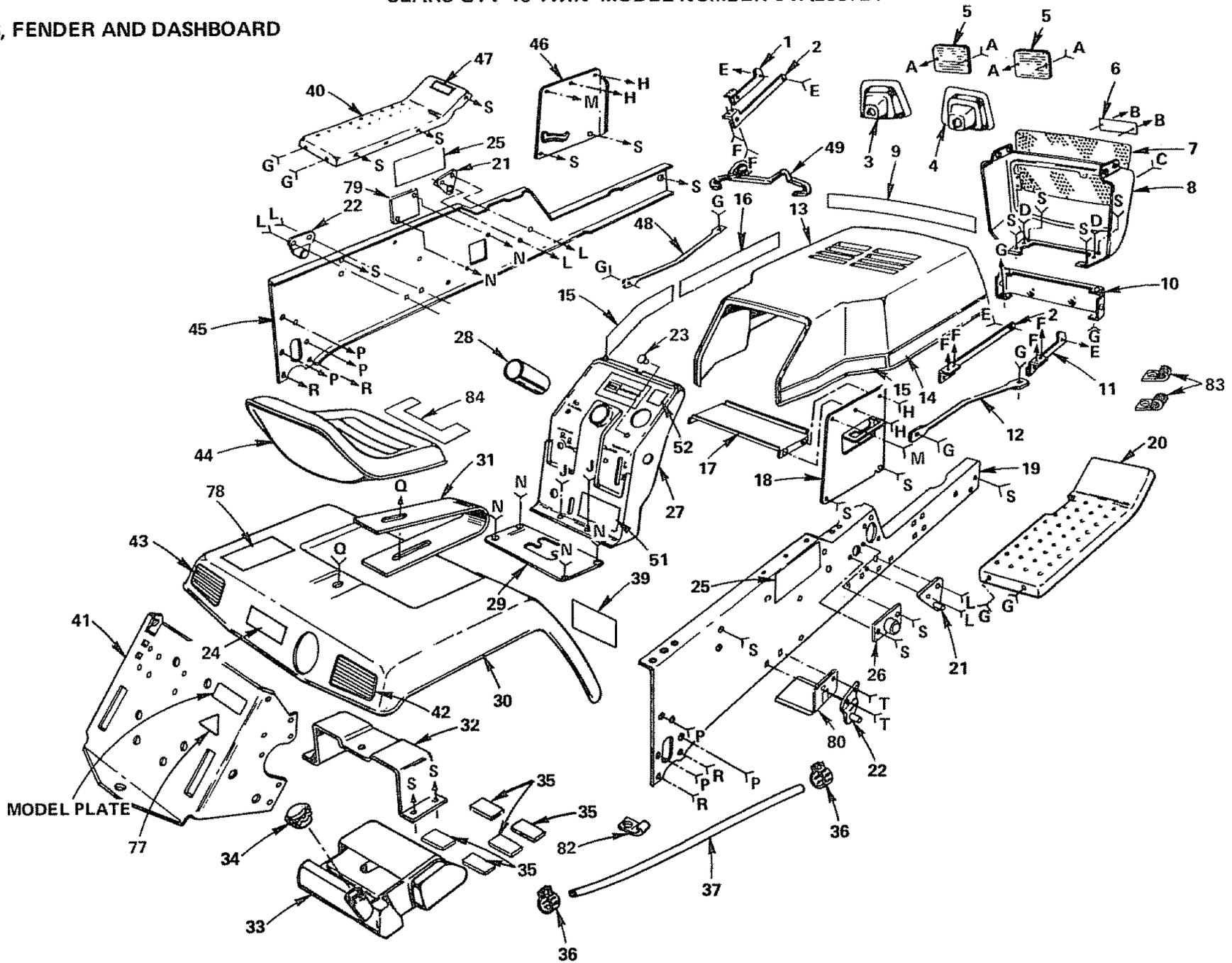
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	719J	Cover - Terminal	25	STD541025	*Nut - Hex 1/4 - 20 UNC
2	5115J	Cable - Starter	26	7604J	Tube - Plastic
3	2008J	Solenoid	27	6999R	Clamp - Hose
4	STD551125	*Lockwasher 1/4	28	1402P	Lockwasher - 3/8 Ext. Tooth
5	STD541225	*Nut - Hex Jam 1/4 - 20 UNC	29	6347R	Fuse
6	5642P	Screw - Hex Hd. Self Tapping	30	677A823	Diagnostic Terminal Adapter (Optional) order Test Manual Key No. 31
7	4171R	Clip - Insulated	31	8441J	Test Manual (Optional)
8	51J	Cover - Terminal	32	9433R	Ammeter
9	4799J	Cable - Battery	33	6009J	Bracket, Ammeter
10	8020J	Harness - Ignition & Diagnostic	34	6951J	Washer 7/32 x 1/2 x 18 Ga.
11	5584P	Screw - Hex Washer Hd. Cutting 1/4 - 20 UNC x 3/4	35	6953J	Nut, No. 10 - 32 UNF
12	7603J	Tray - Battery	36	6952J	Lockwasher No. 10
13	9138R	Battery	37	4482J	Switch - Light
14	72240460	Bolt - Rd. Hd. Sq. Nk. 1/4 - 20 UNC x 7 - 1/2	38	7682R	Plate - On - Off
15	1507P	Washer 9/32 x 3/4 x 16 Ga.	39	7320R	Nut - Hex Face
16	STD541625	*Wing - Nut 1/4 - 20 UNC	40	7192J	Tie - Cable
17	67187	Rod - Battery	41	4406R	Switch - Ignition
18	7661J	Harness Light	42	1411P	Lockwasher 5/8
19	7662J	Headlight Bulb	43	3258J	Nut - Flat
20	4207J	Cable - Battery	44	STD365410	Key
21	225J	Cover - Terminal	45	7755R	Switch - Interlock
22	STD522507	*Bolt - Hex Hd. 1/4 - 20 UNC x 3/4	46	1415P	Lockwasher 1/4
23	STD551025	*Washer 9/32 x 5/8 x 16 Ga.	47	74760508	Bolt - Hex Fin. 5/16 - 18 x 1/2
24	2751R	Clip - Insulated	48	73680500	Nut - Crownlock 5/16 - 18 UNC
			---	7193J	Tag - Warning
			---	8630J	Owners Manual

\*STANDARD HARDWARE--PURCHASE LOCALLY

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724

## CHASSIS, FENDER AND DASHBOARD



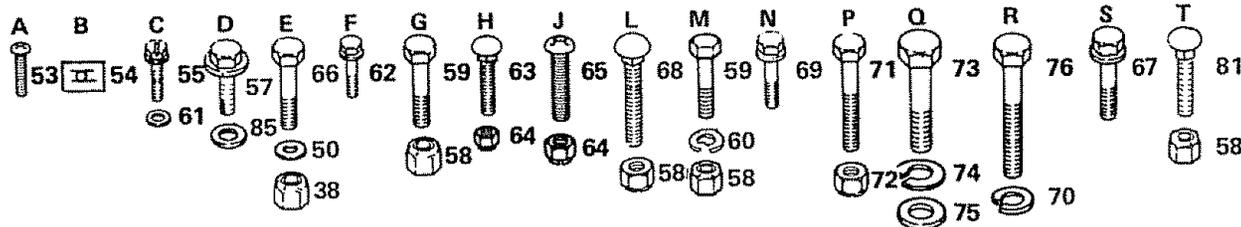
# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724

