

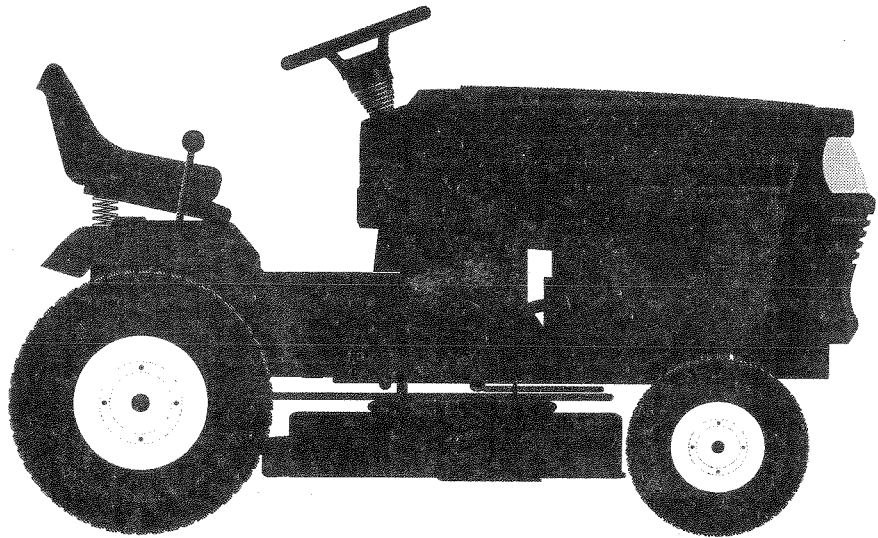
SEARS

**OWNER'S
MANUAL**

**MODEL NO.
944.605281**

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

3one™
Convertible



CRAFTSMAN®

18.0 HP

ELECTRIC START

3 in One Convertible

42" MOWER

6 SPEED TRANSAXLE

LAWN TRACTOR

- Assembly
- Operation
- Customer Responsibilities
- 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.

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.



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.



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

CONGRATULATIONS on your purchase of a Sears 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 Sears Authorized Service Centre/Department. We have competent, well-trained technicians and the proper tools to service or repair this unit.

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

MODEL NUMBER	944.605281
SERIAL NUMBER	_____
DATE OF PURCHASE	_____
THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT.	
YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.	

PRODUCT SPECIFICATIONS

HORSEPOWER:	18.0
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/ FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS
SPARK PLUG: (GAP: .025")	CHAMPION RV17YC
VALVE CLEARANCE:	INTAKE: .003" - .006" EXHAUST: .013" - .016"
GROUND SPEED (MPH):	FORWARD: 1st 1.1 2nd 1.4 3rd 2.0 4th 3.0 5th 4.2 6th 5.0 REVERSE: 1.5
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	15 AMP @ 3600 RPM
BLADE BOLT TORQUE:	30-35 FT. LBS.

MAINTENANCE AGREEMENT

A Sears 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 unit.
- Follow the instructions under "Customer Responsibilities" 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 Sears Authorized Service Centre/Department (See REPAIR PARTS section of this manual).

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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.

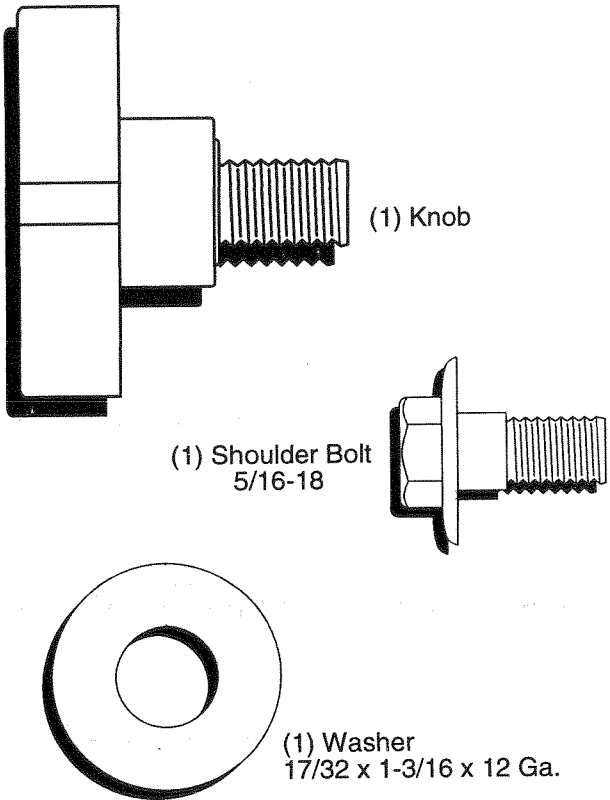
Warranty service is available by returning the Craftsman Riding Equipment to the nearest Sears Service Centre/Department in Canada. This warranty applies only while this product is in use in Canada.

