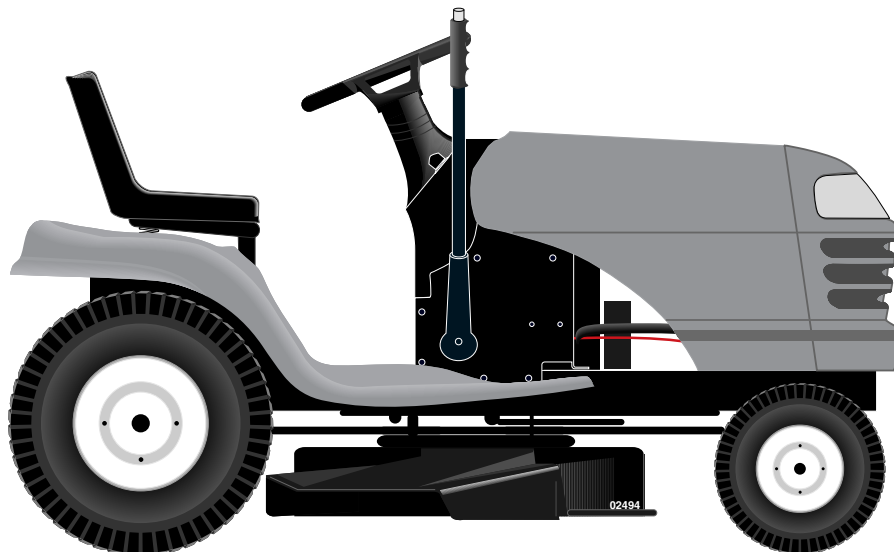


SEARS

OWNER'S MANUAL

**MODEL NO.
944.604931**

**Important:
Read and follow
all Safety Rules
and Instructions
Before Operating
This Equipment**



CRAFTSMAN®

16.5 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR

- **Assembly**
- **Operation**
- **Maintenance**
- **Service and Adjustments**
- **Repair Parts**

SAFETY RULES



Safe Operation Practices for Ride-On Mowers



IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust/engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. *Tall grass can hide obstacles.*
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes *slow* and *gradual*. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.

DO NOT:

- *Do not* turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- *Do not* mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- *Do not* mow on wet grass. Reduced traction could cause sliding.
- *Do not* try to stabilize the machine by putting your foot on the ground.
- *Do not* use grass catcher on steep slopes.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

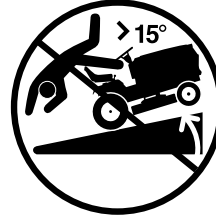
IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.

SAFETY RULES



Safe Operation Practices for Ride-On Mowers



- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.



WARNING: Do not coast down a hill in neutral, you may lose control of the tractor.



WARNING: Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Operate only at the lowest possible speed when on a slope. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.



WARNING: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot contact spark plug.

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PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	4 GALLONS UNLEADED REGULAR
OIL TYPE (API: SF-SJ):	SAE 10W30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/FILTER 1.11QTS W/O FILTER .95QTS
SPARK PLUG: (GAP: .030")	NGK BPR5ES
GROUND SPEED (MPH):	FORWARD: 0 – 5.5 REVERSE: 0 – 2.4
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	15 Amps @ 3600RPM
BATTERY:	AMP/HR: 35 MIN. CCA: 280 CASE SIZE: U1R
BLADE BOLT TORQUE:	27-35 FT. LBS.

CONGRATULATIONS on your purchase of a new tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center/department. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

MAINTENANCE AGREEMENT

A Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

WARNING: This tractor 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.

A spark arrester for the muffler is available through your nearest authorized service centre/department (See REPAIR PARTS section of this manual).

WARRANTY

LIMITED TWO (2) YEAR WARRANTY ON CRAFTSMAN TRACTOR (RIDING EQUIPMENT)

For two (2) years from date of purchase Sears Canada, Inc. will repair or replace at Sears option free of charge parts which are defective as a result of material or workmanship.

FULL ONE (1) YEAR WARRANTY ON BATTERY

For one (1) year from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

COMMERCIAL OR RENTAL USE

Warranty on Riding Equipment used for commercial or rental purposes is limited to ninety (90) days.

This Warranty does **NOT** cover:

1. Pre-delivery set-up.
2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
4. Repairs necessary because of operator abuse or negligence, including damaged jackshaft or mandrel and the failure to operate and maintain the equipment according to the instructions contained in the Owner's Manual.
5. In Home service.

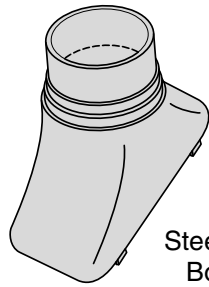
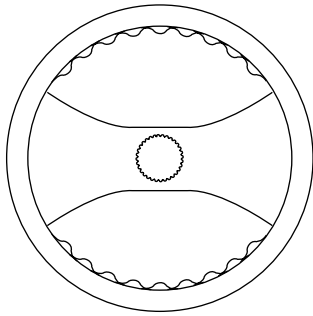
Warranty service is available by returning the Craftsman Riding Equipment to the nearest Sears Service Centre/Department in Canada. This warranty applies only while this product is in use in Canada.

This warranty is in addition to any statutory warranty and does not exclude or limit legal rights you may have but shall run concurrently with applicable provincial legislation. Furthermore, some provinces do NOT allow limitation on how long an implied warranty will last so the above limitations may not apply to you.

SEARS CANADA, INC., TORONTO, ONTARIO M5B 2B8

UNASSEMBLED PARTS

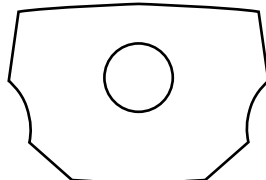
Steering Wheel



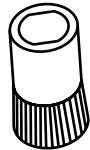
Steering Boot



Steering Extension Shaft

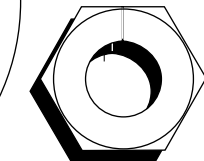
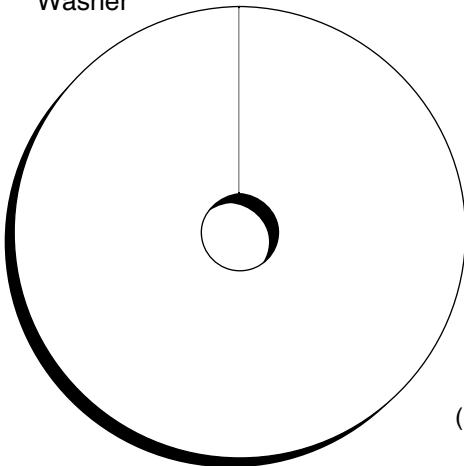


Steering Wheel Insert

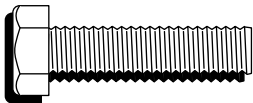


Steering Wheel Adapter

(1) Large Flat Washer



(1) Locknut 1/2-20

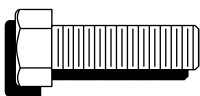


(1) Hex Bolt 1/4-28 x 1-1/4

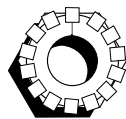


(1) Locknut 1/4-28

Battery

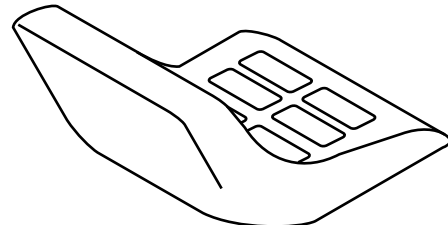


(2) Hex Bolts 1/4-20 x 3/4

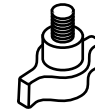


(2) Keys Nuts 1/4-20

Seat



(1) Washer
17/32 x 1-3/16 x 12 Gauge



(1) Knob

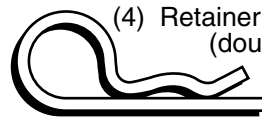
Gauge Wheels



(4) Adjusting Bar



(4) Wheels



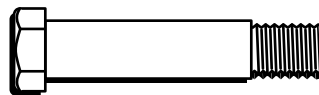
(4) Retainer Springs
(double loop)



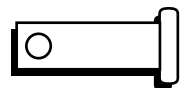
(4) Washers
3/8 x 3/4 x 14 Ga.



(4) Locknut
3/8-16



(4) Shoulder Bolt

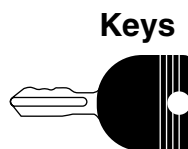


(4) Clevis Pins

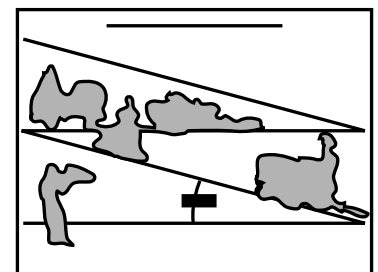


(1) Oil Drain Tube

Slope Sheet



(2) Keys



ASSEMBLY

Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

- | | |
|--------------------|---------------------|
| (1) 3/4" wrench | Pliers |
| (2) 7/16" wrenches | Tire pressure gauge |
| | Utility knife |

When right or left hand is mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel).

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton.
- Cut along dotted lines on all four panels of carton. Remove end panels and lay side panels flat.
- Check for any additional loose parts or cartons and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL (See Fig. 1)

ASSEMBLE EXTENSION SHAFT AND BOOT

- Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 1/4 hex bolt and locknut. Tighten securely.

IMPORTANT: TIGHTEN BOLT AND NUT SECURELY TO 10-12 FT. LBS TORQUE.

- Place tabs of steering boot over tab slots in dash and push down to secure.

INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straight forward.
- Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 1/2 hex nut and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

IMPORTANT: CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR IS TO ROLL OFF SKID.

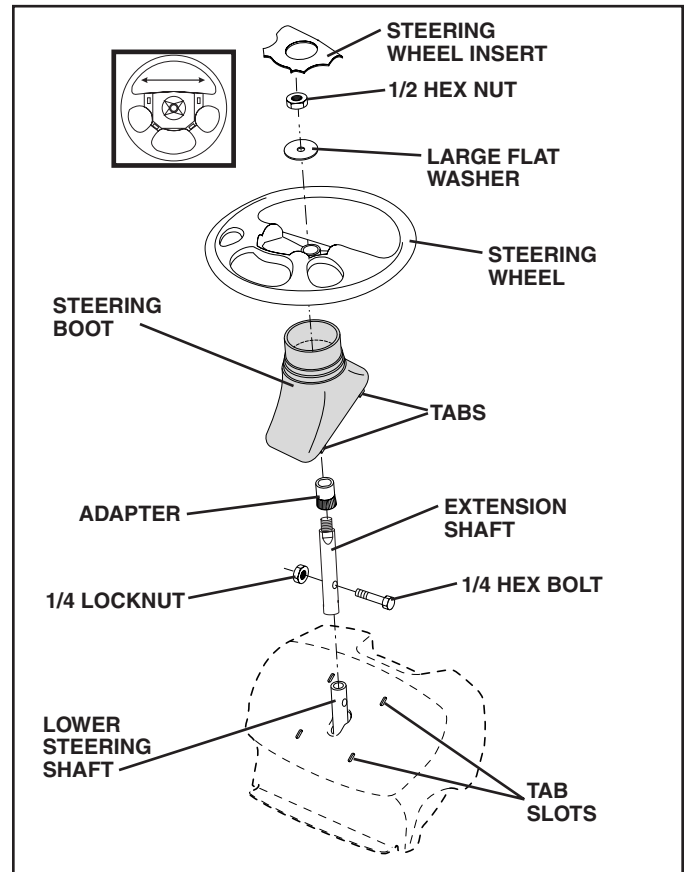


FIG. 1

HOW TO SET UP YOUR TRACTOR

CONNECT BATTERY (See Figs. 2)



CAUTION: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.

Positive terminal must be connected first to prevent sparking from accidental grounding.

- Lift hood to raised position.
- Remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in the Maintenance section of this manual for charging instructions).
- First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely. Slide terminal cover over terminal.

ASSEMBLY

- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.

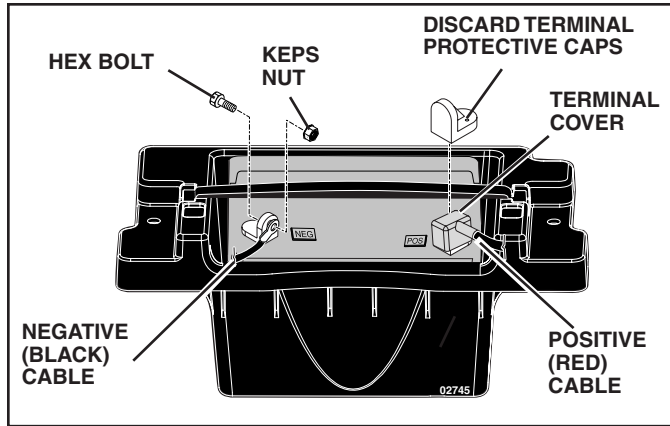


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

- Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan so head of shoulder bolt is positioned over large slotted hole in pan.
- Push down on seat to engage shoulder bolt in slot and pull seat towards rear of tractor.
- Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.

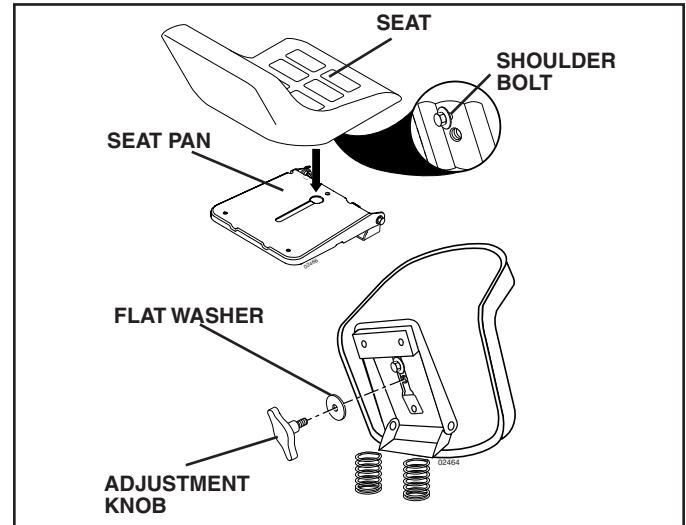


FIG. 3

NOTE: You may now roll or drive your tractor off the skid. Follow the appropriate instruction below to remove the tractor from the skid.

TO ROLL TRACTOR OFF SKID (See Operation section for location and function of controls)

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing brake pedal.
- Place freewheel control in disengaged position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.
- Remove banding holding the deflector shield up against tractor.

TO DRIVE TRACTOR OFF SKID (See Operation section for location and function of controls)

⚠ WARNING: Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position (see "TO TRANSPORT" in Operation section of this manual).
- Sit on seat in operating position, depress brake pedal and set the parking brake.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine has started, move throttle control to idle position.
- Release parking brake.
- Slowly depress forward drive pedal and drive tractor off skid.
- Apply brake to stop tractor and set parking brake.
- Turn ignition key to "STOP" position.

Continue with the instructions that follow.

ASSEMBLY

ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 4A)

The gauge wheels are designed to keep the mower deck in proper position when operating mower. Be sure they are properly adjusted to ensure optimum mower performance.

- Slide gauge wheel bar down into bracket channel. Be sure that gauge wheel bar aligning holes are on top. Assemble gauge wheels as shown using shoulder bolts, 3/8 washers and 3/8-16 center locknuts and tighten securely.
- Adjust gauge wheels before operating mower. See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual.

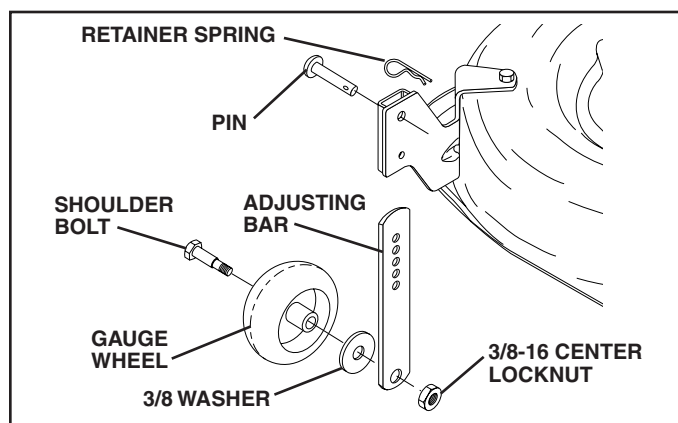


FIG. 4A

INSTALL MULCHER PLATE (See Fig. 4B) (If previously removed)

- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.



CAUTION: Do not remove deflector shield from mower.

TO CONVERT TO BAGGING OR DISCHARGING

Simply remove mulcher plate and store in a safe place. Your mower is now ready for discharging or installation of optional grass catcher accessory.

NOTE: It is not necessary to change blades. The mulcher blades are designed for discharging and bagging also.

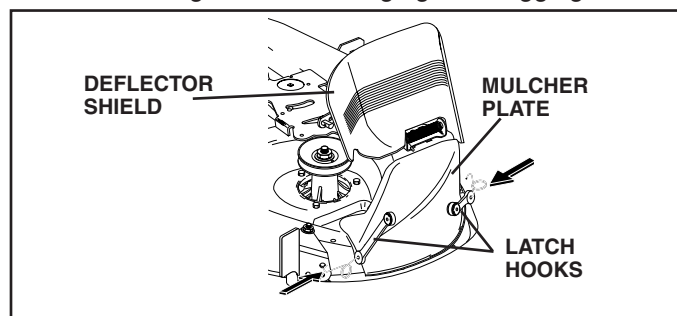


FIG. 4B

CHECK TIRE PRESSURE

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

- Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" section of this manual.

CHECK DECK LEVELNESS

For best cutting results, mower housing should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

✓ CHECKLIST

BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

PLEASE REVIEW THE FOLLOWING CHECKLIST:

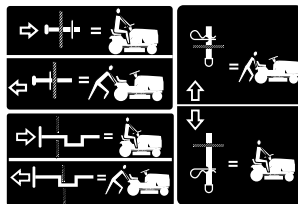
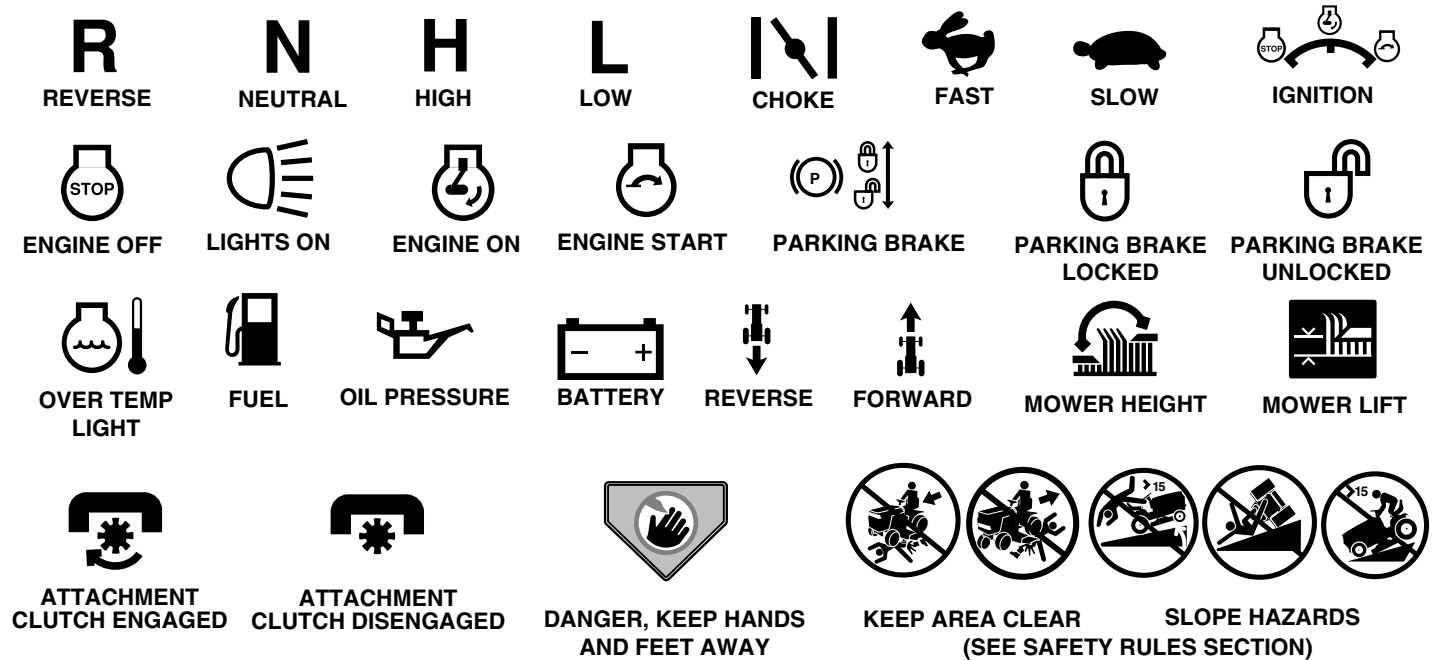
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- ✓ Be sure mower deck is properly leveled side-to-side/front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.
- ✓ Before driving tractor, be sure freewheel control is in drive position.

WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls - their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.
- ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

OPERATION

These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their mean-



FREE WHEEL
(Automatic Models only)



Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage.



DANGER indicates a hazard which, if not avoided, will result in death or serious injury.



WARNING indicates a hazard which, if not avoided, could result in death or serious injury.



CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury.

CAUTION when used **without** the alert symbol, indicates a situation that **could result in damage to the tractor and/or engine.**



HOT SURFACES indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.



FIRE indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

OPERATION

KNOW YOUR TRACTOR

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR

Compare the illustrations with your tractor to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.

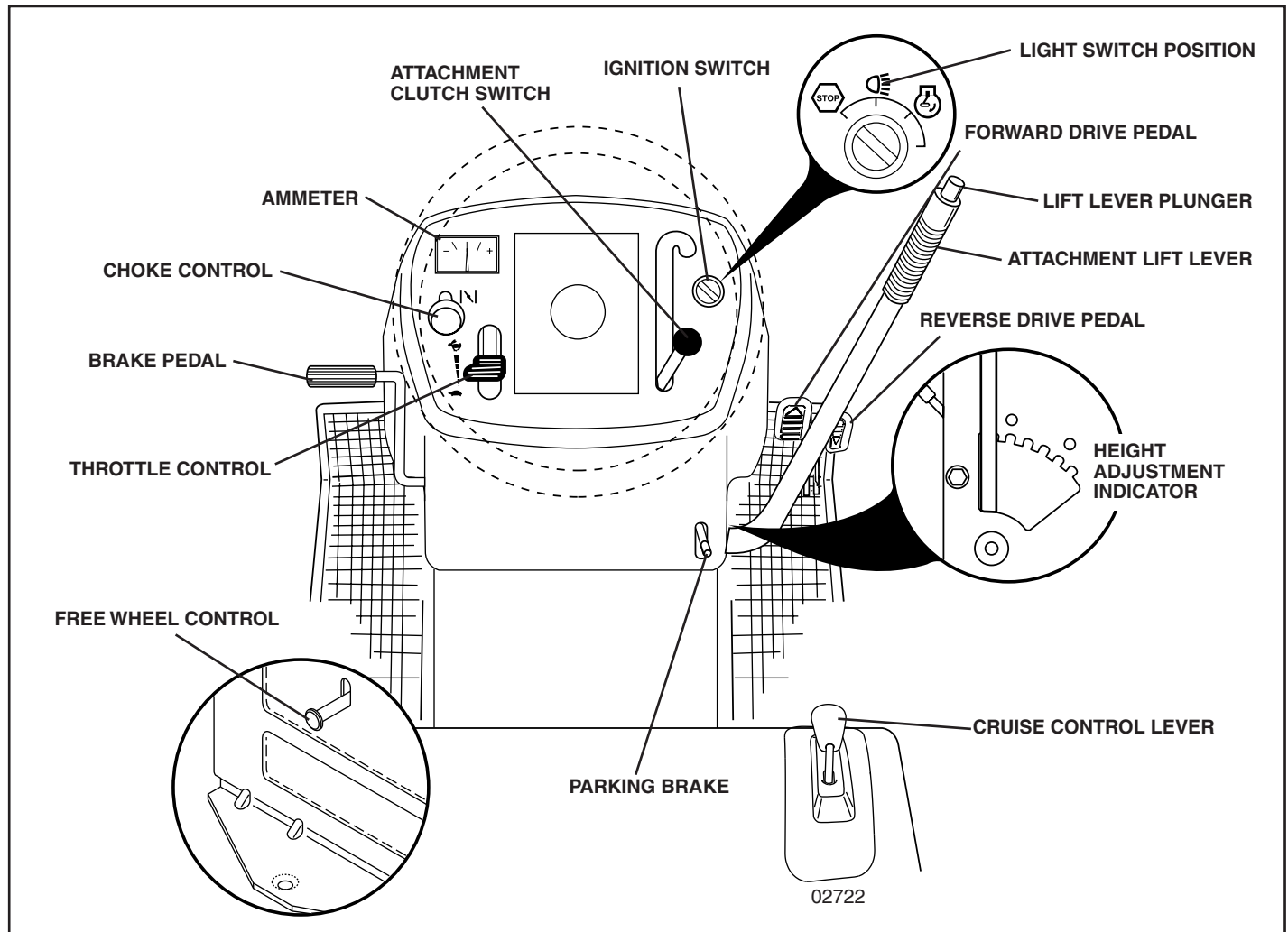


FIG. 5

Our tractors conform to the safety standards of the American National Standards Institute.

ATTACHMENT CLUTCH LEVER - Used to engage the mower blades, or other attachments mounted to your tractor.

LIGHT SWITCH POSITION - Turns the headlights on and off.

THROTTLE CONTROL - Used to control engine speed.

CHOKE CONTROL - Used when starting a cold engine.

BRAKE PEDAL - Used for braking the tractor and starting the engine.

PARKING BRAKE - Locks clutch/brake pedal into the brake position.

FREEWHEEL CONTROL - Disengages transmission for pushing or slowly towing the tractor with the engine off.

AMMETER - Indicates charging (+) or discharging (-) of battery.

ATTACHMENT LIFT LEVER - Used to raise, lower, and adjust the mower deck or other attachments mounted to your tractor.

LIFT LEVER PLUNGER - Used to release attachment lift lever when changing its position.

IGNITION SWITCH - Used for starting and stopping the engine.

FORWARD DRIVE PEDAL - Used for forward movement of tractor.

REVERSE DRIVE PEDAL - Used for reverse movement of tractor.

CRUISE CONTROL LEVER - Used to set forward movement of tractor at desired speed without holding the forward drive pedal.

OPERATION



The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 6)

Your tractor is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.

- Depress brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "ENGAGED" position and release pressure from brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.

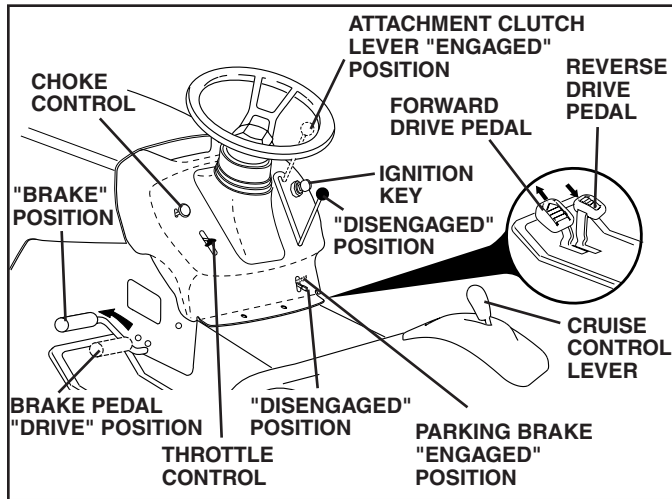


FIG. 6

STOPPING (See Fig. 6)

MOWER BLADES -

- To stop mower blades, move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

- To stop ground drive, depress brake pedal into full "BRAKE" position.

IMPORTANT: FORWARD AND REVERSE DRIVE PEDALS RETURN TO NEUTRAL POSITION WHEN NOT DEPRESSED.

ENGINE -

- Move throttle control to slow position.

NOTE: Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

IMPORTANT: LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN "OFF" WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD).

NOTE: Under certain conditions when tractor is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping tractor on grass areas.



CAUTION: Always stop tractor completely, as described above, before leaving the operator's position; to empty grass catcher, etc.

TO USE THROTTLE CONTROL (See Fig. 6)

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best bagging and mower performance.

TO USE CHOKE CONTROL (See Fig. 6)

Use choke control whenever you are starting a cold engine. Do not use to start a warm engine.

- To engage choke control, pull knob out. Slowly push knob in to disengage.

TO MOVE FORWARD AND BACKWARD (See Fig. 6)

The direction and speed of movement is controlled by the forward and reverse drive pedals.

- Start tractor and release parking brake.
- Slowly depress forward or reverse drive pedal to begin movement. Ground speed increases the further down the pedal is depressed.

TO USE CRUISE CONTROL

The cruise control feature can be used for forward travel only.

SYSTEM CHARACTERISTICS

The cruise control should only be used while mowing or transporting on relatively smooth, straight surfaces. Other conditions such as trimming at slow speeds may cause the cruise control to disengage. Do not use the cruise control on slopes, rough terrain or while trimming or turning.

- With forward drive pedal depressed to desired speed, move cruise control lever forward to "SET" position and hold while lifting your foot off the pedal, then release the cruise control lever.
- To disengage the cruise control, pull the lever backward to "OFF" position, or fully depress the brake pedal.

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 6)

The position of the attachment lift lever determines the cutting height.

- Grasp lift lever.
- Press plunger with thumb and move lever to desired position.

OPERATION

The cutting height range is approximately 1-1/2 to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

TO ADJUST GAUGE WHEELS (See Fig. 7)

Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions.

NOTE: Adjust gauge wheels with tractor on a flat level surface.

- Adjust mower to desired cutting height (See "TO ADJUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- Remove retainer spring and clevis pin which secure each gauge wheel bar.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pin. Gauge wheels should be slightly off the ground.
- Replace retainer spring into clevis pin.
- Be sure all gauge wheels are in the same setting.

IMPORTANT: BE SURE TO READJUST GAUGE WHEELS IF YOU CHANGE THE CUTTING HEIGHT OF THE MOWER DECK.

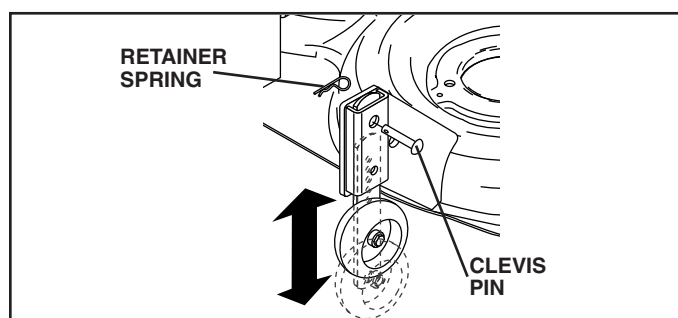


FIG. 7

TO OPERATE MOWER (See Fig. 8)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting off when operating your equipment on rough, rolling terrain or hills.

- Select desired height of cut.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES - disengage attachment clutch control.



CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the deflector shield in place.

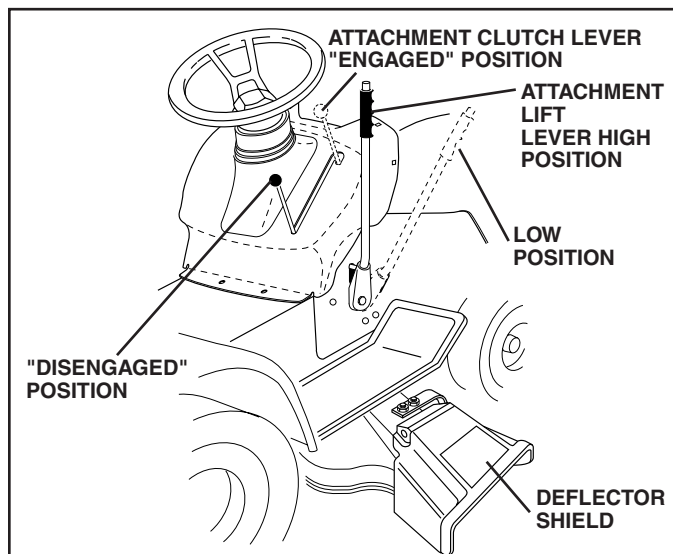


FIG. 8

TO OPERATE ON HILLS



WARNING: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If stopping is absolutely necessary, push brake pedal quickly to brake position and engage parking brake.
- To restart movement, slowly release parking brake and brake pedal.
- Slowly depress appropriate drive pedal to slowest setting.
- Make all turns slowly.

TO TRANSPORT (See Figs. 5 and 9)

When pushing or towing your tractor, be sure to disengage transmission by placing freewheel control in freewheeling position. Free wheel control is located at the rear drawbar of tractor.

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control out and into the slot and release so it is held in the disengaged position.
- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

NOTE: To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

OPERATION

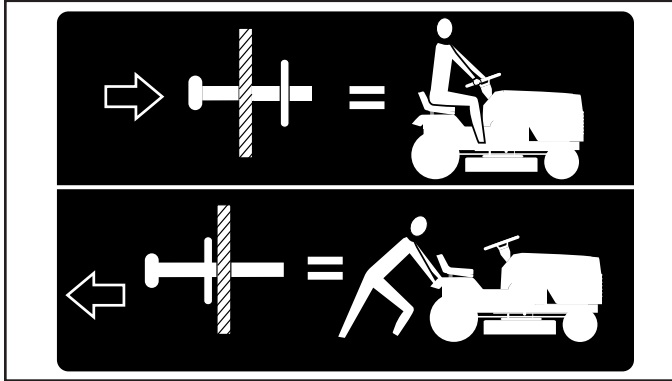


FIG. 9

TOWING CARTS AND OTHER ATTACHMENTS

Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.

- Check engine oil with tractor on level ground.
- Unthread and remove oil fill cap/dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

- Fill fuel tank to bottom of filler neck. Do not overfill. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.



CAUTION: Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F (0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

CAUTION: Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

TO START ENGINE (See Fig. 5)

When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress brake pedal and set parking brake.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to fast position
- Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

NOTE: Before starting, read the warm and cold starting procedures below.

- Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, push choke control in, wait a few minutes and try again. If engine still does not start, pull the choke control out and retry.

WARM WEATHER STARTING (50° F and above)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50° F and below)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.

OPERATION

AUTOMATIC TRANSMISSION WARM UP

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
 - Be sure the tractor is on level ground.
 - Release the parking brake and let the brake slowly return to operating position.
 - Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can be used during the engine warm-up period after the transmission has been warmed up and may require the choke control be pulled out slightly.

NOTE: If at a high altitude (above 3000 feet) or in cold temperatures (below 32 F) the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

PURGE TRANSMISSION



CAUTION: Never engage or disengage freewheel lever while the engine is running.

To ensure proper operation and performance, it is recommended that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor.

IMPORTANT: SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR.

- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. Disengage parking brake
- Depress forward drive pedal to full forward position, hold for five (5) seconds and release pedal. Depress reverse drive pedal to full reverse position, hold for five (5) seconds and release pedal. Repeat this procedure three (3) times.

NOTE: During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- Shut- off engine and set parking brake.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. Disengage parking brake.

- Drive tractor forward for approximately five feet then backwards for five feet. Repeat this driving procedure three times.

Your transmission is now purged and now ready for normal operation.

MOWING TIPS

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 10).

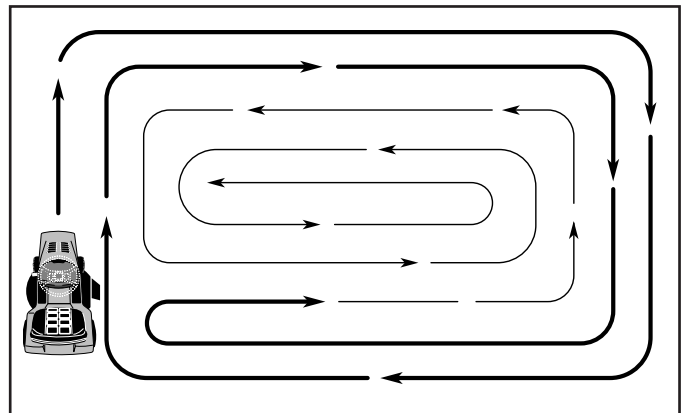


FIG. 10

- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- **Always operate engine at full throttle when mowing** to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

OPERATION

MULCHING MOWING TIPS

IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. CLEAN AFTER EACH USE.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried, the newly cut area will not be exposed to direct sunlight.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 11). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

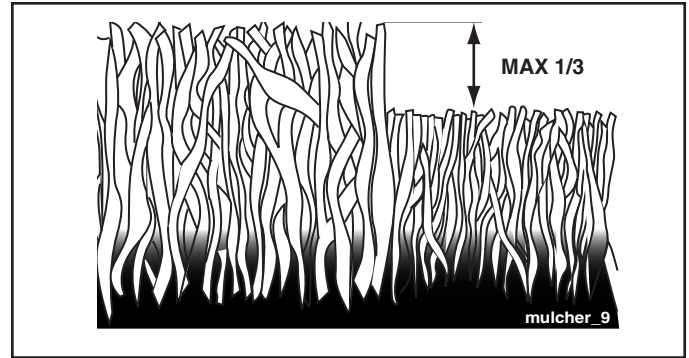


FIG. 11

- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across (perpendicular) to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

MAINTENANCE

MAINTENANCE SCHEDULE		SERVICE DATES						
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		BEFORE EACH USE	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE
TRACTOR	Check Brake Operation	✓	✓					
	Check Tire Pressure	✓	✓					
	Check Operator Presence and Interlock Systems	✓						
	Check for Loose Fasteners	✓			✓ ⁵	✓		
	Sharpen/Replace Mower Blades			✓ ³				
	Lubrication Chart			✓ ³		✓		
	Check Battery Level			✓ ⁴				
	Clean Battery and Terminals			✓		✓		
	Check Transaxle Cooling			✓				
	Check V-Belts				✓			
ENGINE	Check Engine Oil Level	✓	✓					
	Change Engine Oil (with oil filter)				✓ ^{1,2}	✓		
	Change Engine Oil (without oil filter)			✓ ^{1,2}		✓		
	Clean Air Filter			✓ ²				
	Clean Air Screen			✓ ²				
	Inspect Muffler/Spark Arrester			✓				
	Replace Oil Filter (If equipped)				✓ ^{1,2}			
	Clean Engine Cooling Fins				✓ ²			
	Replace Spark Plug				✓	✓		
	Replace Air Filter Paper Cartridge				✓ ²			
	Replace Fuel Filter					✓		

1 - Change more often when operating under a heavy load or in high ambient temperatures.
2 - Service more often when operating in dirty or dusty conditions.

3 - Replace blades more often when mowing in sandy soil.
4 - Not required if equipped with maintenance-free battery.
5 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your tractor.

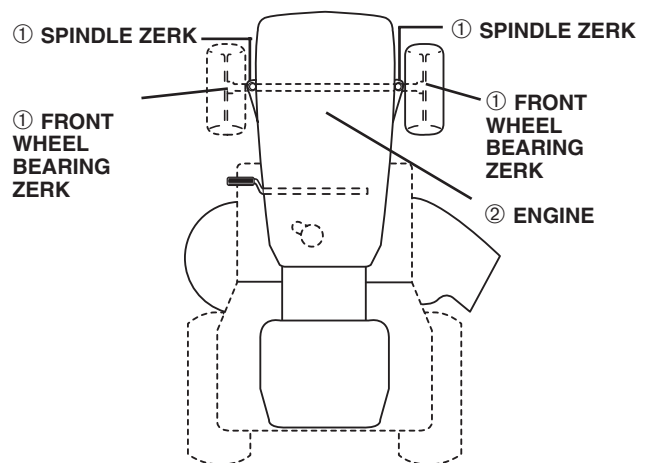
At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

- At least once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.

LUBRICATION CHART



- ① GENERAL PURPOSE GREASE
- ② REFER TO MAINTENANCE "ENGINE" SECTION

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

MAINTENANCE

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" section of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

OPERATOR PRESENCE SYSTEM

Be sure operator presence and interlock systems are working properly. If your tractor does not function as described, repair the problem immediately.

- The engine should not start unless the brake pedal is fully depressed and attachment clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

BLADE CARE

For best results mower blades must be kept sharp. Replace bent or damaged blades.

BLADE REMOVAL (See Fig. 12)

- Raise mower to highest position to allow access to blades.
- Remove blade bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.

IMPORTANT: TO ENSURE PROPER ASSEMBLY, CENTER HOLE IN BLADE MUST ALIGN WITH STAR ON MANDREL ASSEMBLY.

- Reassemble blade bolt, lock washer and flat washer in exact order as shown.
- Tighten blade bolt securely (27-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS HEAT TREATED. IF BOLT NEEDS REPLACING, REPLACE ONLY WITH APPROVE BOLT SHOWN IN THE REPAIR PARTS.