## CHASSIS, FENDER AND DASHBOARD

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	677A875	Strap Assembly - Hinge	33	3616J	Tank - Fuel	63	67P	Bolt - Round Hd. Square Neck
2	677A432	Strap Assembly - Hinge	34	4609J	Cap - Fuel			5/16 - 18 UNC x 3/4 Gr. 5
3	678H570	Bezel - L.H.	35	6431J	Pad - Spacer	64	575P	Nut - Crownlock
4	678H571	Bezel - R.H.	36	6999R	Clamp - Hose			5/16 - 18 UNC
5	3600J	Lens - Headlamp	37	5277J	Fuel Line	65	3419P	Screw - Truss Hd. Cross Recess
6	4110J	Logo - Grill	38	574P	Nut - Crownlock 1/4 - 20 UNC			5/16 - 18 UNC x 3/4
7	677H938	Screen - Grill	39	4910J	Decal - Caution	66	7605J	Bolt - Shoulder 1/4 - 20 UNC
8	677H937	Grill	40	677H787	Foot Rest - L.H.	67	5627P	Screw - Hex Washer Hd.
9	7091J	Decal - Strip Hood Front	41	678H624	Drawbar Assembly			Type TT Thread Rolling
10	677H993	Bracket - Frame, Front	42	4903J	Decal - Reflector R.H.			3/8 - 16 UNC x 3/4
11	677A876	Strap Assembly - Hinge	43	4902J	Decal - Reflector L.H.	68	STD533707	* Bolt - Rd. Hd. Sq. Nk.
12	678H266	Brace - Grill - R.H.	44	1496J	Seat			3/8 - 16 UNC x 3/4 Gr. 5
13	678H108	Hood	45	678H609	Rail - Frame L.H.	69	5514P	Screw - Hex Washer Hd.
14	7092J	Decal - Strip Hood R.H.	46	678H611	Panel - Side L.H.			Tapping 1/4 - 20 x 1/2
15	4904J	Decal - Strip Hood	47	4900J	Decal Clutch/Brake	70	STD551143	* Lockwasher 7/16
16	7090J	Decal - Strip Hood L.H.	48	678H267	Brace - Grill L.H.	71	3034P	Bolt - Hex, Finished
17	678H614	Support - Battery	49	5592J	Guard Belt, Main Dr.			7/16 - 14 UNC x 1
18	678H610	Panel - Side R.H.	50	1536P	Washer 9/32 x 1/2 x 16 Ga.	72	73680700	Nut - Crownlock 7/16 -
19	678H742	Rail - Frame R.H.	51	8497J	Decal - Instruction			14 UNC
20	678H33	Foot Rest - R.H.	52	7651J	Decal - Control - Varidrive	73	STD525010	* Bolt - Hex Finished
21	678H447	Bracket Ass'y. - Hanger, Front	53	5632P	Screw - Cross Recess Pan Hd.			1/2 - 13 UNC x 1 Gr. 5
22	678H340	Bracket Ass'y. - Hanger, Rear	54	7921J	No. 8 - 18 Hi - Lo x 1/2	74	STD551150	* Lockwasher 1/2
23	8022J	Plug - Dash	55	5638P	Fastener - Push On	75	1625P	Washer 17/32 x 1 - 3/16 x
24	7178J	Decal, Caution			Screw - Hex Slotted Hd.			12 Ga.
25	5358J	Decal - Feature	57	17490616	Parkerized Self Tapping Type	76	3039P	Bolt - Hex Finished
26	678H643	Bracket Lever, Control			AB No. 12 x 1/2			7/16 - 14 UNC x 2 - 1/2
27	8017J	Dash	58	545P	Screw - Hex Washer Hd. Thd.	77	5224J	Safety Standard Sticker
28	4182J	Sleeve - Steering	59	STD523707	Rolling 3/8 - 16 UNC x 1	78	8023J	Label - Feature, Product
29	677H941	Cover, Shift - Gate	60	STD551037	Nut - Crownlock 3/8 - 16 UNC	79	678H729	Plate - Cover
30	677H786	Fender	61	8019J	* Bolt - Hex, Finished	80	6553J	Keeper - Belt, Secondary
31	677H779	Spring - Seat	62	5631P	3/8 - 16 UNC x 3/4	81	28P	Bolt - Rd. Hd. Short Sq. Nk.
32	677H778	Bracket Ass'y. - Fender			* Washer 13/32 x 13/16 x 16 Ga.			3/8 - 16 x 1 Gr. 5
					Washer 7/32 x 5/8 x 16 Ga.	82	2751R	Clip - Fuel Line
					Screw - Finished Hex	83	4171R	Clip Insulated
					Washer Head No. 13 - 16	84	5339J	Decal - Shift Plate
					Hi - Lo x 5/8	85	19131614	Washer 13/32 x 1 x 14 Ga.