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.

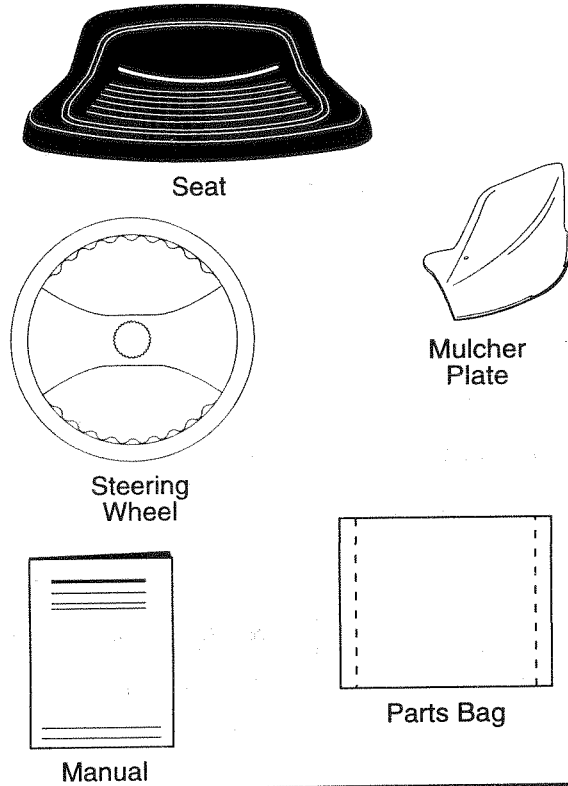
SEARS CANADA, INC., TORONTO, ONTARIO M5B 2B8

CONTENTS OF HARDWARE PACK

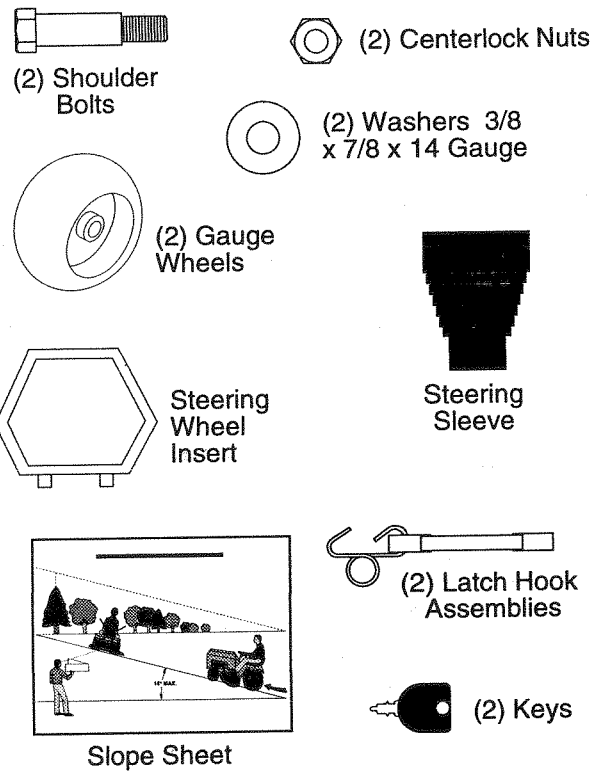
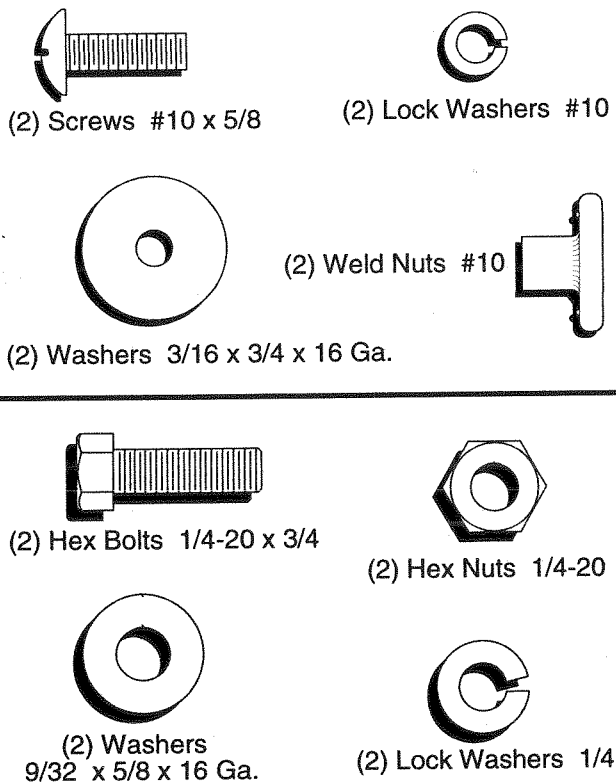
Parts Bag contents shown full size