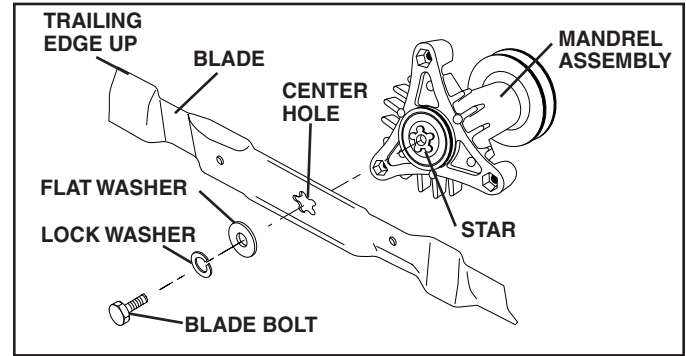


FIG. 12

TO SHARPEN BLADE (See Fig. 13)

NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer.)

NOTE: Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

- Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

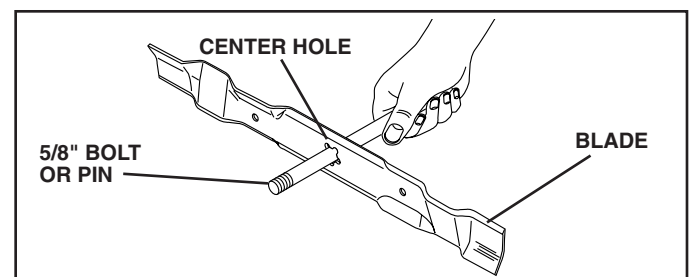


FIG. 13

BATTERY

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.

NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

MAINTENANCE

TO CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the battery and terminals can cause the battery to “leak” power.

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See “CONNECT BATTERY” in the Assembly section of this manual).

V-BELTS

Check V-belts for deterioration and wear after 100 hours of operation and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

TRANSAXLE COOLING

The transmission fan and cooling fins should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins.

TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department.

ENGINE

LUBRICATION

Only use high quality detergent oil rated with API service classification SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature.

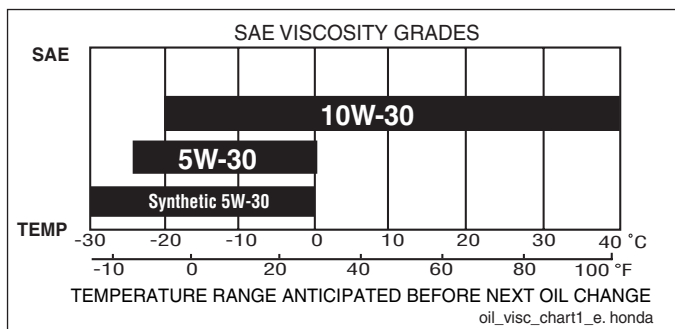


FIG. 14

Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of operation.

TO CHANGE ENGINE OIL (See Figs. 14 and 15)

Determine temperature range expected before oil change. All oil must meet API service classification SF-SJ.

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove yellow cap from end of drain valve and install the drain tube onto the fitting.

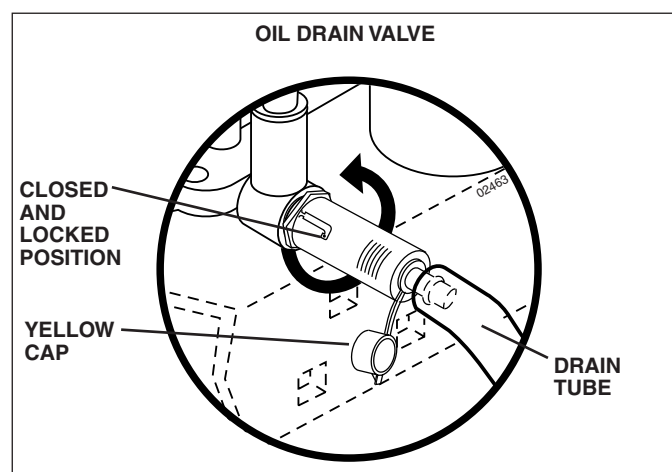


FIG. 15

- Unlock drain valve by pushing inward and turning counterclockwise.
- To open, pull out on the drain valve.
- After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- Remove the drain tube and replace the cap onto to the bottom fitting of the drain valve.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see “PRODUCT SPECIFICATIONS” section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at “FULL” line on dipstick. Tighten cap onto the tube securely when finished.

MAINTENANCE

CLEAN AIR SCREEN

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

CLEAN AIR INTAKE/COOLING AREAS

To insure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled.

NOTE: Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage due to overheating.

ENGINE OIL FILTER

Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year.

AIR FILTER (See Fig. 16)

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

- Loosen knobs and remove cover.

TO SERVICE PRE-CLEANER

- Remove foam pre-cleaner from cover.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth. Allow it to dry.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE PPAER CARTRIDGE

- Replace a dirty, bent, or damaged cartridge. Handle new cartridge carefully; do not use if the rubber seal is damaged.

NOTE: Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge.

- Carefully remove cartridge and grid to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
- Separate the grid from paper cartridge and gently tap pleated side of cartridge to dislodge dirt. Never try to brush off dirt; brushing will force dirt into the fibers of the paper element.
- Install the grid over the paper cartridge, then install the assembly into the air cleaner base. The grid must be placed between the foam pre-cleaner and the paper cartridge to prevent oil from transferring to the paper element.
- Reinstall the pre-cleaner (cleaned and oiled) into the cover.
- Reinstall air cleaner cover and secure by tightening knobs.

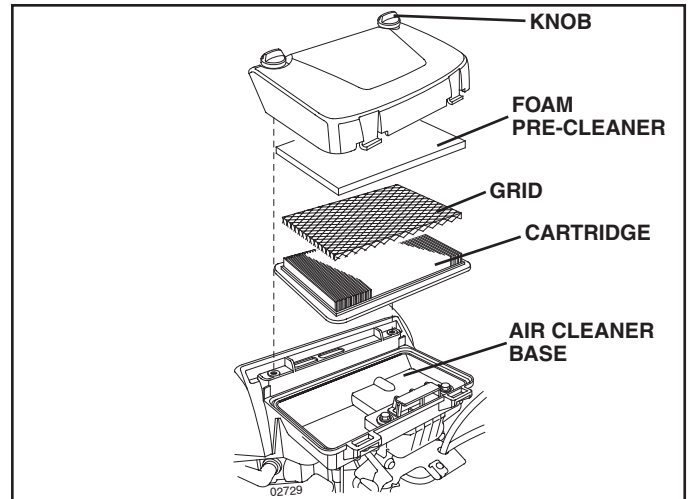


FIG. 16

MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" section of this manual.

IN-LINE FUEL FILTER (See Fig. 17)

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

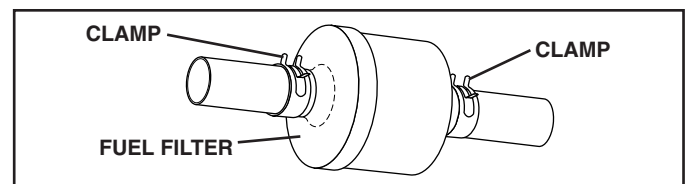


FIG. 17

CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose or pressure washer to clean your tractor unless the engine and transmission are covered to keep water out. Water in engine or transmission will shorten the useful life of your tractor. Use compressed air or a leaf blower to remove grass, leaves and trash from tractor and mower.

SERVICE AND ADJUSTMENTS



WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

- Depress brake pedal fully and set parking brake.
- Place attachment clutch in “DISENGAGED” position.
- Turn ignition key to “STOP” and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

TRACTOR

TO REMOVE MOWER (See Fig. 18)

Mower will be easier to remove from the right side of tractor.

- Place attachment clutch in “DISENGAGED” position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Remove small retainer spring, and remove clutch spring off pulley bolt.
- Remove large retainer spring, slide collar off and push housing guide out of bracket.
- Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.

- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE FRONT LINKS AND HOOK THE CLUTCH SPRING INTO SQUARE HOLE IN FRAME.

TO INSTALL MOWER (See Fig. 18)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with deflector shield to right side of tractor.
- Lower lift lever to its lowest position.
- Connect front links to mower deck and secure with retainer springs..
- Connect suspension arms to rear deck brackets and secure with retainer springs.

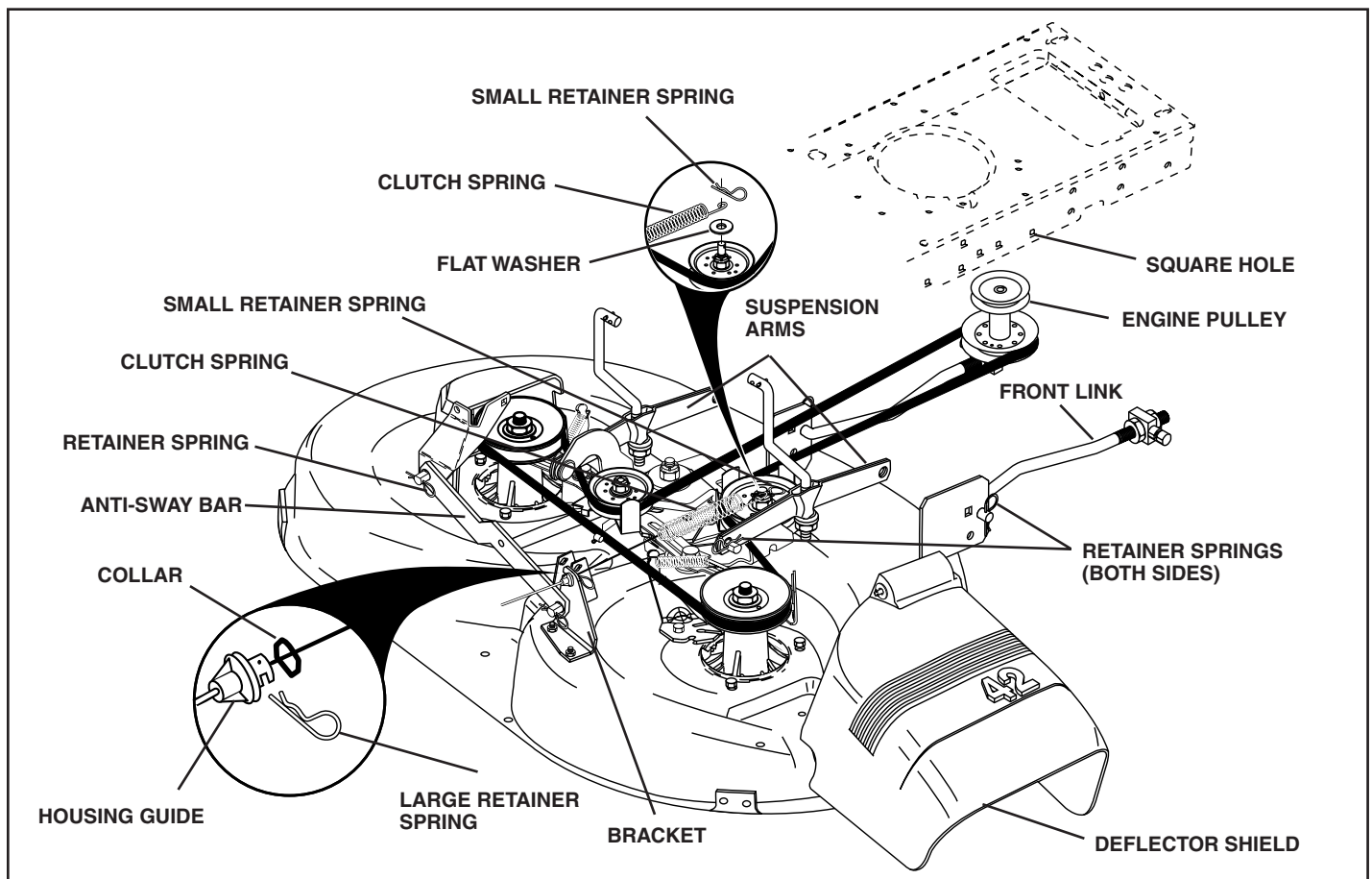


FIG. 18

SERVICE AND ADJUSTMENTS

- Connect anti-swaybar to chassis bracket and secure with retainer spring.
- Push clutch cable housing guide into bracket, slide collar onto guide and secure with large retainer spring.
- Place flat washer and clutch spring on idler pulley bolt and secure with small retainer spring.
- Install belt onto engine pulley.

TO LEVEL MOWER HOUSING

Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 19 and 20)

- Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

NOTE: Each full turn of adjustment nut will change mower height about 1/8".

- Recheck measurements after adjusting.

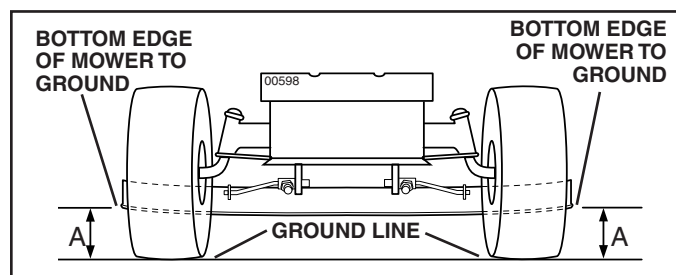


FIG. 19

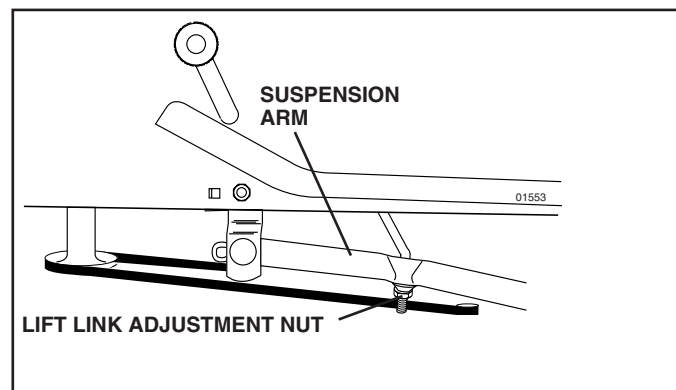


FIG. 20

FRONT-TO-BACK ADJUSTMENT (See Figs. 21 and 22)

IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns. The two front links must remain equal in length.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nut "F" against trunnion on both front links.

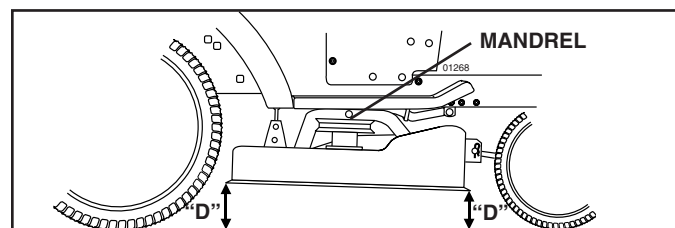


FIG. 21

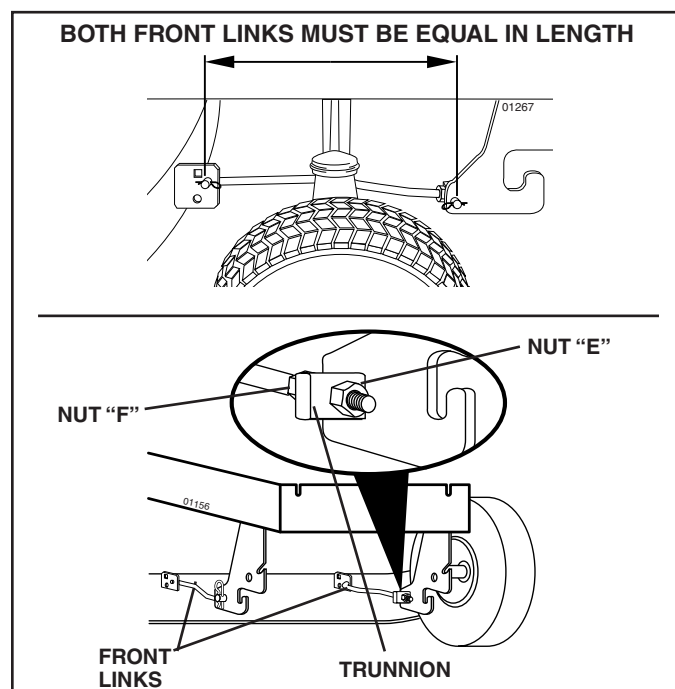


FIG. 22

SERVICE AND ADJUSTMENTS

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 23)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of manual).
- Work belt off both mandrel pulleys and idler pulleys.
- Pull belt away from mower.

BELT INSTALLATION -

- Work belt around both mandrel pulleys and idler pulleys.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install mower (See "To Install Mower" in this section of manual).

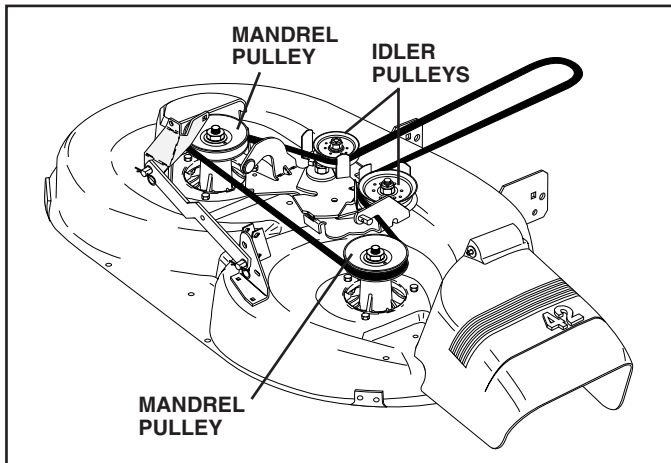


FIG. 23

TO CHECK AND ADJUST BRAKE (See Fig. 24)

Your tractor is equipped with an adjustable brake system which is mounted on the right side of the transaxle.

If tractor requires more than five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be checked and adjusted.

TO CHECK BRAKE

- Park tractor on a level, dry concrete or paved surface, depress brake pedal all the way down and engage parking brake.
- Disengage transmission by placing freewheel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the disengaged position.

The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, the brake needs to be adjusted or the pads need to be replaced.

TO ADJUST BRAKE

- Depress brake pedal all the way down and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". Retighten jam nut against nut "A".
- Engage transmission by placing freewheel control in "transmission engaged" position.
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a qualified service center.

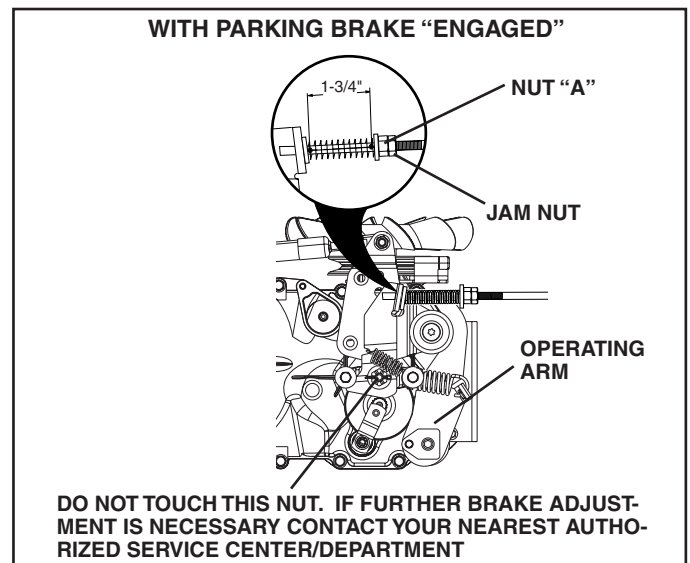


FIG. 24

SERVICE AND ADJUSTMENTS

TO REPLACE MOTION DRIVE BELT (See Fig. 25)

Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

BELT REMOVAL -

- Remove mower (See "TO REMOVE MOWER" in this section of manual).

NOTE: Observe entire motion drive belt and position of all belt guides and keepers.

- Remove belt from stationary idler and clutching idler.
- Remove belt downward from around engine pulley.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Remove belt from center span keeper and pull belt away from tractor.

BELT INSTALLATION -

- Carefully work new belt down around transmission cooling fan and onto the input pulley.
- Slide belt into the center span keeper.
- Pull belt toward front of tractor and roll around the top groove of engine pulley.
- Install belt through stationary idler and clutching idler.
- Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- Install mower (See "TO INSTALL MOWER" in this section of manual).

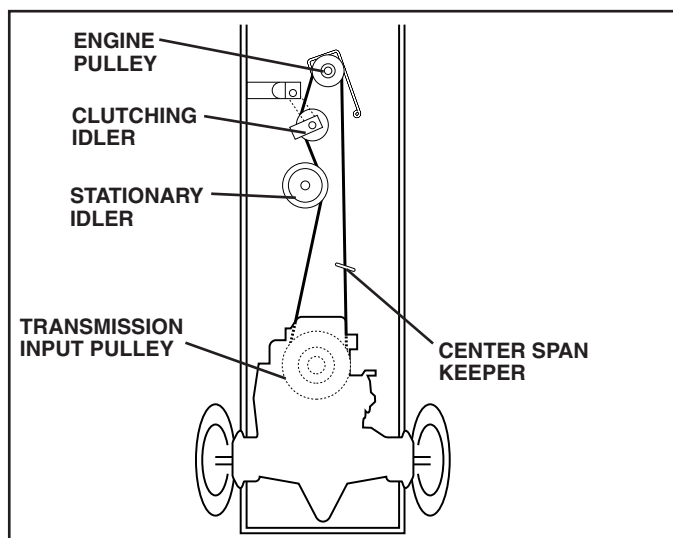


FIG. 25

TRANSMISSION REMOVAL/REPLACEMENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGE TRANSMISSION" in the Operation section of this manual.

TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department.

TO REMOVE WHEEL FOR REPAIRS (See Fig. 26)

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

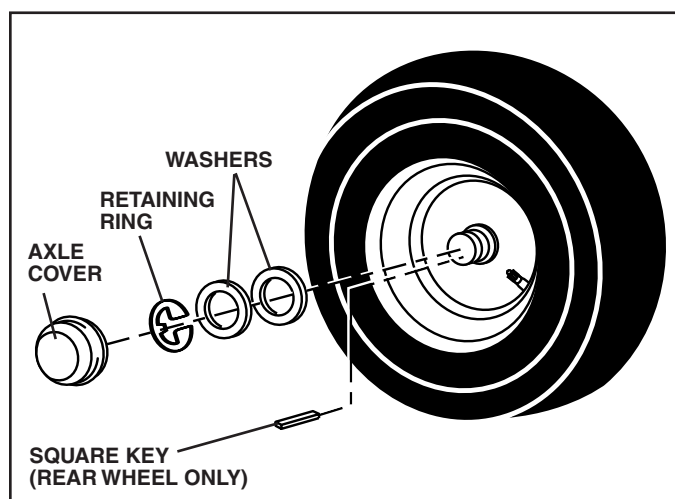


FIG. 26

SERVICE AND ADJUSTMENTS

TO START ENGINE WITH A WEAK BATTERY (See Fig. 27)



WARNING: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. (See "BATTERY" in the Maintenance section of this manual).

If "jumper cables" are used for emergency starting, follow this procedure:

IMPORTANT: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

TO ATTACH JUMPER CABLES -

- Connect one end of the RED cable to the POSITIVE (+) terminal of each battery(A-B), taking care not to short against tractor chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal (C) of fully charged battery.
- Connect the other end of the BLACK cable (D) to good chassis ground, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from chassis and then from the fully charged battery.
- RED cable last from both batteries.

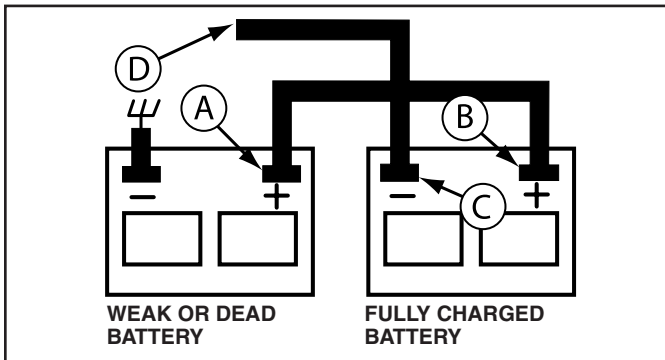


FIG. 27

TO REPLACE HEADLIGHT BULB

- Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- Close hood.

INTERLOCKS AND RELAYS

Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

- Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 20 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 28)

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- To replace, reverse above procedure.

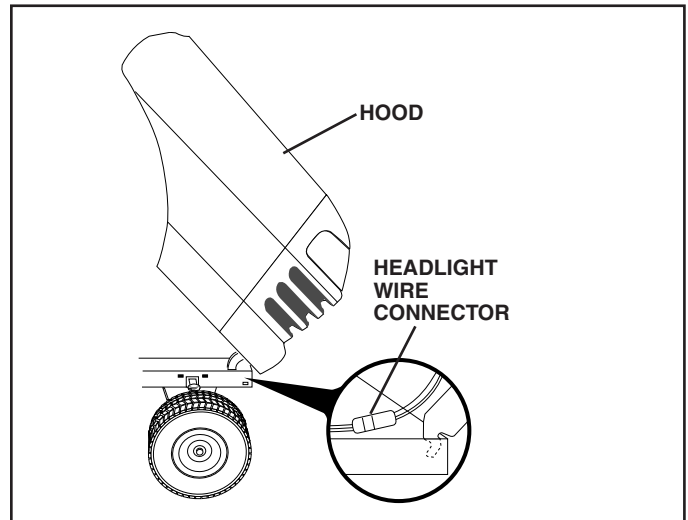


FIG. 28

SERVICE AND ADJUSTMENTS

ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

CARBURETOR

Your carburetor is not adjustable. If your engine does not operate properly due to suspected carburetor problems, take your tractor to a Sears or other qualified service center for repair and/or adjustment. High speed stop is factory adjusted. Do not adjust - damage may result.

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT A SEARS OR OTHER QUALIFIED SERVICE CENTER,, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.



WARNING: Never store the tractor 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.

TRACTOR

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See “CLEANING” in the Maintenance section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see “TO CLEAN BATTERY AND TERMINALS” in the Maintenance section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

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

- Empty the fuel tank by starting the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not empty the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See “ENGINE” in the Maintenance section of this manual).

CYLINDER(S)

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to “START” position for a few seconds to distribute oil.
- Replace with new spark plug(s).

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your tractor to rust.

IMPORTANT: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

TROUBLESHOOTING POINTS

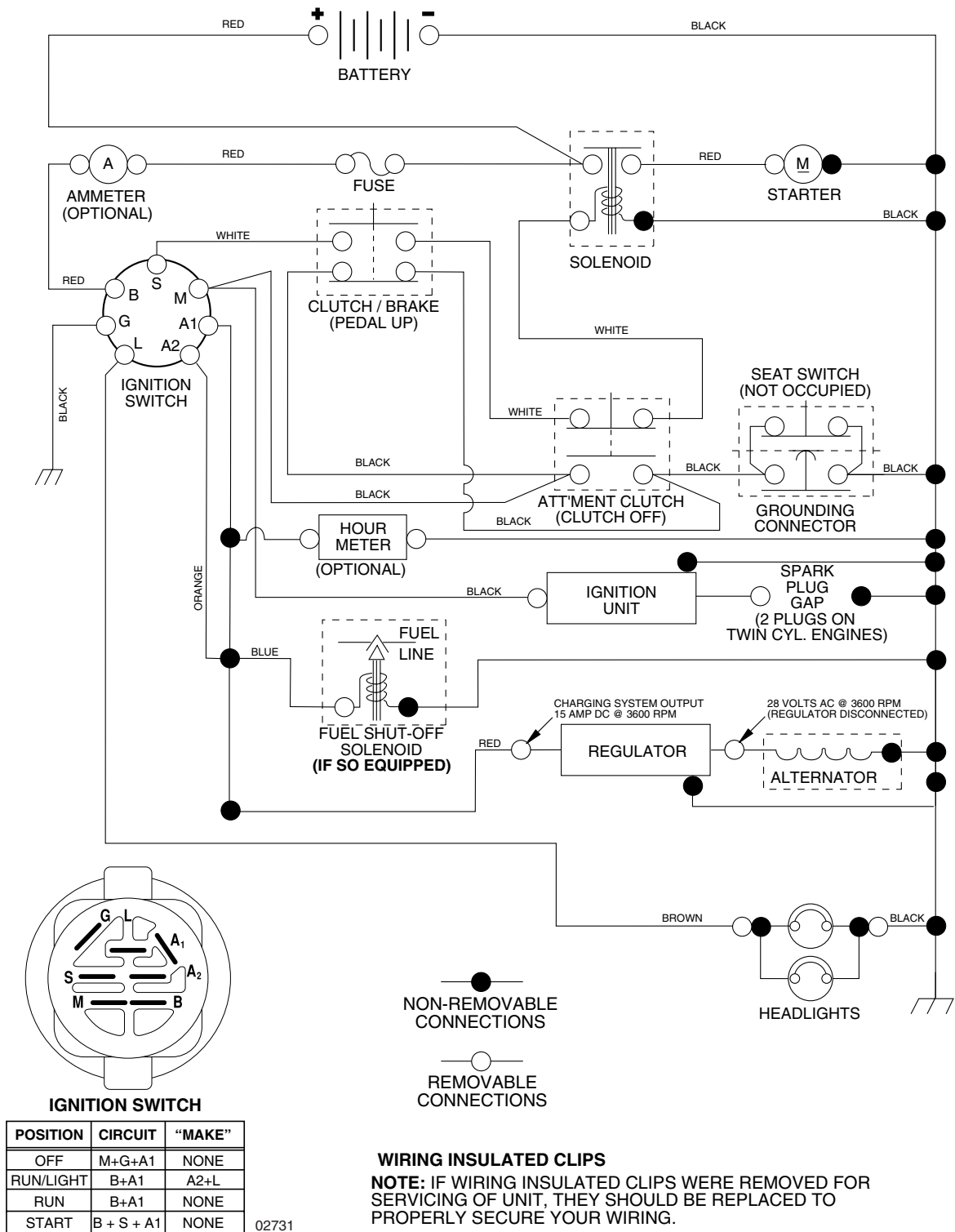
PROBLEM	CAUSE	CORRECTION
Will not start	<ol style="list-style-type: none"> 1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment. 	<ol style="list-style-type: none"> 1. Fill fuel tank. 2. See "TO START ENGINE" in the Operation section. 3. Wait several minutes before attempting to start. 4. Replace spark plug. 5. Clean/replace air filter. 6. Replace fuel filter. 7. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring. 9. See "To Adjust Carburetor" in the Service and Adjustments section. 10. Contact an authorized service center/department.
Hard to start	<ol style="list-style-type: none"> 1. Dirty air filter. 2. Bad spark plug. 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment. 8. Engine valves out of adjustment. 	<ol style="list-style-type: none"> 1. Clean/replace air filter. 2. Replace spark plug. 3. Recharge or replace battery. 4. Replace fuel filter. 5. Empty fuel tank and refill tank with fresh, clean gasoline. 6. Check all wiring. 7. See "TO ADJUST CARBURETOR" in the Service and Adjustments section. 8. Contact an authorized service center/department.
Engine will not turn over	<ol style="list-style-type: none"> 1. Brake pedal not depressed. 2. Attachment clutch is engaged. 3. Weak or dead battery. 4. Blown fuse. 5. Corroded battery terminals. 6. Loose or damaged wiring. 7. Faulty ignition switch. 8. Faulty solenoid or starter. 9. Faulty operator presence switch(es). 	<ol style="list-style-type: none"> 1. Depress brake pedal. 2. Disengage attachment clutch. 3. Recharge or replace battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch. 8. Check/replace solenoid or starter. 9. Contact an authorized service center/department.
Engine clicks but will not start	<ol style="list-style-type: none"> 1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. Faulty solenoid or starter. 	<ol style="list-style-type: none"> 1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.
Loss of power	<ol style="list-style-type: none"> 1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment. 	<ol style="list-style-type: none"> 1. Raise cutting height/reduce speed. 2. Adjust throttle control. 3. Clean underside of mower housing. 4. Clean/replace air filter. 5. Check oil level/change oil. 6. Clean and regap or change spark plug. 7. Replace fuel filter. 8. Empty fuel tank and refill tank with fresh, clean gasoline. 9. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 10. Connect and tighten spark plug wire. 11. Clean engine air screen/fins. 12. Clean/replace muffler. 13. Check all wiring. 14. See "TO ADJUST CARBURETOR" in the Service and Adjustments section. 15. Contact an authorized service center/department.
Excessive vibration	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Bent blade mandrel. 3. Loose/damaged part(s). 	<ol style="list-style-type: none"> 1. Replace blade. Tighten blade bolt. 2. Replace blade mandrel. 3. Tighten loose part(s). Replace damaged parts.

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	1. Faulty operator-safety presence control system.	1. Check wiring, switches and connections. If not corrected, contact an authorized service center/department.
Poor cut - uneven	1. Worn, bent or loose blade. 2. Mower deck not level. 3. Buildup of grass, leaves, and trash under mower. 4. Bent blade mandrel. 5. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.	1. Replace blade. Tighten blade bolt. 2. Level mower deck. 3. Clean underside of mower housing. 4. Replace blade mandrel. 5. Clean around mandrels to open vent holes.
Mower blades will not rotate	1. Obstruction in clutch mechanism. 2. Worn/damaged mower drive belt. 3. Frozen idler pulley. 4. Frozen blade mandrel.	1. Remove obstruction. 2. Replace mower drive belt. 3. Replace idler pulley. 4. Replace blade mandrel.
Poor grass discharge	1. Engine speed too slow. 2. Travel speed too fast. 3. Wet grass. 4. Mower deck not level. 5. Low/uneven tire air pressure. 6. Worn, bent or loose blade. 7. Buildup of grass, leaves and trash under mower. 8. Mower drive belt worn. 9. Blades improperly installed. 10. Improper blades used. 11. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.	1. Place throttle control in "FAST" position. 2. Shift to slower speed. 3. Allow grass to dry before mowing. 4. Level mower deck. 5. Check tires for proper air pressure. 6. Replace/sharpen blade. Tighten blade bolt. 7. Clean underside of mower housing. 8. Replace mower drive belt. 9. Reinstall blades sharp edge down. 10. Replace with blades listed in this manual. 11. Clean around mandrels to open vent holes.
Headlight(s) not working (if so equipped)	1. Switch is "OFF". 2. Bulb(s) or lamp(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse.	1. Turn switch "ON". 2. Replace bulb(s) or lamp(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.
Battery will not charge	1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator.	1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.
Loss of drive	1. Freewheel control in "disengaged" position. 2. Motion drive belt worn, damaged, or broken. 3. Air trapped in transmission during shipment or servicing.	1. Place freewheel control in "engaged" position. 2. Replace motion drive belt. 3. Purge transmission.
Engine "backfires" when turning engine "OFF"	1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.	1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

TRACTOR - - MODEL NUMBER 944.604931

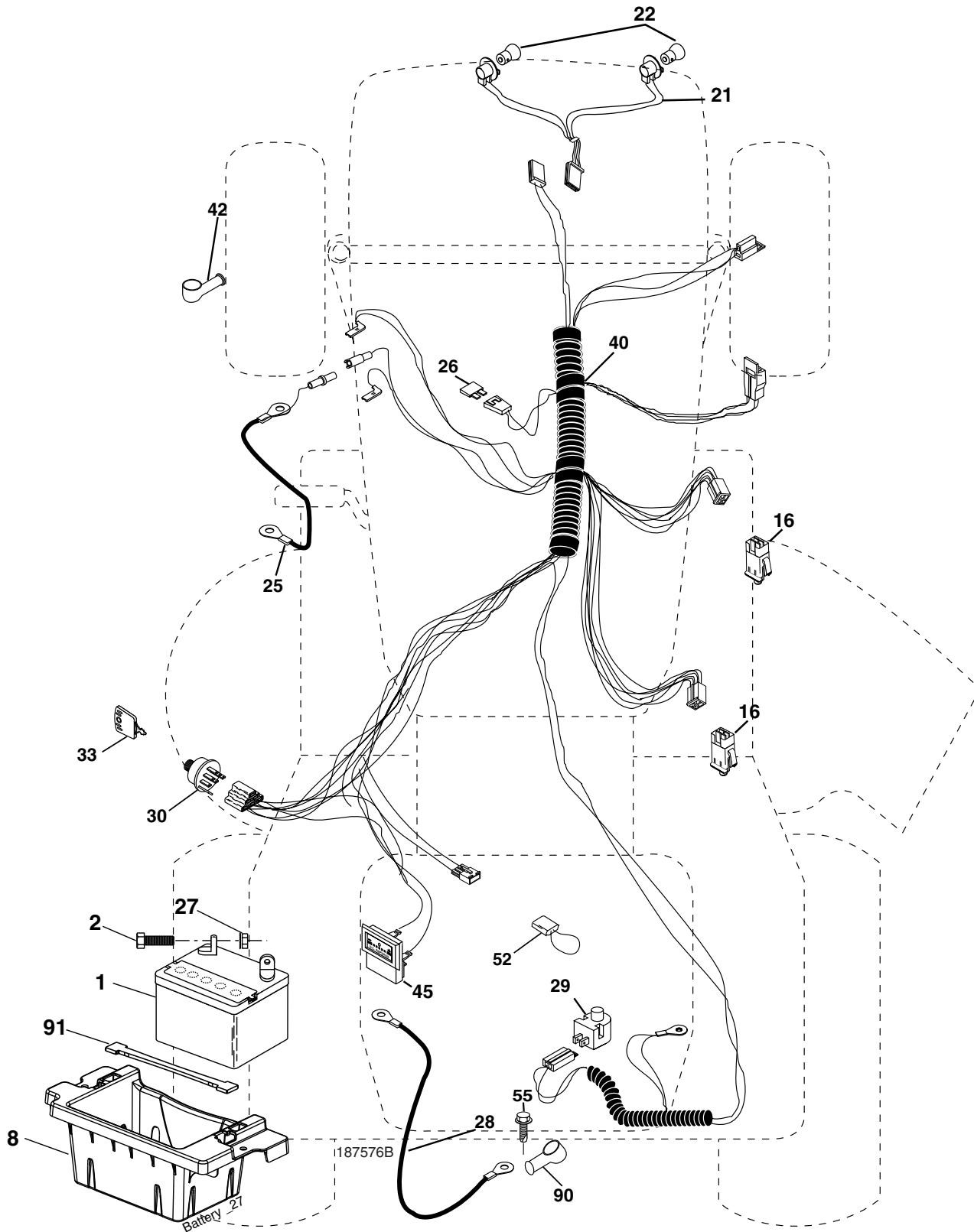
SCHEMATIC



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

ELECTRICAL



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

ELECTRICAL

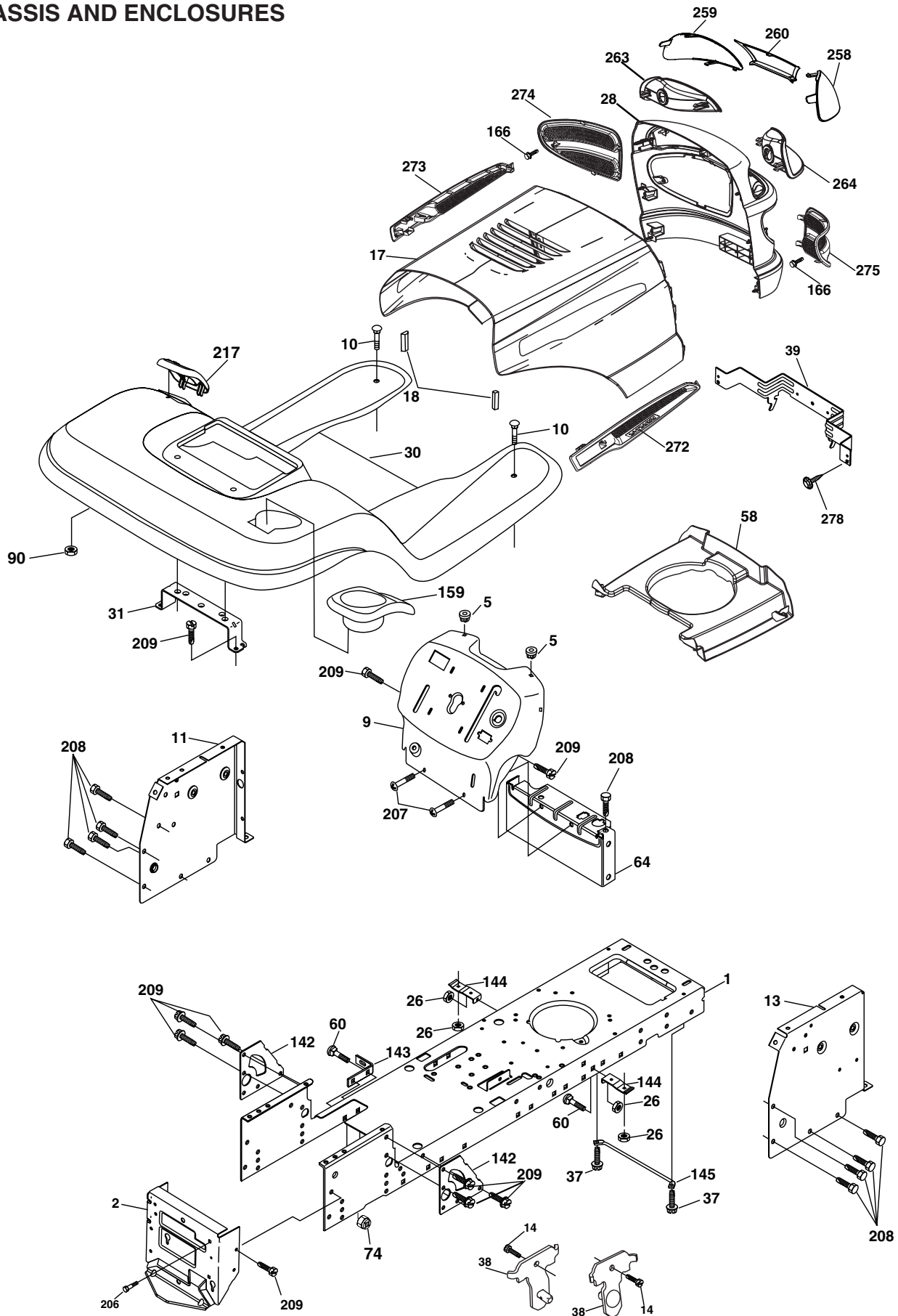
KEY NO.	PART NO.	DESCRIPTION
1	144927	Battery 12 Volt 35 Amp
2	74760412	Bolt Hex Hd 1/4-20unc x 3/4
8	186491	Box Battery
16	176138	Switch Interlock
21	183759	Harness Asm Light W/4152J
22	4152J	Bulb Light #1156
25	178909	Cable Battery 6 Ga Red 25" Intsole
26	175158	Fuse
27	73510400	Nut Keps Hex 1/4-20 Unc
28	145491	Cable Ground 6 Ga 21" black
29	121305X	Switch Plunger Nc Gray
30	175566	Switch Ign 3
33	140403	Key Ign
40	187576	Harness Ign
42	154336	Cover Terminal Red
45	122822X	Ammeter
52	141940	Protection Wire Loop (Hourmeter)
55	17490508	Screw Thdrol 5/16-18 x 1/2
90	180449	Cover Terminal
91	190270	Strap Battery Mount Front

NOTE: All component dimensions give in U.S. inches
1 inch = 25.4 mm.