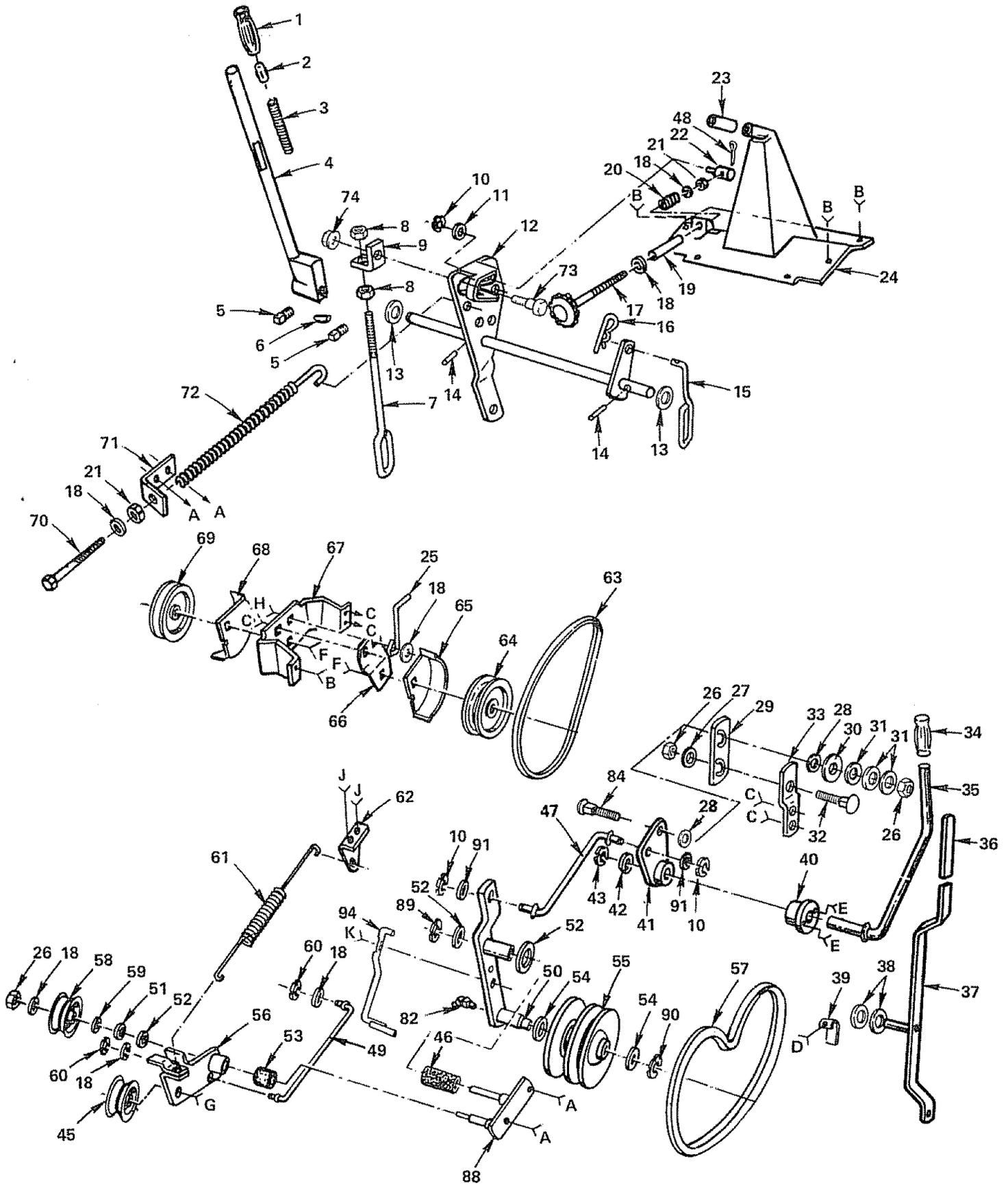
\*STANDARD HARDWARE--PURCHASE LOCALLY



# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724

## VARIDRIVE SYSTEM



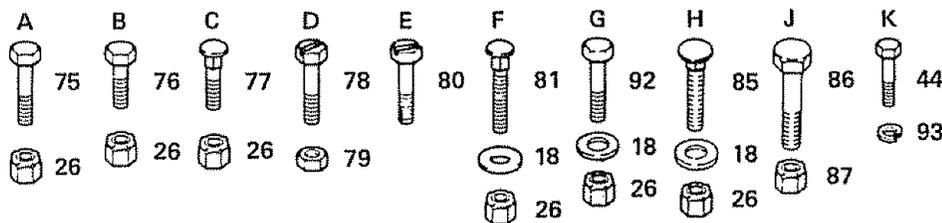
# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724

## VARIDRIVE SYSTEM

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	2895H	Grip - Handle	49	5640J	Link - Clutch
2	8016J	Plunger - Lever, Hand	50	677H916	Arm Assembly - Variator
3	2876H	Spring	51	3445J	Seal - Felt
4	678H642	Lever Assembly - Hand	52	1527P	Washer 21/32 x 7/8 x 16 Ga.
5	4551P	Set Screw - Hex Socket Forged 3/8 - 16 UNC x 3/8 Nylon Patch	53	5465J	Seal - Dirt
6	8330H	Key - Woodruff 1/4 x 1	54	206J	Washer - Hardened
7	7596J	Link - Lift, L.H.	55	7930J	Sheave - Variator
8	STD541037	*Hex Nut 3/8 - 16 UNC	56	677A883	Arm Assembly - Idler Clutch
9	7594J	Bracket - Lift, L.H.	57	5262J	V-Belt Secondary
10	5024P	Klip Ring	58	4859J	Idler - Flat
11	1615P	Washer 15/32 x 13/16 x 16 Ga.	59	1637P	Washer 13/32 x 1 - 1/4 x 12 Ga.
12	678H621	Shaft Assembly - Lift	60	5031P	Klip Ring
13	1616P	Washer 29/32 x 1 - 1/4 x 16 Ga.	61	5641J	Spring - Idler
14	5142H	Pin - Roll 3/16 x 1 - 1/4	62	678H448	Bracket - Spring
15	8488J	Link - Lift, R.H.	63	7074J	V-Belt Primary
16	4939M	Pin - Spring, Retaining	64	2083R	Flat Idler <i>H7/8 diam.</i>
17	6533J	Rod - Lift, Adjustment	65	5256J	Guide - Belt, Flat Idler
18	STD551037	*Washer 13/32 x 13/16 x 16 Ga.	66	5255J	Bracket - Flat Idler
19	7222J	Spacer - Split, 7/16 x 9/16 x 3 - 1/2	67	677H917	Bracket - "V" Idler
20	2876H	Spring	68	5253J	Guide - Belt, "V" Idler
21	STD541237	*Nut - Hex, Jam 3/8 - 16 UNC	69	4200J	Pulley - "V" Idler
22	678H450	Trunnion - Adjust. Height	70	5328J	Bolt - Adjust, Spring, Assist
23	9038R	Bearing	71	678H445	Bracket - Spring, Assist
24	678H612	Support Assembly - Dash, Steering	72	678H641	Spring Assembly - Assist, Lift
25	7195J	Belt Retainer	73	7901J	Shoulder Bolt
26	545P	Nut - Crownlock 3/8 - 16 UNC	74	73900400	Flanged Hex Locknut 1/4 - 20
27	1637P	Washer 13/32 x 1 - 1/4 x 12 Ga.	75	STD523710	*Bolt - Hex Finished 3/8 - 16 UNC x 1
28	5315J	Disc - Friction	76	STD523707	*Bolt - Hex Finished 3/8 - 16 UNC x 3/4
29	7021J	Plate - Stop, Variator	77	STD533707	*Bolt - Round Hd. Sq. Neck 3/8 - 16 UNC x 3/4 Gr. 5
30	1624P	Washer 3/8 x 1 - 1/2 x 5 Ga.	78	STD511010	*Screw - Hex Fin. No. 10 - 24 x 1
31	2263R	Spring Washer	79	STD541410	*Nut - No. 10 - 24
32	28P	Bolt - Round Hd. Sq. Neck 3/8 - 16 UNC x 1 Gr. 5	80	5627P	Screw - Hex Washer Head Thd. Rolling 3/8 - 16 UNC x 3/4
33	678H744	Bracket - Stop, Variator	81	72110614	Bolt - Rd. Hd. Short Sq. Nk. 3/8 - 16 UNC x 1 - 3/4 Gr. 5
34	7588J	Grip - Handle	82	6855M	Grease Fitting
35	8001J	Lever - Control, Varidrive	84	STD533715	*Bolt - Rd Hd. Sq. Nk. 3/8 - 16 UNC x 1 - 1/2
36	4617J	Grip - Handle	85	STD533710	*Bolt - Rd. Hd. Sq. Neck Carriage 3/8 - 16 x 1 Gr. 5
37	674A271	Shaft Assembly - Lever, Control	86	STD523107	*Bolt - Hex Finished 5/16 - 18 x 3/4
38	1588P	Washer 17/32 x 3/4 x 16 Ga.	87	575P	Nut - Crownlock 5/16 - 18 UNC
39	5348J	Actuator, Interlock	88	678H740	Bracket Assembly - Variator
40	5314J	Bushing - Control, Lever	89	5023P	Klip Ring
41	5661J	Arm - Control, Variator	90	5025P	Klip Ring
42	1664P	Washer 19/32 x 1 - 3/4 x 16 Ga.	91	1676P	Washer 13/32 x 13/16 x 20 Ga.
43	5036P	Klip Ring	92	STD523717	*Bolt - Hex, Finished 3/8 - 16 UNC x 1 - 3/4
44	STD522505	*Bolt - Hex Fin. 1/4 - 20 x 1/2	93	STD551125	*Lockwasher 1/4
45	4860J	Idler - Flat		674A232	Keeper - Belt Assembly
46	5986J	Seal - Dirt			
47	5324J	Link - Control Variator			
48	STD560907	*Pin - Cotter 3/32 x 3/4			