Parts packed separately in carton



Parts bag contents not shown full size



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.

- (2) 7/16" wrenches 3/4" Socket w/drive ratchet
- (1) 1/2" wrench Tire pressure gauge
- (1) 9/16" wrench Phillips Screwdriver

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 (See page 6).
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- Check for any additional loose parts or cartons and remove.

BEFORE ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL (See Fig. 1)

- Remove locknut and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide the steering sleeve over the steering shaft.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Secure steering wheel to steering shaft with locknut and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective plastic 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.

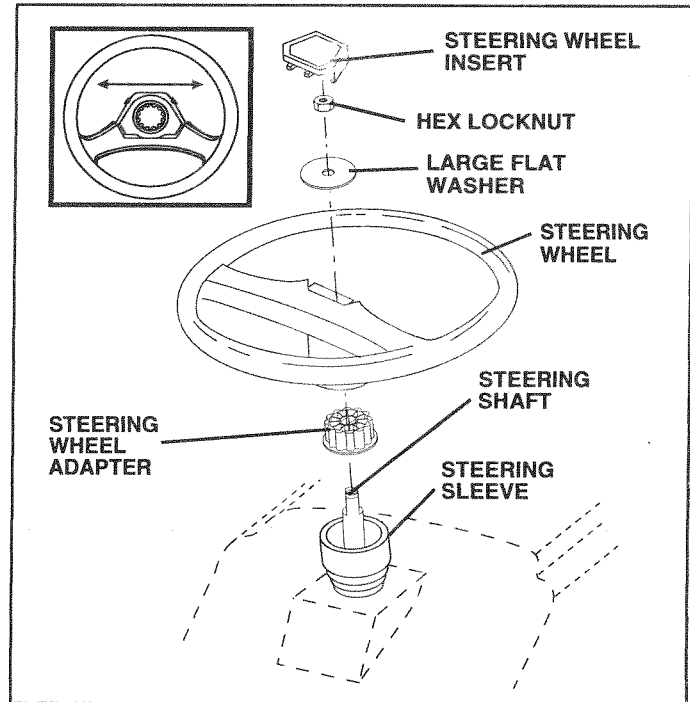


FIG. 1

TO ROLL TRACTOR OFF SKID (See Fig. 8)

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- Roll tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

ASSEMBLY

CONNECT BATTERY (See Fig. 2)



CAUTION: Do not short battery terminals. 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.
- Open terminal access doors, 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.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Close terminal access doors.

Use terminal access doors for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging.