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

CHASSIS AND ENCLOSURES



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

CHASSIS AND ENCLOSURES

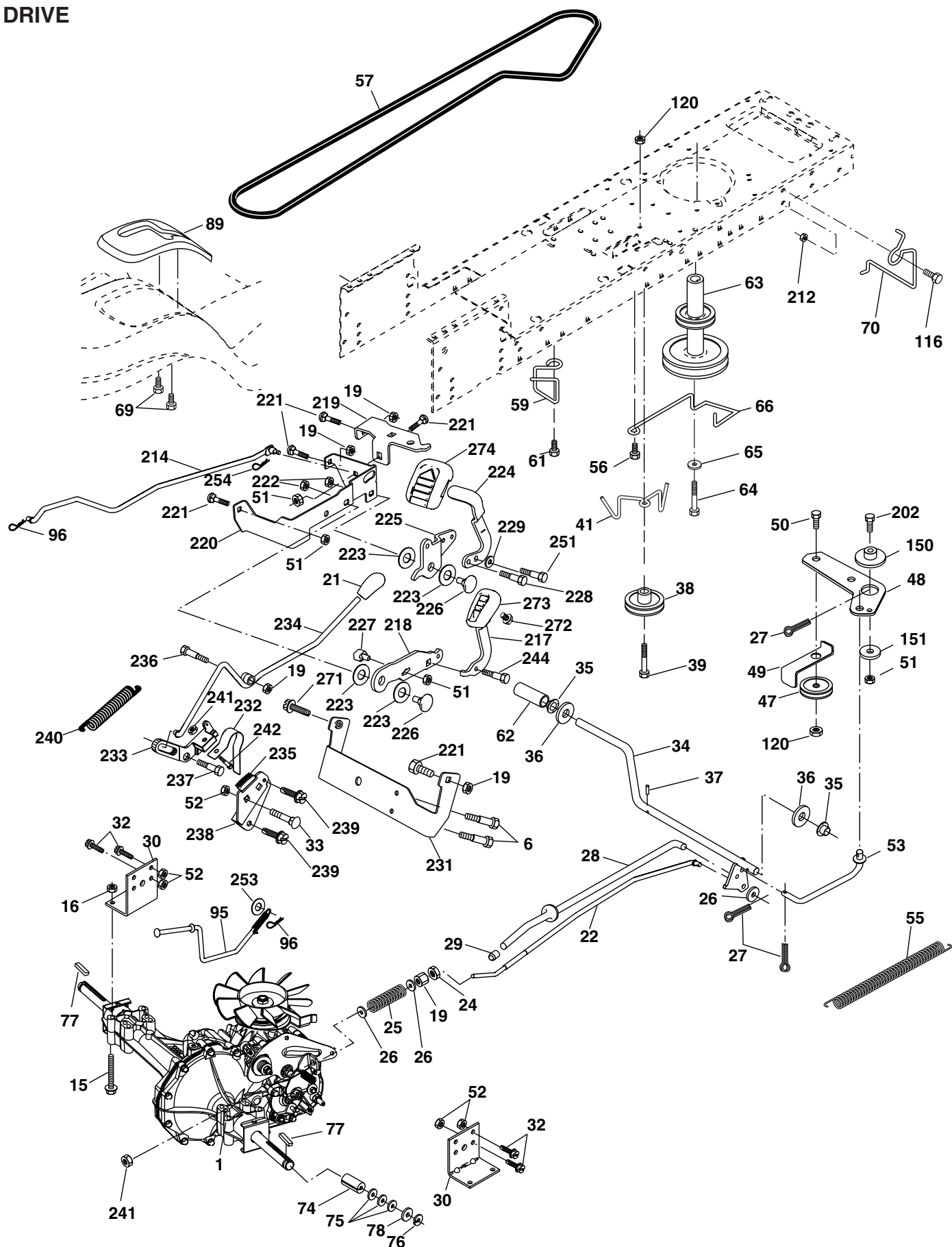
KEY NO.	PART NO.	DESCRIPTION
1	174619	Chassis Stl Stamping
2	176554	Drawbar, Stretch
3	17060612	Screw 3/8-16x3/4
5	155272	Bumper Hood/Dash
9	187846X011	Dash P/L STL
10	STD533710	Bolt Carriage 3/8-16 x 1
11	174996	Panel Dash Lh
13	172105X010	Panel Dash Rh
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	184272X615	Hood
18	184921	Bumper Extension
26	73800600	Nut Lock Hex W/Ins. 3/8-16 unc
28	184259	Grille/Lens Asm (Key Nos. 166, 258-260, 263, 264, 274, 275)
30	188572X615	Fender Footrest STLT
31	139976	Bracket Support Fender
37	17490508	Screw Thdrol 5/16-18 X1/2
38	175710	Bracket Asm. Pivot Mower Rear
39	174714	Bracket Pivot Laser LT
58	187145	Air Duct
60	STD533707	Bolt Rdhd Sqnk 3/8-16unc x 3/4
64	154798	Dash Lower STLT
74	STD541437	Nut Crownlock 3/8-16 Unc
90	124346X	Nut Self-Thd Wsh-Hd 1/4
142	175702	Plate Reinforcement STLT
143	186689	Bracket Swaybar Chassis
144	175582	Bracket Pnt Footrest STLT
145	156524	Rod Pivot Chassis/Hood
159	179950X428	Cupholder
166	171875	Screw HWHD Hi-Lo #13-16 x 3/4
206	170165	Bolt Shoulder 5/16-18 TT
207	17670508	Screw Thdrol 5/16-18 x 1/2
208	17670608	Screw Thdrol 3/8-16 x 1/2
209	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
217	179132X428	Console Fuel Window
258	184264X599	Lens Laser RH
259	184263X599	Lens Laser LH
260	184262X428	Cover Lens
263	184265	Bezel Grille LH
264	184266	Bezel Grille RH
272	185923X428	Hood Vent RH
273	185922X428	Hood Vent LH
274	184260X428	Insert Grille LH
275	184261X428	Insert Grille RH
278	191611	Screw 10 x 3/4 Single Lead-Hex
- -	5479J	Plug Button

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

DRIVE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

DRIVE

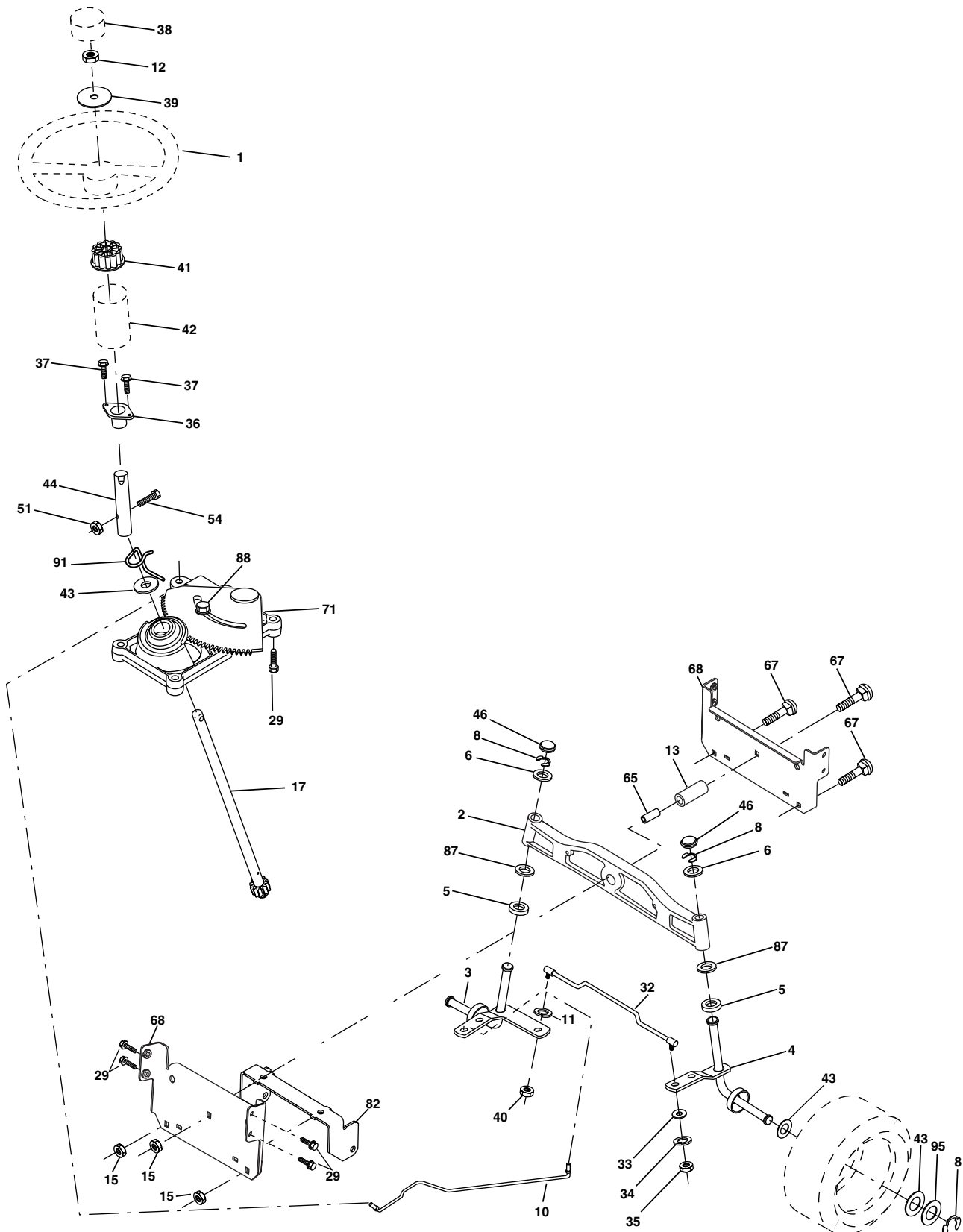
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	-----	78	121748X Washer 25/32 x 1-5/8 x 16 Ga.
6	17060512	89	188308X428 Console Shift
15	74490544	95	180825 Rod Bypass
16	73800500	96	4497H Retainer Spring 1" Zinc/Cad
19	73800600	116	72140608 Bolt RDHD SQNK 3/8-16 unc x 1
21	175036X428	120	73900600 Nut Lock Flg 3/8-16 unc
22	175896	150	175456 Spacer Retainer
24	73350600	151	19133210 Washer 13/32 x 2 x 10 Ga.
25	106888X	202	72110614 Bolt Carr Sh 3/8-16 x 1-3/4 Gr. 5
26	19131316	212	145212 Nut HexFlange Lock
27	76020412	214	174735 Link Transaxle
28	175765	217	179433 Pedal Assy, Reverse, with Pad
29	71673	218	174713 Arm Control Pedal Reverse
30	169592	219	174839 Bracket Frest Pdl Ctrl. Hyd
32	74760512	220	174711 Bracket Mtg. Pedal Control
33	72140506	221	72140606 Bolt Rdhd Sqnk 3/8-16 unc x 3/4
34	175578	222	73680700 Nut Crownlock 7/16-14 unc
35	120183X	223	174840 Washer Nylon 11/16 ID x .060
36	19211616	224	174736 Pedal Forward
37	1572H	225	174712 Arm Control Pedal Forward
38	179114	226	174902 Bolt Pivot Spacer
39	72110622	227	174710 Cam Reverse Pedal LT
41	175556	228	179032 Bolt Shoulder 5/16-18
47	127783	229	176451 Washer Serrated 5/16 x .75
48	154407	231	174573 Strap Torque
49	123205X	232	175570 Actuator Cruise
50	72110612	233	174856 Pawl Control Cruise
51	73680600	234	174858 Lever Control Cruise
52	73680500	235	174857 Sector Control Cruise
53	105710X	236	128903 Bolt Shoulder 3/8-16
55	105709X	237	170165 Bolt Shoulder 5/16-18
56	17060620	238	175807 Arm Mtg. Cruise Sector
57	140294	239	17490508 Screw Thdrol. 5/16 x 1/2
59	169691	240	175610 Spring Return Cruise Control
61	17120614	241	73930400 Nut Centerlock 1/4-20 unc
62	8883R	242	74780412 Bolt Fin. Hex 1/4-20 unc x 3/4
63	175410	244	17490510 Screw 5/16-18 x 5/8
64	173937	251	17060516 Screw 5/16-18 x 1
65	10040700	253	179422 Washer .3125 x .615 x 16 Ga.
66	154778	254	178062 Clip Retainer
69	142432	271	17000612 Screw Hexwsh. Thrd. 3/8-16 x 3/4
70	134683	272	17670508 Screw, 5/16-18 x 1/2 TT
74	137057	273	179610 Pad, Reverse Pedal
75	121749X	274	175646 Cover Pedal Forward
76	12000001		
77	123583X		

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

STEERING ASSEMBLY



steering_pl.lt_29

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

STEERING ASSEMBLY

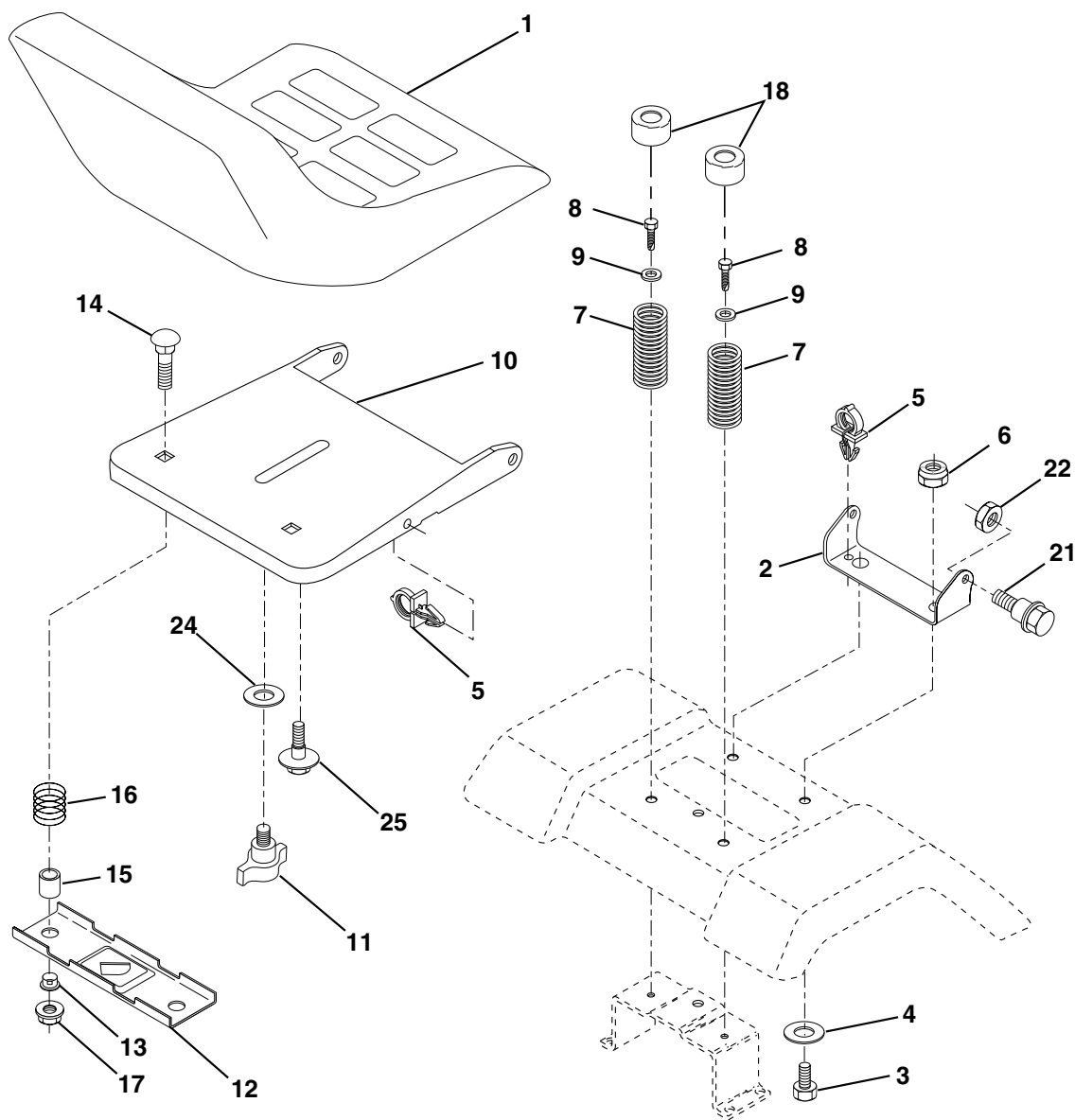
KEY PART NO.	NO.	DESCRIPTION
1	159944X428	Wheel Steering
2	184706	Axle Asm
3	169840	Spindle Asm LH
4	169839	Spindle Asm RH
5	6266H	Bearing Race Thrust Harden
6	121748X	Washer 25/32 X 1-5/8 X 16 Ga.
8	12000029	Ring Klip #15304-75
10	175121	Link Drag Extended Stamp
11	STD551137	Washer Lock Hvy Hlcl Spr 3/8
12	73940800	Nut Hex Jam Toplock 1/2-20 Unf
13	136518	Bearing Axle STLT/GT
15	145212	Nut Hex Flange Lock
17	180641	Shaft Asm Strg
29	17000612	Screw Thdrol 3/8-16x3/4
32	171888	Rod Tie Wire Form 19 75 Mech
33	19111216	Washer 11/32 X 3/4 X 16
34	10040500	Washer Lock 5/16
35	73540500	Crownlock Nut 5/16-24
36	155099	Bushing Strg
37	152927	Screw
38	159946X428	Insert Cap Strg Wh Au
39	19182411	Washer
40	73540600	Nut Crownlock 3/8-24
41	159945	Adaptor Wheel Strg
42	145054X428	Boot Steering Shaft
43	121749X	Washer 25/32 X 1 1/4 X 16 Ga.
44	180640	Extension Steering Shaft LR/LT
46	184946X505	Cap Spindle Fr Top Red
51	73540400	Nut Crownlock 1/2-28
54	71130420	Bolt Hex 1/4-28unf x 1-1/4 Ga. 8
65	160367	Spacer Axle
67	72110618	Bolt Rdhd Sq 3/8-16 Unc x 2-1/4
68	169827	Axle, Brace
71	175146	Steering Asm
82	169835	Bracket Susp. Chassis Front
87	173966	Washer Flat .781 x 1-1/2 x .14
88	175118	Shoulder Bolt 7/16-20
91	175553	Clip Steering
95	188967	Washer Harden .793 x 1.637 x .060

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

SEAT ASSEMBLY



seat_it.knob_2

KEY NO.	PART NO.	DESCRIPTION
1	188719	Seat
2	140551	Bracket Pivot Seat 8 720
3	71110616	Bolt Fin Hex 3/8-16unc X 1
4	19131610	Washer 13/32 X 1 X 10 Ga
5	145006	Clip Push-In
6	STD541437	Nut Hex w/Ins. 3/8-16 Unc
7	124181X	Spring Seat Cprsn 2 250 Blk Zi
8	17000616	Screw 3/8-16 X 1-1/2
9	19131614	Washer 13/32 X 1 X 14 Ga.
10	182493	Pan Seat
11	166369	Knob Seaat 1/2-13 Unc Blk
12	121246X	Bracket Mounting Switch