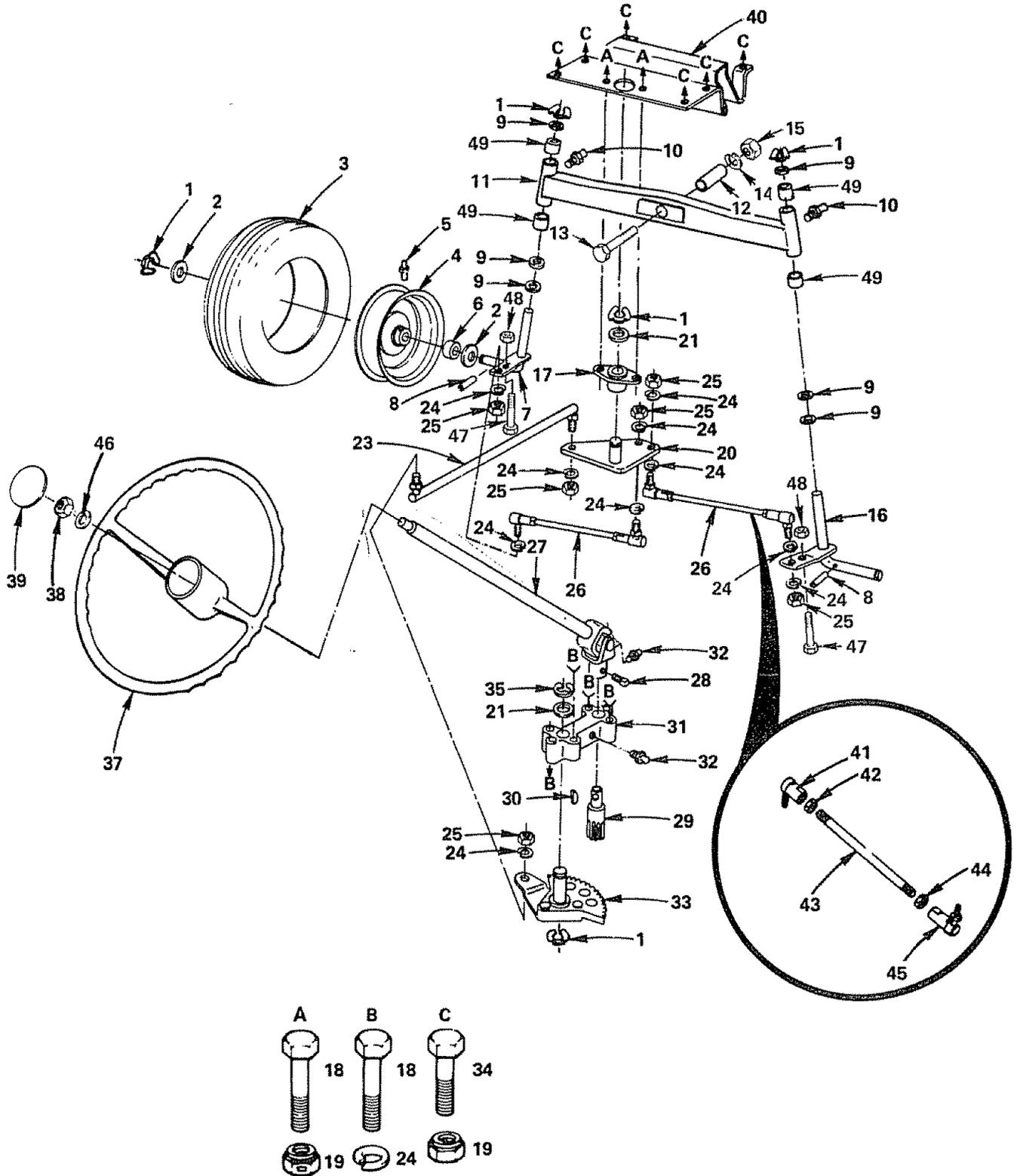
\*STANDARD HARDWARE--PURCHASE LOCALLY



# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724

## STEERING



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# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724

## STEERING

KEY NO.	PART NO.	DESCRIPTION
1	5022P	Klip Ring
2	1617P	Washer 25/32 x 1 - 1/4 x 16 Ga.
3	3641J	Tire - 16 x 6.50
4	9541R	Front Wheel (Inc. Key No. 5 & 2 of Key No. 6)
5	6856M	Grease Fitting
6	9040H	Flanged Bearing
7	678H616	Spindle Assembly, L.H.
8	9530R	Pin - Groove, 3/16 x 1 - 1/4
9	6266H	Race - Thrust
10	6855M	Fitting - Grease
11	674A244	Axle Assembly - Front (with Bearings)
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	678H615	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	7990J	Tie Rod
27	678H670	U-Joint Assembly *
28	STD503705	* 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	7919J	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.
47	STD523720	* Bolt - Hex Fin. 3/8 - 16 UNC x 2 Gr. 5
48	518P	Nut - Keps 3/8 - 16 UNC
49	1309H	Bearing

\*STANDARD HARDWARE--PURCHASE LOCALLY



# REPAIR PARTS

SEARS GTV 16 TWIN-MODEL NUMBER 917.253724

## CLUTCH - BRAKE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2	1660P	Washer 13/32 x 3/4 x 10 Ga.	31	5606P	Screw - Hex Washer Hd.	63	8021J	Clip - Insulated
3	7976J	Muffler			Thrd. Forming 1/4 - 20 UNC	64	73680700	Nut - Crownlock 7/16 - 14 UNC
4	8545J	Gasket - Muffler			x 1/2			Pulley - Transaxle
5	9858M1	Woodruff Key	32	7171J	Bracket - Interlock Switch	65	5241J	Locknut - 1/2 - 20 UNF
6	61159	Knob - Throttle Control	33	677H996	Bracket - Support, Steering	66	9204H	Guard - Belt, Transaxle
7	74570412	Screw Hex Socket Hd. 1/4 - 20 x 3/4	34	7970J	Engine - 16 H.P. Twin	67	7424J	* Bolt - Hex, Finished
			36	7975J	Spacer 1 x 1 - 1/4 x 1.062	68	STD523107	5/16 - 18 UNC x 3/4 Gr. 5
8	678H607	Shield - Heat	37	71673	Plunger - Cap			Washer 11/32 x 3/4 x 16 Ga.
9	STD533707	* Bolt - Round Hd. Short Sq. Neck 3/8 - 16 UNC x 3/4 Gr. 5	38	678H619	Rod - Brake, Parking	69	1599P	Wheel - Rear
			39	3034P	Bolt - Fin. Hex 7/16 - 14 UNC x 1	70	9528R	Rear Wheel Hub & Bushing
10	545P	Nut - Crownlock 3/8 - 16 UNC	40	1685H	Centerlock Nut 5/16 - 18	71	634A692	Bolt - Hub
11	STD551143	* Lockwasher 7/16	41	7974J	Pulley - Drive Attachment	72	1304H	Washer - Thrust
12	STD522503	* Bolt - Hex Finished 1/4 - 20 UNC x 1/2	42	9396E	Key - 1/4 x 2	73	7563R	Klip Ring Truarc No. 5304-75
13	STD551125	* Lockwasher 1/4	43	1624P	Washer 3/8 x 1 - 1/2 x 1 5 Ga.	74	5027P	Transaxle - 3 Speed
14	574P	Nut - Crownlock 1/4 - 20 UNC	44	STD551137	* Lockwasher - 3/8	75	633A110	Spacer - Transaxle
15	72140507	Bolt - Rd. Hd. Sq. Neck 5/16 - 18 UNC x 7/8 Gr. 5	45	3392P	* Bolt - Hex, Finished 3/8 - 24 UNF x 1 - 3/4	76	4186J	Drum - Brake
16	STD551037	* Washer 13/32 x 13/16 x 16 Ga.	46	STD523112	* Bolt - Hex Finished 5/16 - 18 UNC x 1 - 1/4 Gr. 5	77	214J	* Pin - Cotter 3/32 x 3/4
17	1402P	Lockwasher 3/8 Ext. Tooth	47	STD551131	* Lockwasher 5/16	78	STD560907	Woodruff Key
18	STD541137	* Nut - Fin. Hex 3/8 - 24 UNF	48	STD541031	* Nut - Hex 5/16 - 18 UNC	79	2228M	Brake Band
19	5142H	Pin - Roll 3/16 x 1 - 1/4	49	677H918	Base - Engine	80	7920J	Screw - Machine Undercut Flat Hd. 3/8 - 16 UNC x 3/4
20	678H743	Shaft Assembly - Pedal, Foot	50	4033P	Elbow - 1/4 NPT Street	81	3164P	Bolt - Hex, Finished 3/8 - 16 UNC x 7/8
21	8883R	Cover - Pedal, Foot	51	4006P	Nipple - 1/4 NPT x 2 - 1/2	82	3022P	Bolt - Rd. Hd. Sq. Neck 1/4 - 20 UNC x 5/8 Gr. 5
22	5304J	Actuator - Switch, Interlock	52	4025P	Elbow - 1/4 NPT 90°	83	11P	* Nut - Hex 1/4 - 20 UNC
23	STD511010	* Screw - Hex Fin. No. 10 - 24 UNC x 1	53	4001P	Plug - 1/4 NPT Square Head	84	STD541025	Bracket Assembly, Brake
24	STD541410	* Nut - Lock No. 10 - 24 UNC	54	STD523707	* Bolt - Hex Finished 3/8 - 16 UNC x 3/4	85	677A637	Pin - Clevis
25	STD533107	* Bolt - Rd. Hd. Short Sq. Neck 5/16 - 18 x 3/4 GR. 5	55	7956J	Adapter - Pulley	86	5102J	Guide - Rod, Brake
26	6894J	Control - Choke	56	STD523710	* Bolt, Hex Head 3/8 - 16 UNC x 1 Gr. 5	87	7229J	Nut - Hex Centerlock with Nylon
27	3640J	Tire - Rear 23 x 8.50 - 12	57	7955J	Pulley - Ground Drive	88	511P	Spring - Compression
28	795R	Tire Valve	59	9439M	Knob - Control	89	7241J	Rod - Brake
29	8318J	Bracket - Interlock Switch	60	633A109	Gear Shift Lever Ass'y.	90	5308J	Clevis
30	5695J	Control - Throttle	61	575P	Nut - Crownlock 5/16 - 18 UNC	91	5101J	Clamp - Tube, 1 - 1/8
			62	7952J	Bracket Support, Transaxle	92	100000K	Tube - Exhaust
						93	100001L	