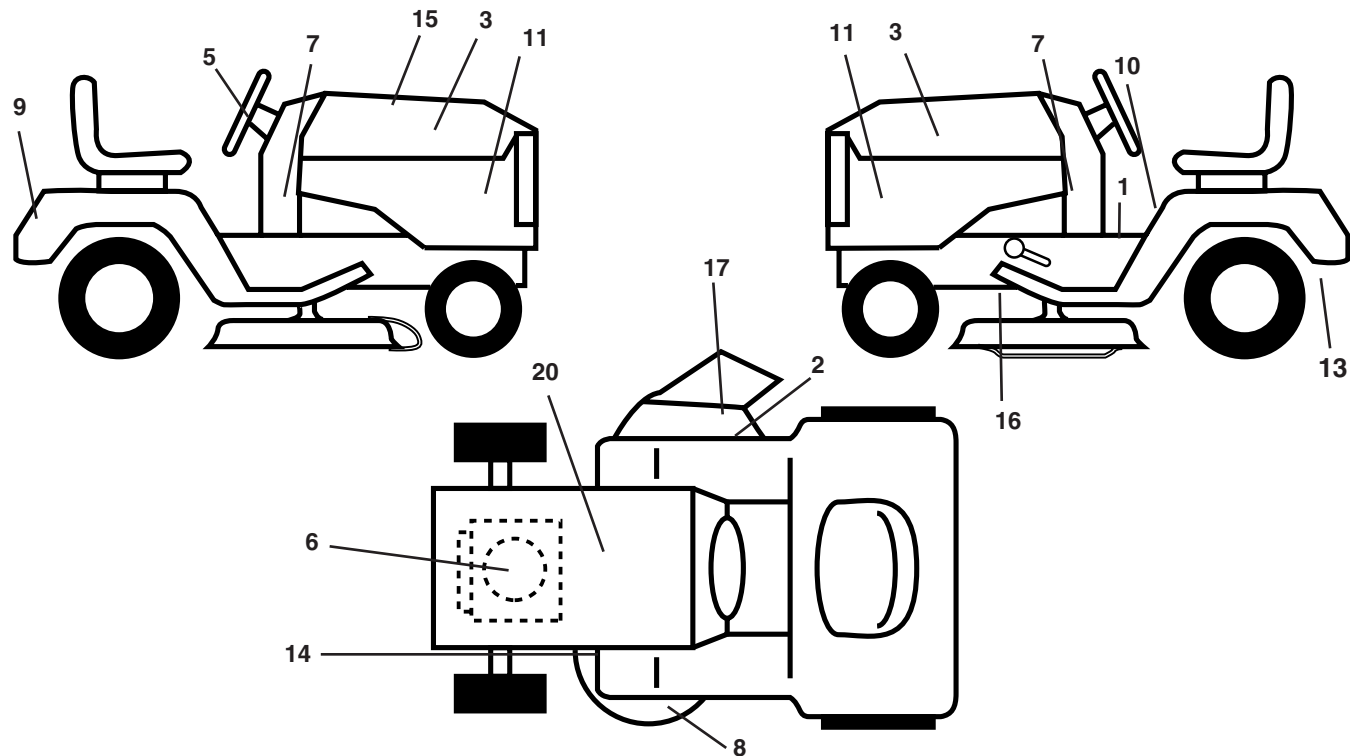
KEY NO.	PART NO.	DESCRIPTION
13	121248X	Bushing Snap Blk Nyl 50 Id
14	72050412	Bolt Rdhd Sqnk 1/4-20x1-1/2
15	134300	Spacer Split 28x 96 Yel Zinc
16	121250X	Spring Cprsn 1 27 Blk Pnt
17	123976X	Nut Lock 1/4 Lge Flg Gr 5 Zinc
18	124238X	Cap Spring seat Blk 1.75 x 1.0
21	171852	Bolt Shoulder 5/16-18 Unc
22	STD541431	Nut Hex Lock W/Ins 5/16-18
24	19171912	Washer 17/32 X 1-3/16 X 12 Ga.
25	127018X	Bolt Shoulder 5/16-18 x .62

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

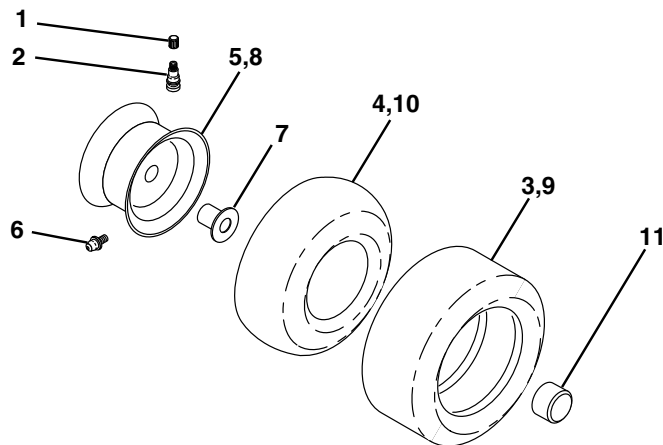
TRACTOR - - MODEL NUMBER 944.604931

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	177982	Decal Fend STLT Oper	14	160396	Decal V-Belt Schematic
2	170563	Decal Mower Warn Keep Hand Away	15	190141	Decal Replacement Parts
3	186366	Decal Hood RH/LH	16	146046	Decal V-Belt Drive Sch
5	164065	Decal Strng Whl Domed Prem.	17	179128	Decal Deck "B" "42"
6	186741	Decal HP Engine	20	149517	Decal Bat Dan/Psn
7	186478	Decal Dash Pnl	--	174998X428	Pad Footrest LH STLT
8	172331	Decal Deck	--	175542X428	Pad Footrest RH STLT
9	186572	Decal Craftsman	--	138311	Decal Handle Lft Height Adjust
10	157140	Decal Fender Danger Eng/Fr	--	191883	Manual Owner's (English)
11	186367	Decal Hood Side Panel	--	191884	Manual Owner's (French)
13	166960	Decal By Pass			

WHEELS & TIRES



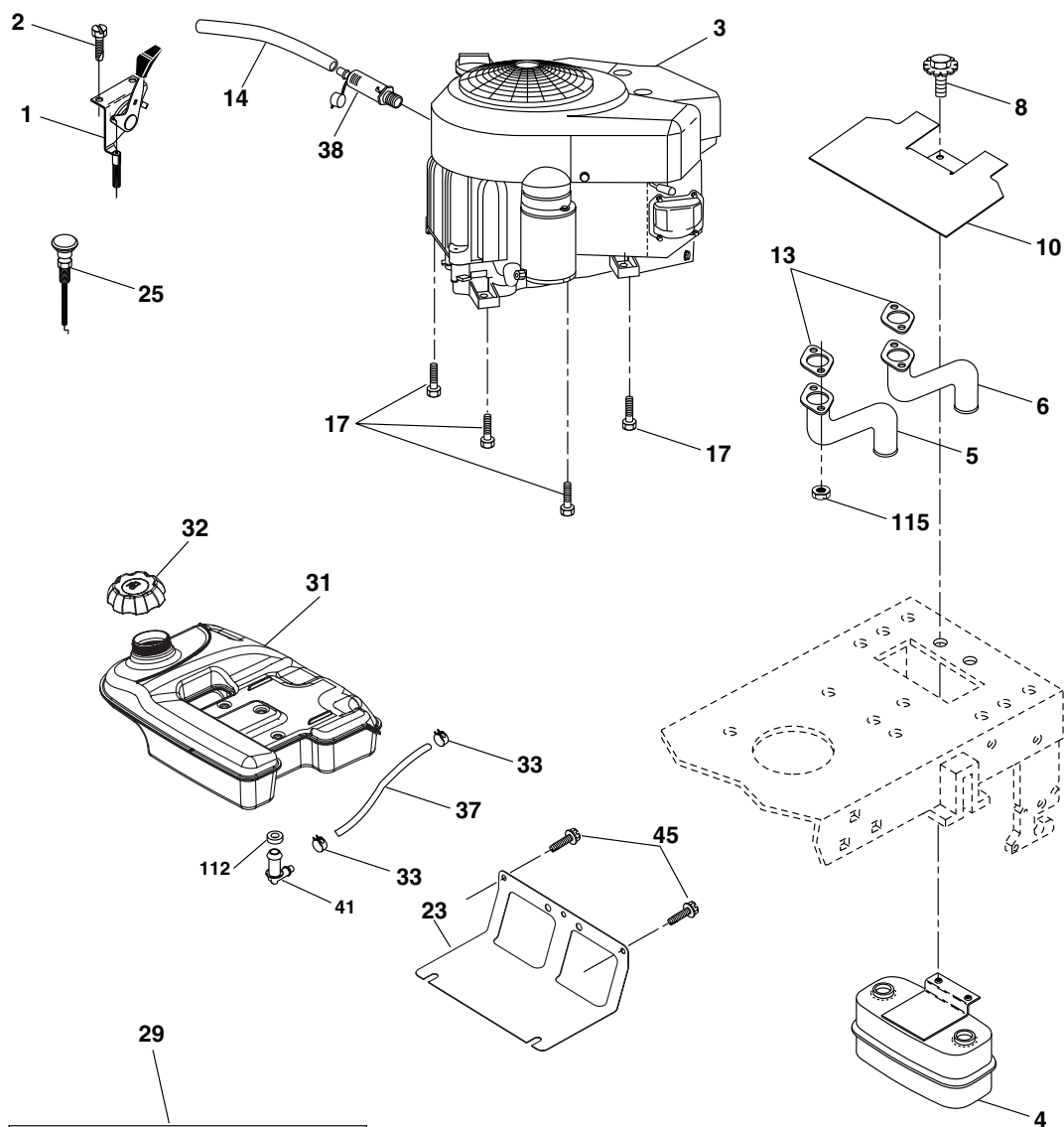
KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire F Ts 15 X 6 0 - 6 Service
4	59904	Tube Front (Service Item Only)
5	106732X624	Rim Asm 6"front Service
6	278H	Fitting Grease (Front Wheel Only)
7	9040H	Bearing Flange (Front Wheel Only)
8	106108X624	Rim Asm 8"rear Service
9	122082X	Tire R Ts 20x10-8 C Service
10	7152J	Tube Rear (Service Item Only)
11	104757X428	Cap Axle Blk 1 50 X 1 00
--	144334	Sealant, Tire (10 oz. Tube)

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

ENGINE



engine-Honda 2cyl_13

KEY NO.	PART NO.	DESCRIPTION
1	170546	Control Throt Paddle
2	17720408	Screw Hex Thd Cut 1/4-20x5/8 T
3	-----	Engine (See Breakdown) Honda Model GXV530-EXA2
4	149723	Muffler Exhaust
5	175484	Exhaust Asm. Left
6	175485	Exhaust Asm. Right
8	171877	Bolt 5/16-18unc x 3/4
10	146629	Heat Shield
13	-----	Gasket (Order from engine Manufacturer)
14	148456	Tube Drain Oil Easy
17	17120616	Screw Thdrol 3/8-16x1-1/2 Tytt
23	169837	Shield BRN/DBR Guard

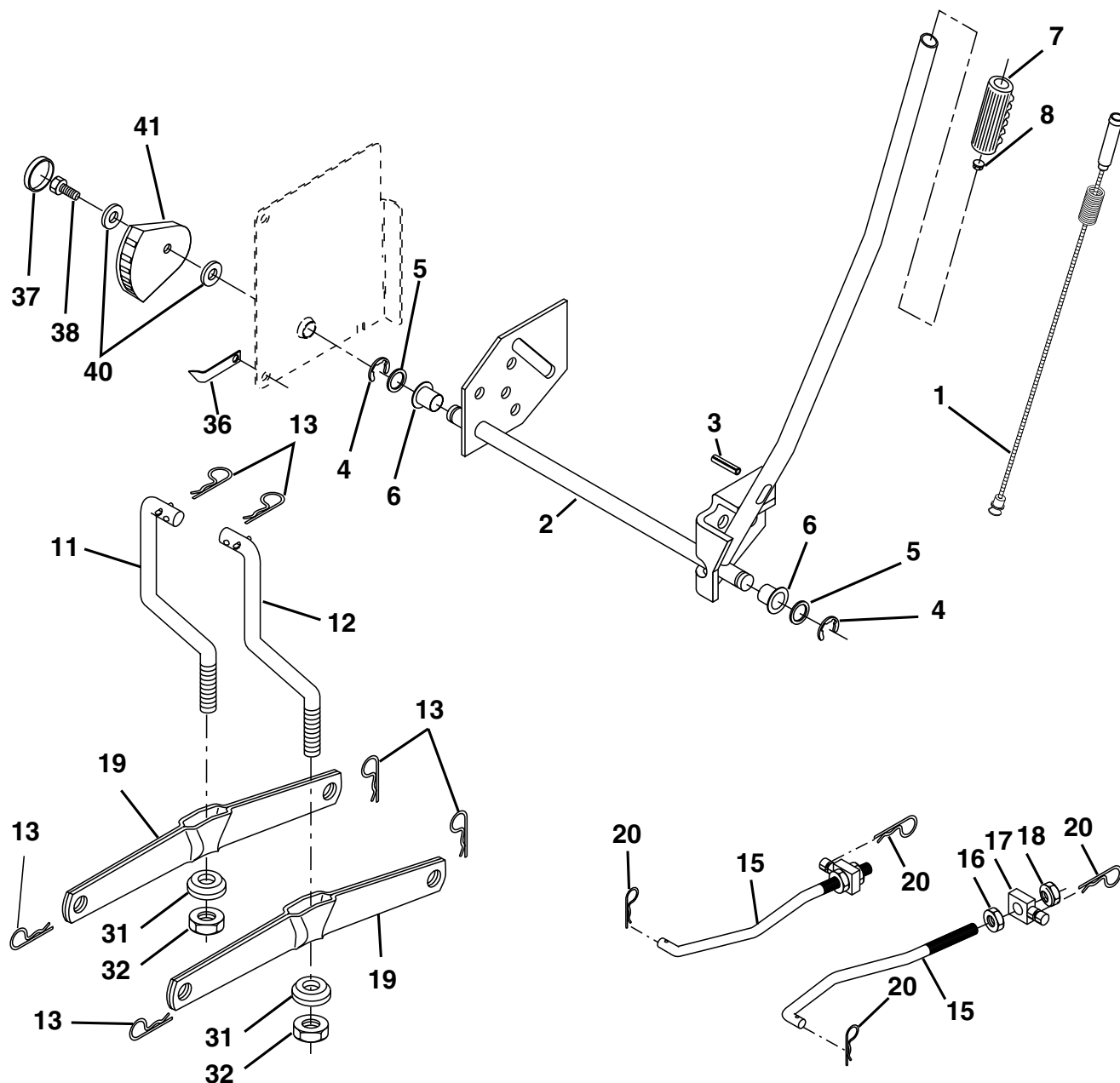
KEY NO.	PART NO.	DESCRIPTION
25	187766X428	Control Choke
29	137180	Arrestor Spark
31	179022	Tank Fuel 4.0
32	179124X428	Cap Fuel Gauge
33	123487X	Clamp Hose Blk
37	8543R	Line Fuel
38	181654	Plug Drain Oil Easy
41	139277	Stem Tank Fuel
45	17000612	Screw Hex Wsh Thdrol 3/8-16 x 3/4
112	3645J	Bushing
115	-----	Nut Exhaust (Order from engine Manufacturer)

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

MOWER LIFT



KEY NO.	PART NO.	DESCRIPTION
1	159460	Wire Asm Inner W/Plunge5r
2	159471	Shaft Asm Lift
3	105767X	Pin Groove
4	STD581062	E Ring #5133-62
5	19211621	Washer 29/32 x 1-1/4 x 21 Ga.
6	120183X	Bearing Nylon Blk .629 ID
7	125631X	Grip Handle Fluted
8	122365X	Button, Plunger
11	139865	Link Lift Lh Fixed Length
12	139866	Link Lift Rh Fixed Length
13	STD624008	Retainer Spring
15	173288	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc

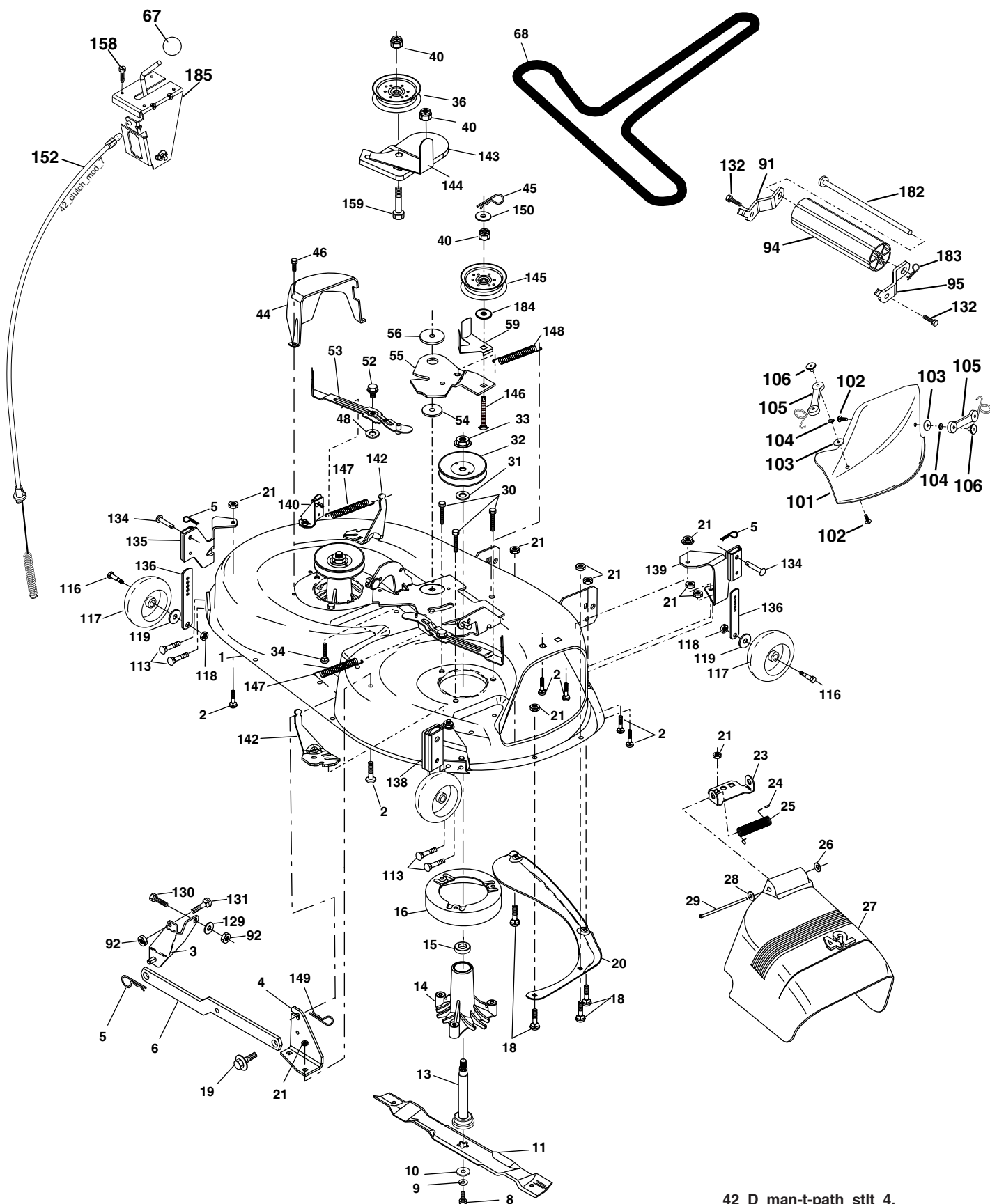
KEY NO.	PART NO.	DESCRIPTION
17	175689	Trunnion Blk Zinc
18	73800800	Nut Lock w/Wsh 1/2-13 Unc
19	139868	Arm Suspension Rear
20	163552	Spring Retainer
31	169865	Bearing Pvt. Lift
32	73540600	Nut Lock 3/8-24
36	155097	Pointer Height Indicator
37	123935X	Plug Hole
38	17060516	Screw 5/16-18 x 1
40	19112410	Washer 11/32 x 1-1/2 x 10 Ga.
41	155098	Indicator Height

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

MOWER DECK



42_D_man-t-path_stlt_4.

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

MOWER DECK

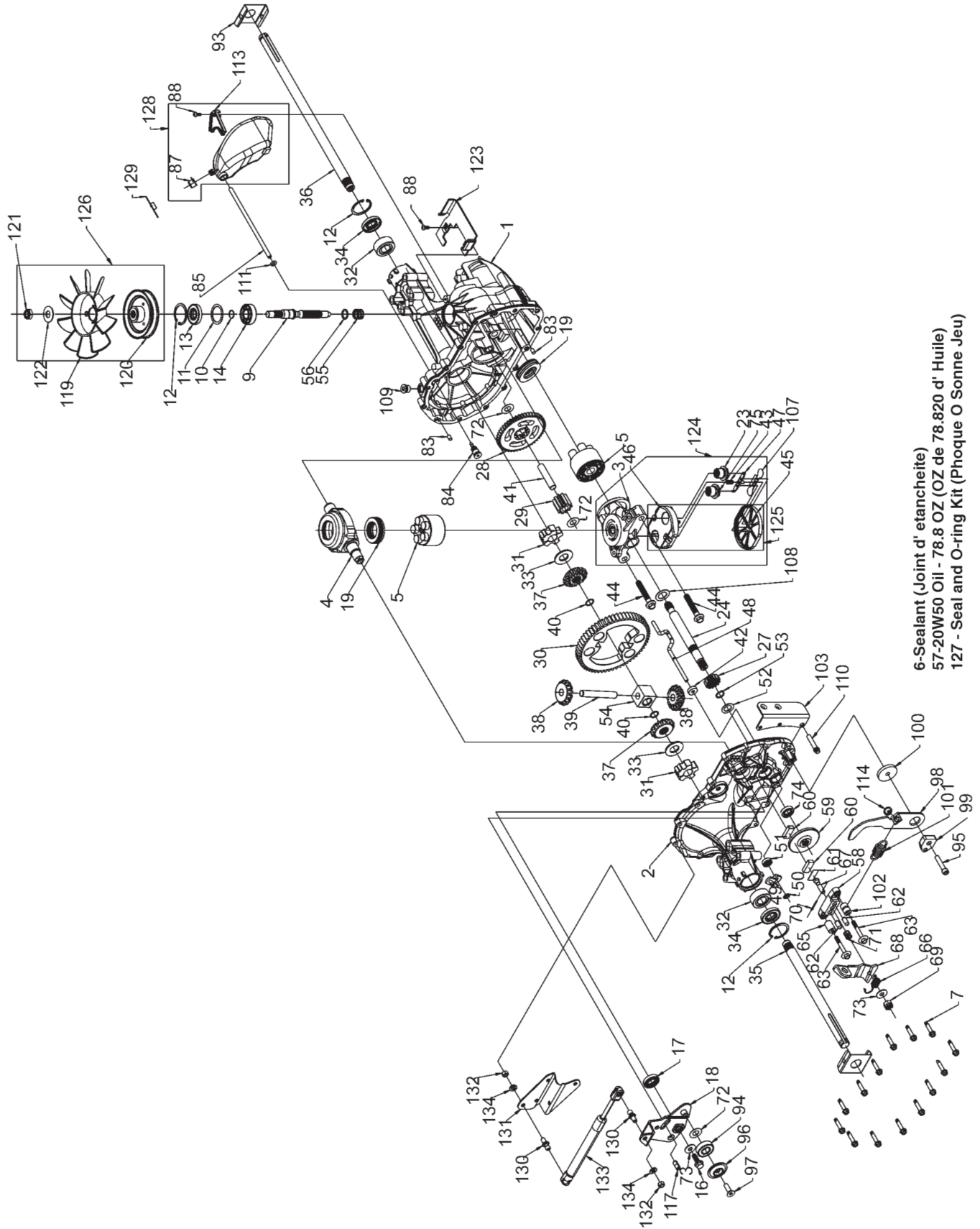
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	182032	Mower Deck Assembly, 42"	101	136420	Mulcher Cover
2	STD533107	Bolt	102	71081010	Screw
3	138017	Bracket Assembly, Sway Bar, Front	103	19061216	Washer #10
4	165460	Bracket Sway Bar 38/42" Deck	104	STD551110	Washer, Lock
5	STD624008	Retainer Spring	105	160793	Latch Assembly, Bagger
6	178024	Bar Sway Deck	106	2029J	Nut, Weld
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	113	17060512	Screw 5/16-18 x 3/4
9	STD551137	Washer, Lock	116	184219	Bolt, Shoulder
10	140296	Washer, Hardened (The following blades are available)	117	174873	Wheel, Gauge
11	134149	Blade, 42" Mulching Std (For mulching mowers only)	118	73930600	Nut, Centerlock 3/8-16
--	139775	Blade, 42" Mulching Premium (For better wear when mulching)	119	STD551037	Washer 3/8 x 7/8 x 14 Ga.
--	138971	Blade, 42" Hi-Lift (For bagging or discharging)	129	19131312	Washer 13/32 x 13/16 x 12 Ga.
13	137645	Shaft Assembly, Mandrel, Vented	130	STD523710	Bolt, Fin Hex 3/8-16 Unc x 1 Gr. 5
14	128774	Housing, Mandrel, Vented	131	STD533710	Bolt, Rdhd Sqnk 3/8-16 Unc x 1
15	110485X	Bearing, Ball, Mandrel	132	17000612	Screw Hexwsh 3/8-16 x 3/4
16	174493	Stripper, Vented Mower Deck	134	156941	Pin Head Rivet
18	72140505	Bolt, Carriage 5/16-18 x 5/8	135	159765	Bracket Asm. Whl. Ga. Rear LH
19	132827	Bolt, Shoulder	136	155986	Bar Adjusting Ga. Whl.
20	159770	Baffle, Vortex	138	159763	Bracket Asm. Whl. Ga. Rear RH
21	STD541431	Nut Crownlock 5/16-18 UNC	139	159767	Bracket Asm. Whl. Ga. Front RH
23	177563	Bracket, Deflector	140	159768	Bracket Asm. Whl. Ga. Front LH
24	105304X	Cap, Sleeve	142	165890	Arm Spring Brake Mower
25	123713X	Spring, Torsion, Deflector	143	157109	Bracket Arm Idler 42"
26	110452X	Nut, Push	144	158634	Keeper Belt 42" Clutch Cable
27	130968X428	Shield, Deflector	145	165888	Pulley Idler Flat
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	146	171977	Bolt Carriage Idler
29	131491	Rod, Hinge	147	131335	Spring Extension
30	173984	Screw Thdrol Washer Head	148	169022	Spring Return Idler
31	187690	Washer, Spacer	149	165898	Retainer Spring Yellow Zinc
32	153535	Pulley, Mandrel	150	19091216	Washer 9/32 x 3/4 x 16 Ga.
33	178342	Nut, Toplock, Flanged	151	169670	Bracket Clutch
34	72110612	Bolt Carr Sh 3/8-16 x 1-1/2 Gr. 5	152	169676	Cable Clutch 42 In
36	131494	Pulley, Idler, Flat	153	169674	Washer Flat 3/8" Type B
40	73900600	Nut Lock Flg 3/8-16 unc	154	169675	Spring Retainer
44	140088	Guard, Mandrel, L.H.	155	169671	Spring Retention Lever
45	STD624003	Retainer	156	169672	Spacer
46	137729	Screw, Thd. Roll 1/4-20 x 5/8	157	169669	Rod Clutch
48	133944	Washer, Hardened	158	17720408	Screw Hex Thd Cut 1/4-20 x 5/8
52	139888	Bolt, Shoulder 5/16-18 UNC	159	72140614	Bolt Rdhd Sqn 3/8-16 Unc x 1-3/4
53	184907	Arm Assembly, Pad, Brake	182	179126	Rod Nose Roller
54	178515	Washer, Hardened	183	163552	Retainer Spring
55	155046	Arm, Idler	184	19131410	Washer 13/32 x 7/8 x 10 Ga.
56	165723	Spacer, Retainer	185	188234	Head Asm Cable Clutch
59	141043	Guard, TUV Idler	--	130794	Mandrel Assembly (Includes Housing, Shaft and Shaft Hardware Only - Pulley Not Included)
67	149846	Knob Custom Oval	--	186917	Replacement Mower, Complete (Std. Deck-Order separately nose roller, mulcher cover and gauge wheel components key nos. 91, 94, 95, 132, 182 & 183, 101 - 106, 116 - 119, 5, 134, 136)
68	144959	V-Belt			
91	180532	Bracket Nose Roller LH			
92	STD541437	Nut			
94	132264	Roller Nose			
95	180533	Bracket Nose Roller RH			

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

HYDRO GEAR TRANSAXLE - MODEL NUMBER 336-0510



6-Sealant (Joint d' etancheite)
57-20W50 Oil - 78.8 OZ (OZ de 78.820 d' Huile)
127 - Seal and O-ring Kit (Phoque O Sonne Jeu)

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

HYDRO GEAR TRANSAXLE - MODEL NUMBER 336-0510

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	170351 Main Housing, Assembly	68	178782 Arm, Brake
2	170352 Side Housing, Assembly	69	170415 Slotted Hex Nut 5/16-24
3	170353 Center Section, Assembly	70	170416 Cotter Pin 3/32 X 3/4
4	170354 Swashplate, Trunion Machined	71	170417 Compression Spring Brake Anti-Drag
5	169898 Block - Assembly	72	170418 Washer, Ht .5 I.D. X 1 O.D. X .032
6	170355 Sealant 10.5 Oz	73	142884 Flat - Washer 11/32 I.D. X 7/8 O.D
7	170356 Hex Flange Screw 1/4-20 X 1.25	74	170419 Oil Seal .625 X 1.0 X .25
8	170357 Stud, 5/16-24 Hex Double End	75	170420 Check Plug Assembly, .027, Washer
9	170358 Shaft, Input	76	170421 Stud, 5/16-24 Friction Pack
10	170359 Ring - Retaining	77	170422 Puck, .330 X 1.50 X .0975
11	170360 Spacer	78	142969 Spring, Helical Comp
12	169870 Ring - Retaining	79	142980 Spacer
13	170361 Seal, Lip .67 X 1.58 X .276	80	150778 Hex Lock Nut 5/16-24Unjf(Nylon Insert)
14	169869 Ball Brg 17mm Id X 40mm Od X 12mm	81	170423 Wedge, Friction Pack
16	170362 Hex Flange Head Screw 5/16-24X0.75	82	170424 Clip, Washer .316x1.50x.1046 (Plated)
17	170363 Lip Seal 18 X 32 X 7	83	161168 Pin, Standard Headless
18	178781 Arm, Control	84	170425 Fitting, 5/16 Sae 5/32 Tube
19	150771 Bearing, 30x52x13 Thrust	85	170426 Hose, Expansion Tank
23	170365 Check Plug Assembly, Washer	87	142917 Cap - Poppet Valve
24	170366 Shaft, Motor	88	170429 Bolt, Self Tapping 10-32 X 1/2
27	170367 Gear - Pinion, 13t	90	170430 Puck, Inner Wedge
28	170368 10t/48t Gear	93	170431 Spring Clip - Housing Thrust
29	170369 Gear, 10t Jackshaft	94	178783 Bearing, Ball
30	170370 60t Bull Gear	95	178784 Screw, Socket Head Cap 5/16-24X1-1/2
31	170371 Sleeve Bearing .75 X 1.575 X .625	96	178786 Spacer, Locating
32	170389 SleeveBearing(Outboard) .75x1.750x.625	97	178787 Screw, SFHCS 5/16-18 X1
33	142991 Washer, 3/4 Id X 1-1/2 Od X .13 Thk	98	178789 Arm Return
34	170390 Lip Seal Axle Seal	99	178792 Puck, Adjusting
35	170391 Shaft, Axle .75 X 11.39 (Key, R.H.)	100	178793 Washer, .24 ID X 1.60 OD X .239
36	170392 Shaft, Axle .75 X 16.99 (Key, L.H.)	101	178794 Spring, Extension
37	150792 Miter Gear (Splined)	102	178795 Spacer .260 ID X .560 OD X .870
38	150793 Miter Gear 15t (0.5 Id)	103	178796 Bracket, Torque
39	150809 Shaft	107	170432 Deflector
40	170393 Ring, Spiral Retaining	108	170433 Washer,Motor Shaft .71idx1.15odx.030thk
41	170394 Pin, Jackshaft	109	170434 Plug, Sae #6
42	170395 Magnet, Ring	111	170435 O-Ring .07 X .301 I.D.
43	170396 Spring, Bypass	113	170437 Bracket, Support Expansion Tank
44	150797 Hydro Mtg Screw 3/8-24 X 2.5 Long	114	178797 Spring
45	170397 Filter	116	170438 Silicon Sponge
46	170398 Base, Filter	117	178799 Pin, Spring
47	170399 Actuator, Bypass	119	170439 Fan, 7 In.
48	170400 Rod, Bypass Actuator	120	170440 Pulley
49	170401 Arm, Bypass	121	170441 Hex Lock Nut 1/2-20 (Nylon Insert)
50	170402 Retaining Ring .250 External	122	170442 Washer, Belleville
51	170403 Seal, Lip .741 X .250 X .250 Tc	123	178800 Belt Keeper
52	170404 Flat Washer, 5/8 Id X 1.0 Od X .05 Thk	124	170444 Center Section-Filter-Bypass Assembly
53	170405 Retaining Ring	125	170445 Filter Assembly
54	170406 Bearing, Center Block	126	170446 Fan - Pulley Service Assembly
55	142977 Spring - Helical Compression	127	170447 Seal - O-Ring Kit
56	142978 Washer	128	173165 Kit, Expansion Tank
57	150798 20w-50 Oil	130	178802 Stud Ball
58	170407 Brake Yoke	131	178803 Bracket, Cruise Damper
59	170408 Rotor, Brake	132	178804 Hex Nut 5/16-18 NC
60	142883 Brake Puck	133	184227 Damper
61	142882 Puck Plate	134	178808 Washer, Helical Spring Lock 5/16
62	142887 Brake Actuating Pin	900	173839 Transaxle Complete
63	170410 Hfhcs 1/4-20x2 W/Patch,SpecialFlange		
64	142892 Bolt, 1/4-20 X 1 W/Patch		
65	170411 Spacer		
66	170412 Spring, Brake Arm Bias		
67	170413 Sq. Hd. Bolt 5/16-24-Ribbed		

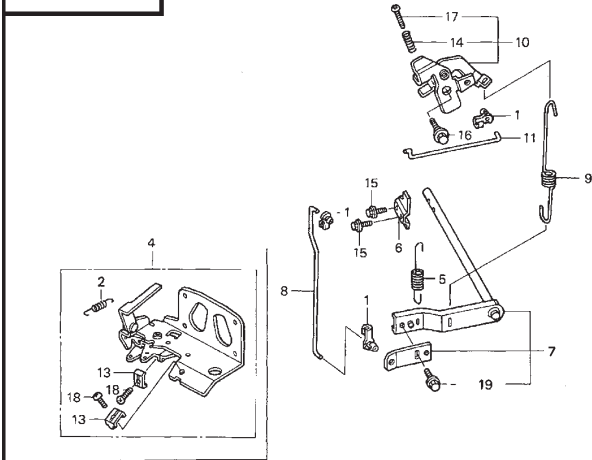
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

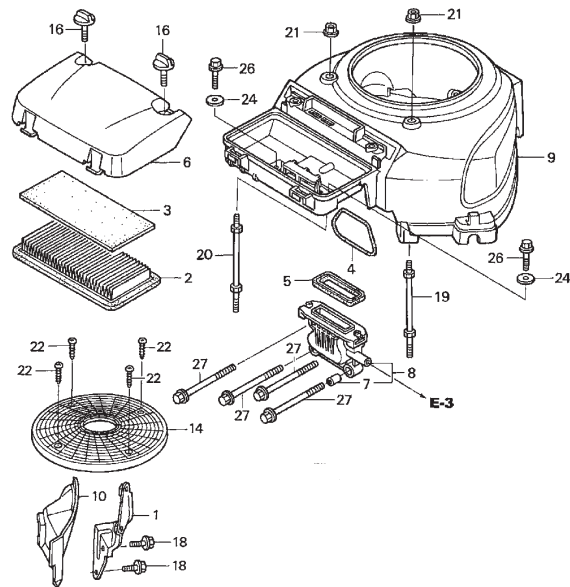
TRACTOR - - MODEL NUMBER 944.604931

HONDA ENGINE - MODEL NUMBER GXV530, TYPE NUMBER EXA2

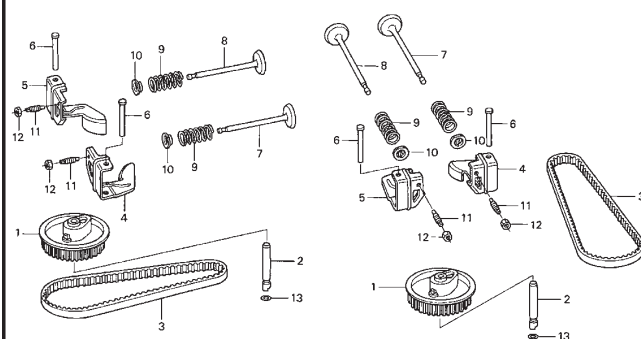
CONTROL



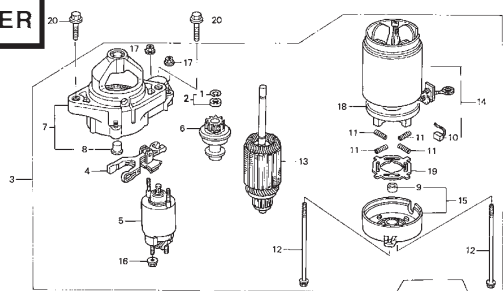
FAN COVER



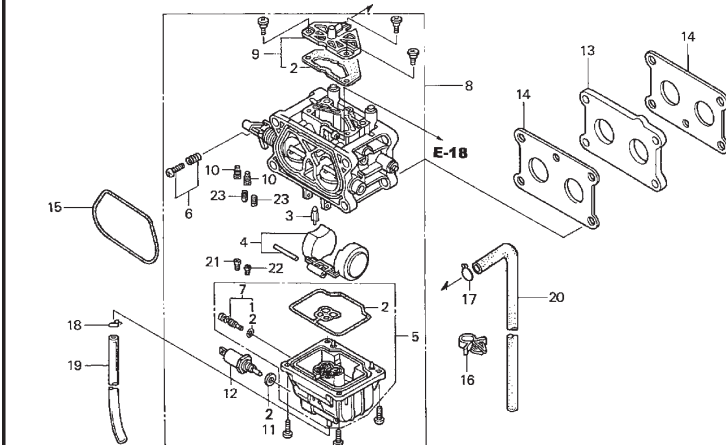
CAMSHAFT



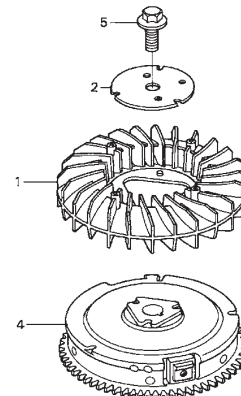
STARTER



CARBURETOR



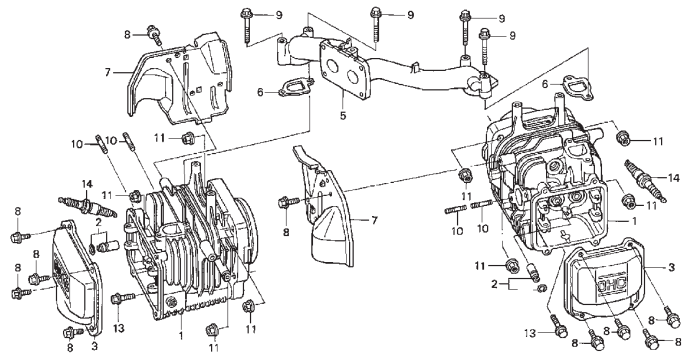
FLYWHEEL



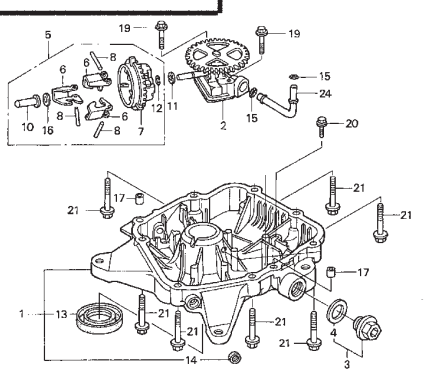
REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931
HONDA ENGINE - MODEL NUMBER GXV530,TYPE NUMBER EXA2