\*STANDARD HARDWARE-PURCHASE LOCALLY

### OPTIONAL EQUIPMENT

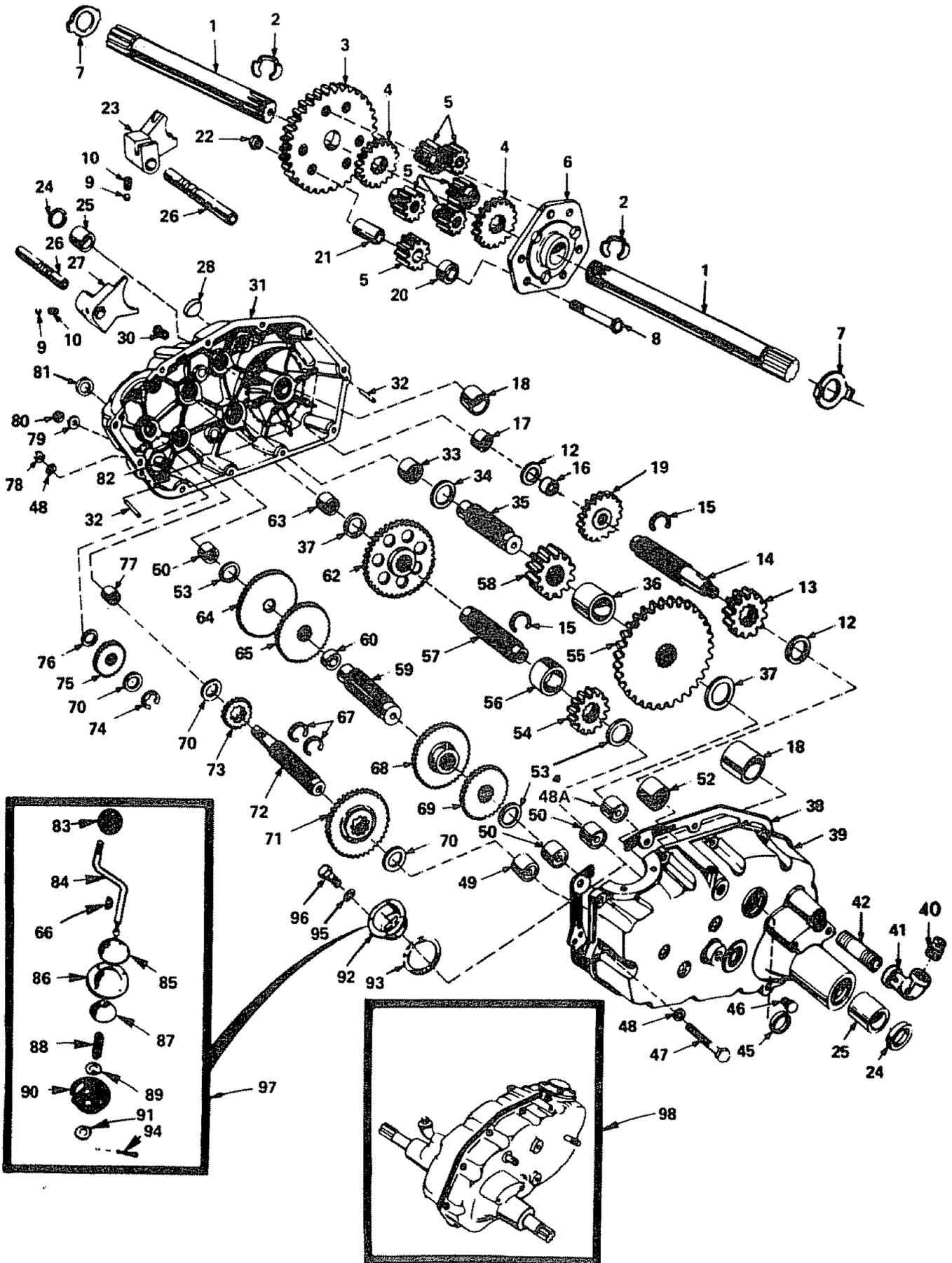
SPARK ARRESTER MUFFLER

674A380

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724

## TRANSAXLE



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# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724

## TRANSAXLE

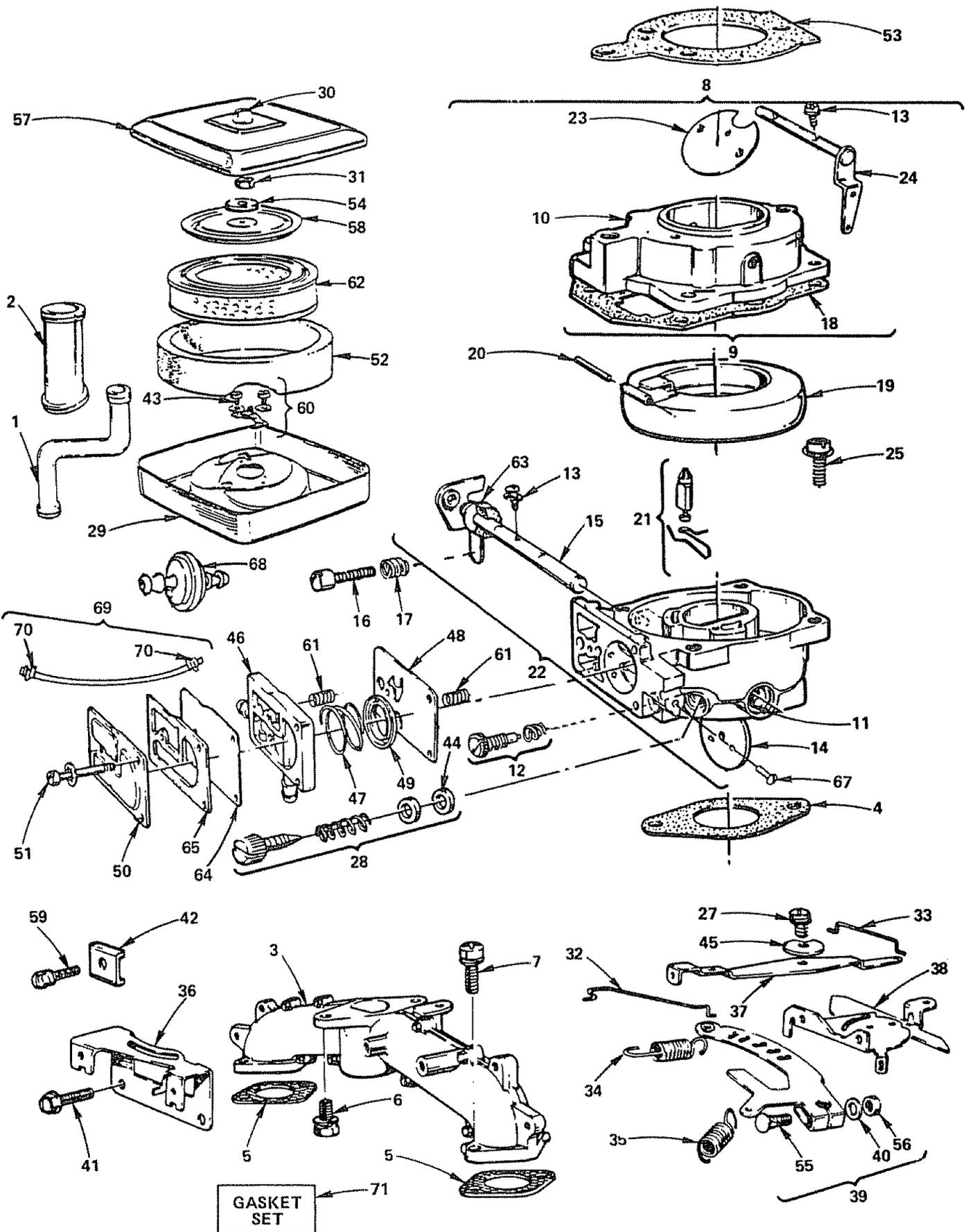
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axle Shaft	49	4895H	Needle Bearing
2	5845R	Retaining Ring	50	4222R	Needle Bearing
3	4199R	Final Drive Gear	52	8119M	Needle Bearing
4	4216R	Differential Gear	53	4220R	Thrust Bearing Race
5	4215R	Differential Pinion	54	4209R	3rd Reduction 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 917.253724  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0676-01

## AIR CLEANER--CARBURETOR GROUP



# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0676-01

## AIR CLEANER--CARBURETOR GROUP

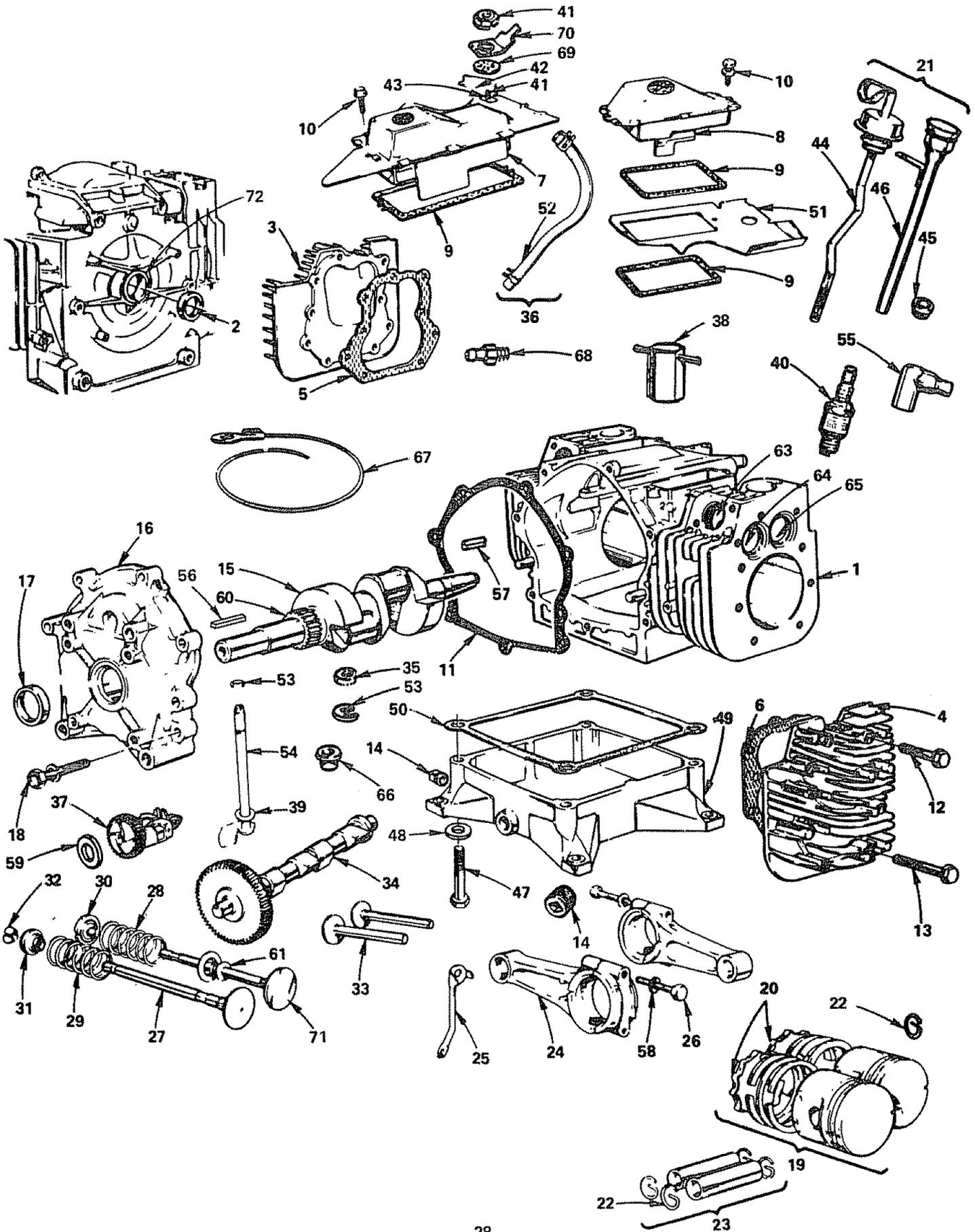
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	280185	Tube - Breather	32	261444	Link - Governor
2	280198	Tube - Intake	33	261531	Link - Speed Control
3	392970	Manifold Ass'y. - Intake	34	261446	Spring - Governor
4	271412	+*Gasket - Carb. Mtg.	35	261563	Spring - Governed Idle
5	270884	*Gasket - 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 Ass'y. (Inc. Key No's. 9 thru 25, 28, 44, 46 thru 51, 61, 63, 64 and 65)	39	393346	Lever Ass'y. - Governor (Inc. Key No's. 40, 55 and 56)
9	393297	Body Ass'y. - Upper Carb. (Inc. Key No's. 10, 13, 18, 23 and 24)	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. (Inc. Key No's. 11, 13, 14, 15 and 63)	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 (Inc. Key No. 44)	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 (Inc. Key No. 43)
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
			67	93897	Screw - Casing Clamp
			68	394358	Filter - Fuel (In Fuel Pipe)
			69	299146	Line - Fuel (28")
			70	93053	Clamp - Fuel Pipe
			71	394501	Gasket Set
			---	393397	Repair Kit - Pump
			---	394502	Carburetor Overhaul Kit

\*INC. IN GASKET SET - 394501  
+INC. IN CARBURETOR OVERHAUL KIT - 394502  
†INCLUDED IN CARBURETOR OVERHAUL KIT - 394502 & PUMP REPAIR KIT - 393397

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0676-01

## CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP



# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0676-01

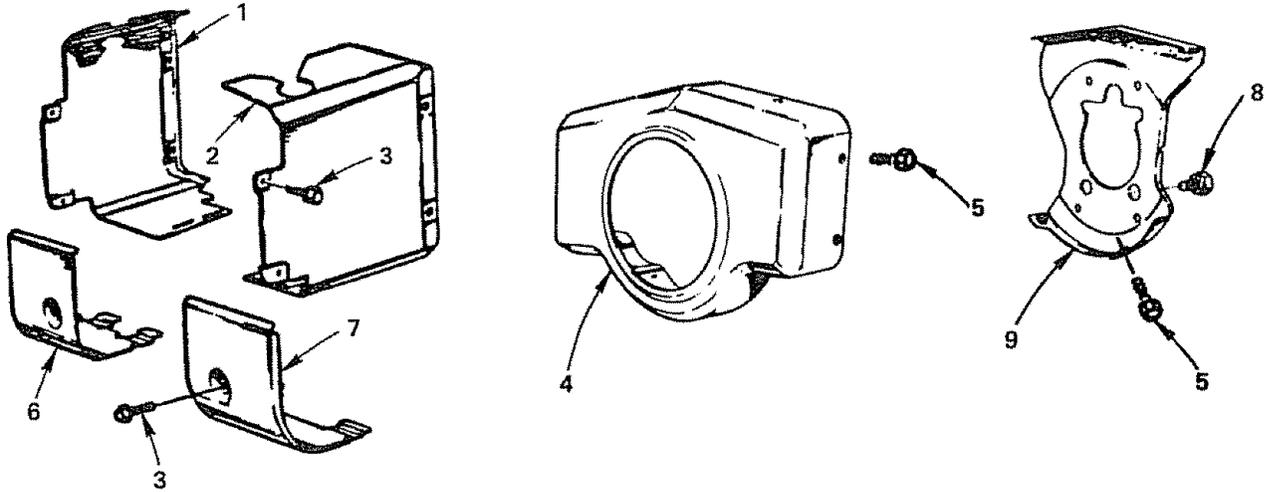
## CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