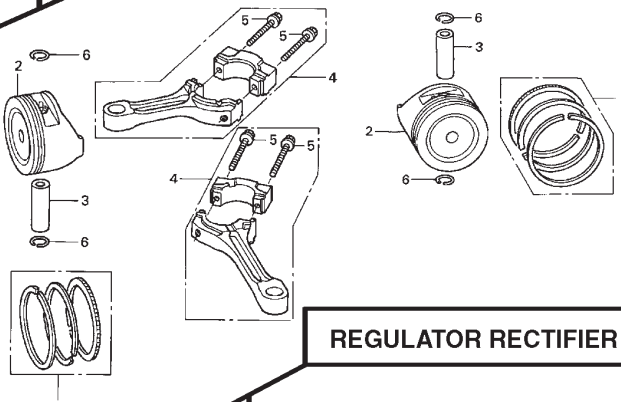
CYLINDER HEAD



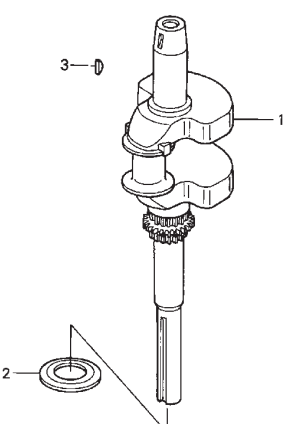
OIL PAN



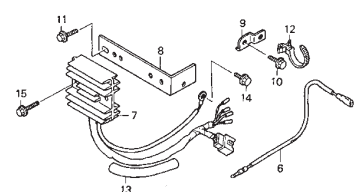
PISTON CONNECTING ROD



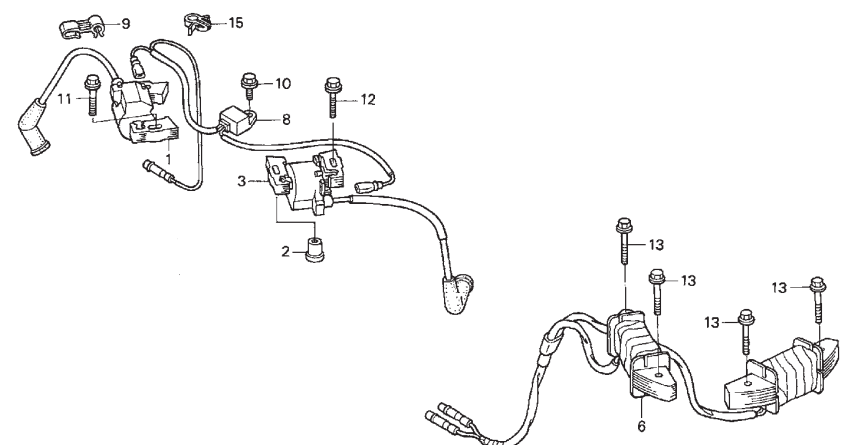
CRANKSHAFT



REGULATOR RECTIFIER



IGNITION COIL

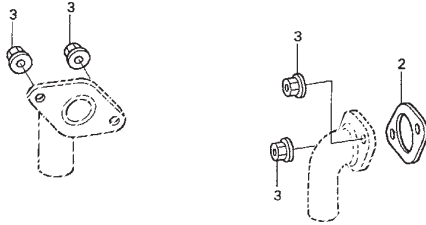


REPAIR PARTS

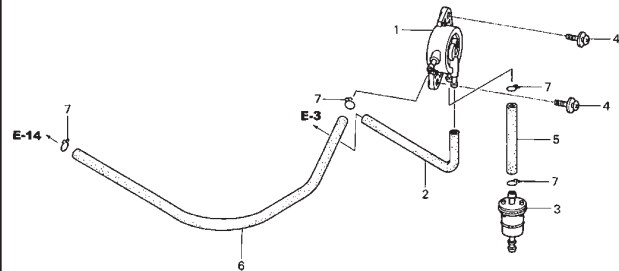
TRACTOR - - MODEL NUMBER 944.604931

HONDA ENGINE - MODEL NUMBER GXV530,TYPE NUMBER EXA2

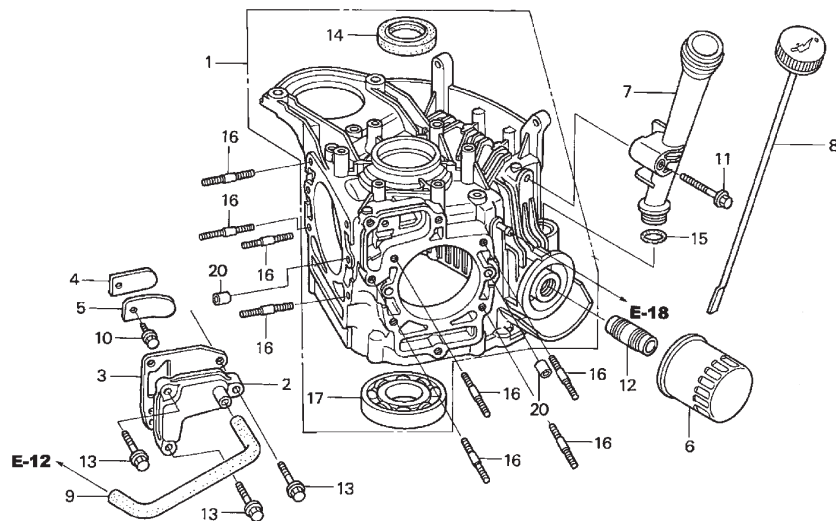
EXHAUST PIPE



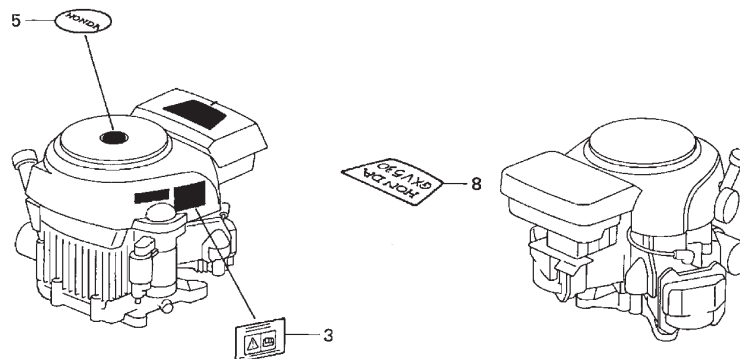
FUEL PUMP



CRANKCASE



LABELS



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

HONDA ENGINE - MODEL NUMBER GXV530, TYPE NUMBER EXA2

CONTROL

KEY NO.	PART NO.	DESCRIPTION
1	6605034	Rod, Joint
2	6605042	Spring, Choke Return
4	6605067	Control Assy. (2-lever)
5	6605125	Spring, Starter
6	6605133	Fork, Governor
7	6605141	Arm, Governor
8	6605158	Rod, Governor
9	6605166	Spring, Governor
10	6605174	Link, Governor
11	6605182	Rod, Governor Link
13	0800466	Holder, Cable.
14	0636431	Spring, Control Adjusting1
15	0928051	Bolt, Flange (5x10)
16	6607147	Bolt, Flange (6mm) (Ct200)
17	4755427	Screw, Recessed (5x25).
18	0145557	Screw, Pan (5x16)
19	2410876	Bolt, Flange (6x10)

FAN COVER

KEY NO.	PART NO.	DESCRIPTION
1	6605208	Stay, Fuel Pump
2	6605257	Element, Air Cleaner
3	6605265	Filter (Outer)
4	6605273	Gasket, Air Cleaner
5	6605281	Seal, Air Cleaner Housing
6	6605299	Cover, Air Cleaner
7	6224752	Collar A, Air Cleaner
8	6605307	Elbow, Air Cleaner
9	7088206	Cover, Fan *nh1* (Black)
10	6605471	Plate, Side
14	6662381	Grid, Screen *nh1* (Black)
16	6607121	Bolt, Air Cleaner (6mm)
17	5889365	Bolt, Flange (6x14) (Ct200)
18	0803619	Bolt, Flange (6x14)
19	6607154	Bolt, L. Stud (Ignition Coil)
20	6607162	Bolt, R. Stud (Ignition Coil)
21	6478812	Nut, Flange (6mm).
22	6607212	Screw, Tapping (4x30) (P0)
24	0629824	Washer, Plain (6mm)
26	2105799	Bolt, Flange (6x12)
27	2533883	Bolt, Flange (6x100)

CAMSHAFT

KEY NO.	PART NO.	DESCRIPTION
1	6604714	Pulley, Camshaft
2	5580063	Shaft, Cam Pulley
3	6604722	Belt, Timing (97hu8 G-200)
4	6604730	Arm, In. Valve Rocker
5	6604748	Arm, Ex. Valve Rocker
6	6604755	Shaft, Rocker Arm
7	6604763	Valve, In.
8	6604771	Valve, Ex.
9	1426972	Spring, Valve .
10	1426980	Retainer, In. Valve Spring
11	0294819	Screw, Tappet Adj.
12	0004598	Nut, Tappet Adj.
13	6315873	O-ring (6.8x1.9).

CARBURETOR

KEY NO.	PART NO.	DESCRIPTION
2	6604847	Gasket Set
3	6604854	Valve, Float
4	6604862	Float Set
5	6604888	Chamber Set, Float
6	6604896	Screw Set
7	6604904	Screw Set, Drain
8	6662423	Carburetor Assy.
9	6604979	Cover Set, Air Vent
10	6604987	Cap
11	6604995	Gasket
12	6605000	Valve Assy., Solenoid
13	6605018	Insulator, Carburetor
14	6605026	Gasket, Insulator.
15	6605273	Gasket, Air Cleaner
16	1965425	Clip, Wire Harness
17	0250647	Clip, Tube (B8)
18	0315705	Clip, Tube (B6.5)
19	4750725	Bulk Hose, Vinyl (4x7x8000) (4x7x300)
20	4983714	Bulk Hose, Vacuum (4.5x1000)(4.5x400)
21	6607261	Jet, Main (#82.5)
--	6607279	Jet, Main (#85).
--	6607287	Jet, Main (#87.5)
22	6607279	Jet, Main (#85).
--	6607287	Jet, Main (#87.5)
--	6607295	Jet, Main (#90).
23	6607311	Jet, Pilot (#37.5).

STARTER MOTOR

KEY NO.	PART NO.	DESCRIPTION
1	3508322	Ring, Snap (Denso).
2	4840666	Collar Set, Clutch Stop
3	6605596	Motor Assy., Starter
4	4840831	Lever, Pinion Drive
5	3508405	Switch Assy., Magnetic
6	6605604	Clutch, Overrunning
7	6605612	Housing, Drive Side.
8	5267588	Bearing A
9	3508413	Bearing B
10	3620366	Brush.
11	3508439	Spring, Brush
12	3508454	Bolt, Through
13	6605620	Armature
14	4840898	Yoke
15	6605638	Frame, Commutator End
16	3508470	Nut, Hex. (8mm)
17	0839688	Nut, Flange (5mm)
18	3508496	Holder, Brush
19	3508504	Insulator, Brush Holder
20	2756310	Bolt, Flange (10x40)

FLYWHEEL

KEY NO.	PART NO.	DESCRIPTION
1	6605430	Fan, Cooling
2	6605448	Plate, Cooling Fan Setting1
4	6605588	Flywheel (6p).
5	6607139	Bolt, Flange (16x35)

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

HONDA ENGINE - MODEL NUMBER GXV530, TYPE NUMBER EXA2

CYLINDER HEAD

KEY NO.	PART NO.	DESCRIPTION
1	6684989	Cylinder
2	0688887	Seal, Valve Stem
3	6604524	Cover, Head
5	6605232	Manifold, In
6	6605240	Gasket, In. Manifold
7	6605489	Shroud
8	0636845	Bolt, Flange (6x12) (Ct200)
9	2488187	Bolt, Flange (6x45)
10	0866103	Bolt, Stud (6x28)
11	6607170	Nut, Flange (8mm)
13	2401222	Bolt, Flange (6x30)
14	1521756	Spark Plug (Bpr4es) (Ngk)
--	1521764	Spark Plug (W14epu) (Denso).
--	1672443	Spark Plug (Bpr5es) (Ngk)
--	1672450	Spark Plug (W16epu) (Denso)

OIL PAN

KEY NO.	PART NO.	DESCRIPTION
1	6853386	Pan Assy., Oil
2	6853428	Pump Assy., Oil
3	6853469	Cap Assy., Drain
4	4497947	Gasket, Oil Filler Cap
5	6605075	Governor Assy.
6	6605083	Weight, Governor
7	6605091	Holder, Governor Weight
8	2025971	Pin, Governor Weight
10	6605117	Slider, Governor
11	0465591	Washer (6x16)
12	2456697	Clip, Governor Holder
13	6607196	Oil Seal (31x50x8)
14	1775170	Oil Seal (10x16x4.5)
15	6698815	O-ring (7.5x2.3)
16	0345900	Washer, Plain (6mm)
17	0069310	Pin A, Dowel (8x14)
19	2401222	Bolt, Flange (6x30)
20	2105823	Bolt, Flange (6x22)
21	2298404	Bolt, Flange (8x40)
24	6853436	Pipe, Oil Pump
25	6853444	Pipe, Oil Supply
26	6853451	Holder, Oil Pipe
27	6698823	O-ring (5.8x2)
28	2105799	Bolt, Flange (6x12)

CRANKSHAFT

KEY NO.	PART NO.	DESCRIPTION
1	6853410	Crankshaft
2	6607188	Washer, Thrust
3	2027159	Key, Special Woodruff (25x18)

PISTON CONNECTING ROD

KEY NO.	PART NO.	DESCRIPTION
1	6695571	Ring Set, Piston (Std) (Nippon)
--	6656425	Ring Set, Piston
2	6604672	Piston (Std)
3	6223994	Pin, Piston
4	6853402	Rod Assy., Connecting
5	6226963	Bolt, Connecting Rod (6x37)
6	2539120	Clip, Piston Pin (18mm)

IGNITION COIL

KEY NO.	PART NO.	DESCRIPTION
1	6605547	Coil Assy., Ignition (#1)
2	6605554	Collar, Ignition Coil
3	6605562	Coil Assy., Ignition (#2)
--	7246903	Coil Assy., Ignition (#2)
6	6605695	Coil Assy., Charge (12v-12a)
8	6605703	Diode Assy., Engine Stop
9	3687019	Clamp, Center Cord
10	0636845	Bolt, Flange (6x12) (Ct200)
11	2105849	Bolt, Flange (6x28)
12	2488187	Bolt, Flange (6x45)
13	2105856	Bolt, Flange (6x32)
14	0812834	Washer, Tank Setting
15	1640424	Clip, Wire Harness (6mm) (White)
16	3191921	Clip, Wire Harness

REGULATOR RECTIFIER • SUB WIRE HARNESS

KEY NO.	PART NO.	DESCRIPTION
6	6605745	Sub-wire Harness Assy.
7	6853568	Rectifier Assy., Regulator
8	6853576	Bracket, Regulator
9	2557312	Base, Clip
10	0636845	Bolt, Flange (6x12) (Ct200)
11	0803619	Bolt, Flange (6x14)
12	1685536	Strap, Cable (105mm) *nh1* (Black)
13	4618690	Tube, Wire
14	2581353	Bolt, Flange (6x8)
15	2105815	Bolt, Flange (6x20)
17	0748111	Bolt(6x25)
18	2105831	Bolt (6x25)

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.604931

HONDA ENGINE - MODEL NUMBER GXV530, TYPE NUMBER EXA2

EXHAUST PIPE

KEY NO.	PART NO.	DESCRIPTION
2	6605398	Gasket, Ex. Pipe
3	0471623	Nut, Flange (6mm)

FUEL PUMP

Key No.	Part No	Description
1	5611298	Pump Assy., Fuel
2	6605216	Tube, Diaphragm
3	4432233	Filter, Fuel
4	1226299	Screw-washer (5x16)
5	2449593	Bulk Hose, Fuel (5.5x8000) (5.5x100)
6	2449593	Bulk Hose, Fuel (5.5x8000) (5.5x350)
7	0250985	Clip, Tube (B10)

CRANKCASE

KEY NO.	PART NO.	DESCRIPTION
1	6853311	Crankcase Assy.
2	6604540	Cover, Breather 1
3	6604557	Gasket, Breather Cover
4	2515195	Plate, Valve
5	6604565	Stopper, Valve
6	6388482	Filter, Oil
7	6604805	Extension, Oil Filler
8	6853477	Dipstick, Oil
9	6604821	Tube, Breather
10	0928051	Bolt, Flange (5x10)
11	2488187	Bolt, Flange (6x45)
12	3509528	Holder, Oil Filter
13	0748111	Bolt, Flange (6x25)
14	2108595	Oil Seal (35x52x8)
15	2280006	O-ring (22.5x2.2)
16	3141769	Bolt 2, Stud (8x28)
18	6698807	Switch Asm-oil Pressure
19	1169275	Bolt
17	0997320	Bearing, Radial Ball (6207)
20	0069310	Pin A, Dowel (8x14)

LABELS

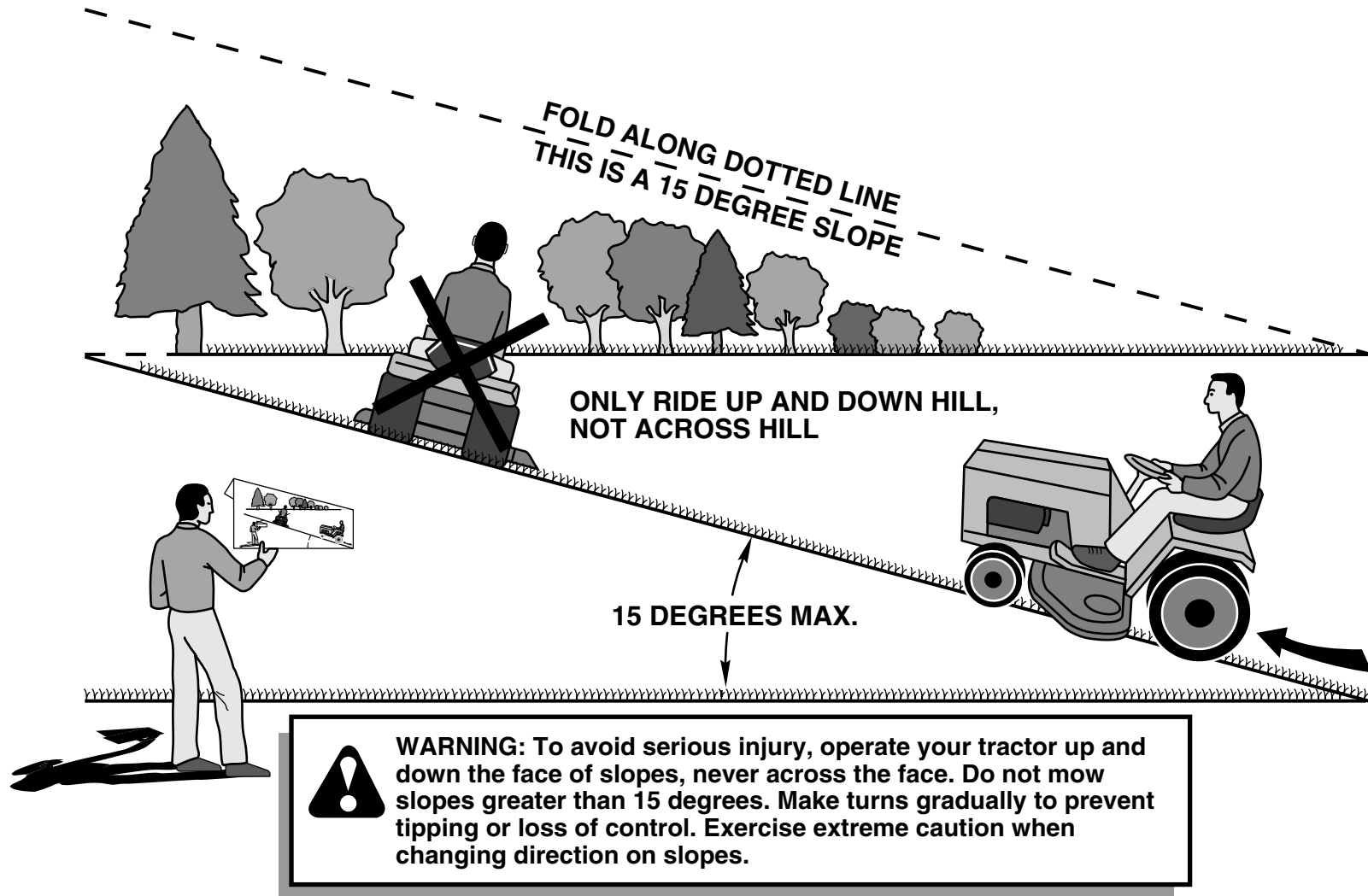
KEY NO.	PART NO.	DESCRIPTION
3	6607097	Mark, Operator Caution (Ec)
5	6607105	Mark, Honda
8	6853766	Mark, Emblem (Gxv530)

SERVICE NOTES

SERVICE NOTES

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



1. Fold this page along dotted line indicated above.
2. Hold page before you so that its left edge is vertically parallel to a tree trunk or other upright structure.
3. Sight across the fold in the direction of hill slope you want to measure.
4. Compare the angle of the fold with the slope of the hill.

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