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 (Inc. Key No. 52)
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 (Inc. Key No's. 20 & 22)	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 (Inc. Key No's. 44, 45 & 46)	64	210940	+Seat - Exhaust Valve (Standard)
23	299691	Pin Assembly - Piston - Standard (Inc. Key No. 22)	65	261463	+Seat - Intake Valve (Standard)
23	391286	Pin Assembly - Piston - .005" O.S.	66	261559	Lower Bushing - Gov.
24	394306	Rod Assembly - Connecting	67	391115	Wire - Ground
25	222480	Dipper - Connecting Rod	68	230318	Connector - Fuel Pipe
26	92909	Screw - Connecting Rod	69	92791	Washer - Lock Shakeproof
27	390420	Valve - Exhaust	70	93722	Terminal - Spade
28	65906	Spring - Intake Valve	71	261528	Valve - Intake
29	26828	Spring - Exhaust Valve	72	261623	+Bearing - Cylinder
30	221596	Retainer - Intake Valve			* INC. IN GASKET SET - 394501
31	292260	Rotocoil - Exhaust			+SPECIAL TOOLS REQUIRED TO IN-STALL
32	93630	Retainer - Exhaust Valve Rotocoil			
33	261368	Tappet - Valve			
34	212337	Gear - Cam			

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724  
 ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0676-01

## MUFFLER, AIR GUIDE AND HOUSING GROUP

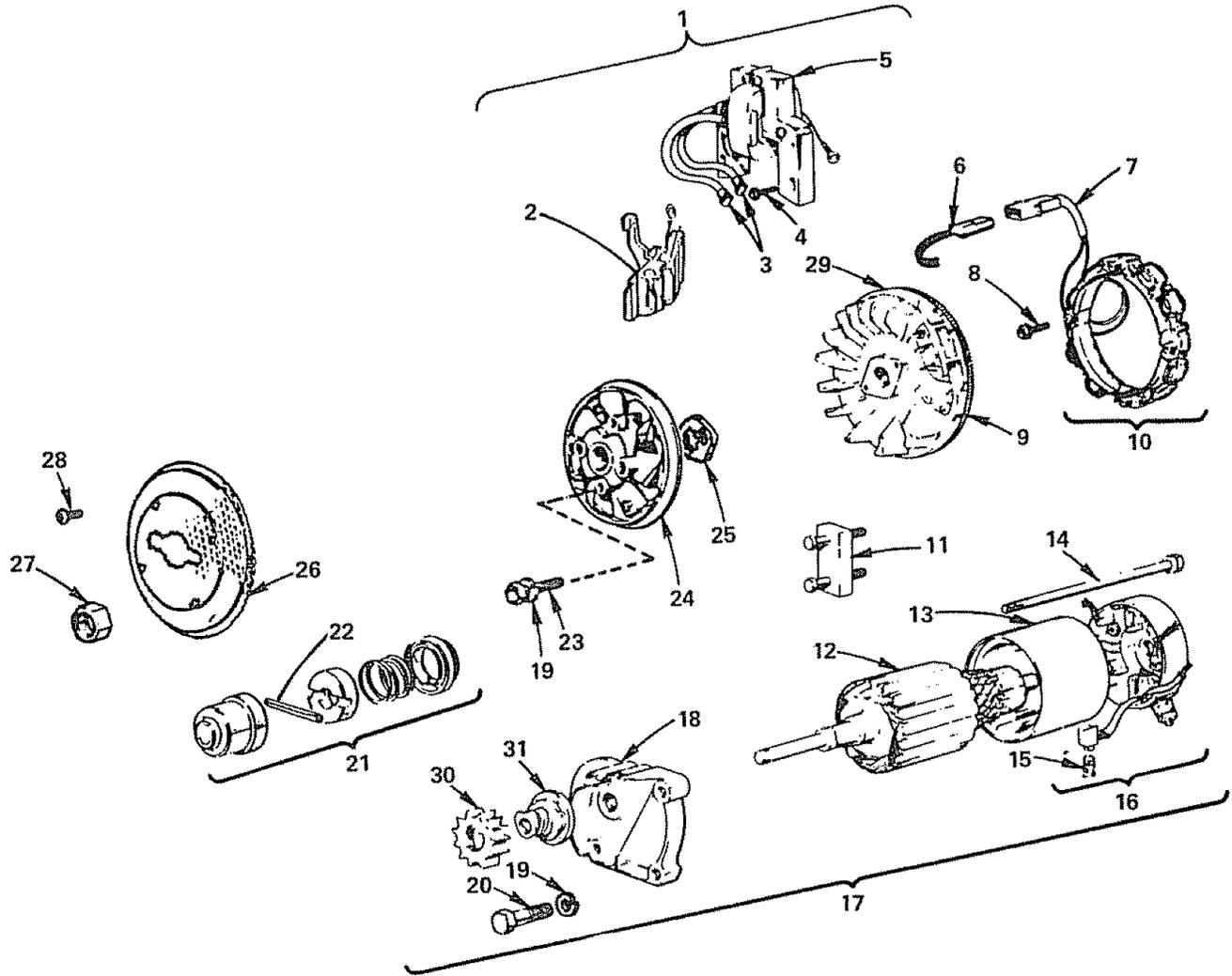


KEY NO.	PART NO.	DESCRIPTION
1	222848	Cover - Air Guide
2	222849	Cover - Air Guide
3	93163	Screw - Sem
4	392681	Housing - Blower
5	93158	Screw - Sem
6	222846	Shield - Cylinder
7	222847	Shield - Cylinder
8	93777	Screw - Hex Hd. (Back Plate to Cylinder)
9	392934	Back Plate Ass'y.

# REPAIR PARTS

SEARS GTV 16 TWIN--MODEL NUMBER 917.253724  
ENGINE--MODEL NUMBER 402417, TYPE NUMBER 0676-01

## STARTER MOTOR GROUP



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	394891	Armature Group (Inc. Key No's. 2, 3, 4 and 5)	15	391705	Brush Set
2	394970	Trigger Coil Ass'y - Magnatron Ignition	16	394674	Commutator End Cap Ass'y. (Inc. Key No. 15)
3	221798	Terminal - Ignition Cable	17	393017	Motor - Starting (Inc. Key No's. 12 thru 15, 16, 18, 19, 20, 30 and 31)
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 (Inc. Key No. 22)
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 (Inc. Key No. 7)	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

**Sears**

**OWNERS  
MANUAL**

**MODEL NO.  
917.253724**

**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".