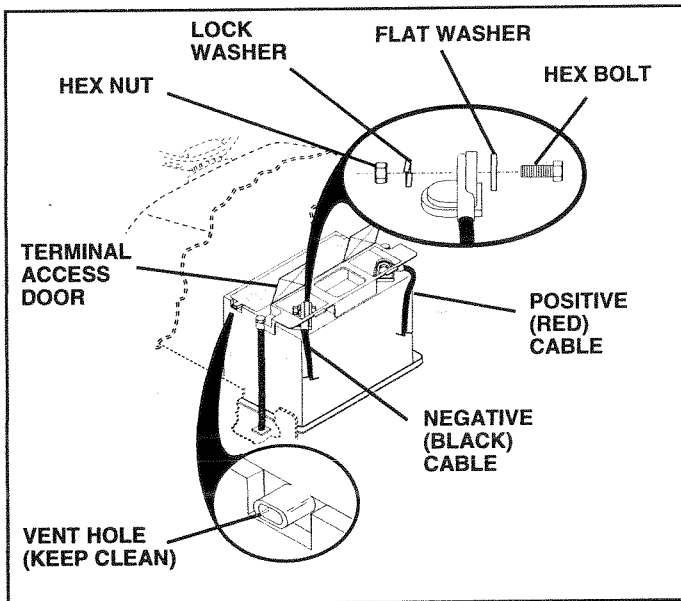


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

- Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- Tighten shoulder bolt securely.
- 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.

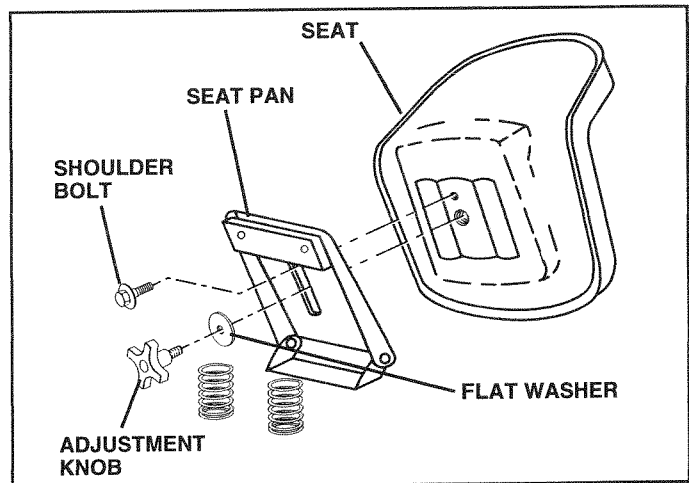


FIG. 3

ASSEMBLY

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" on page 3 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.

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

Assemble 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).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/8 washer and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.

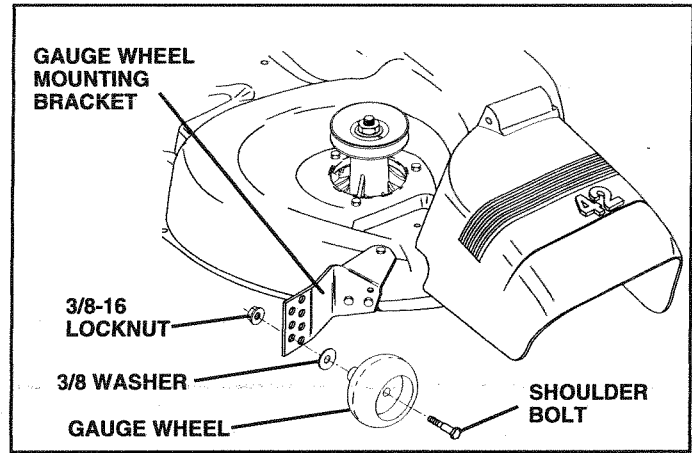


FIG. 4

ASSEMBLY

INSTALL MULCHER PLATE (See Figs. 5 and 6)

- Install two latch hooks to mulcher plate using screw, washer, lock washer, and weld nut as shown.

NOTE: Pre-assemble weld nut to latch hook by inserting weld nut from the top with hook pointing down.

- Tighten hardware securely.
- 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 discharge guard from mower. Raise and hold guard when attaching mulcher plate and allow it to rest on plate while in operation.

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.

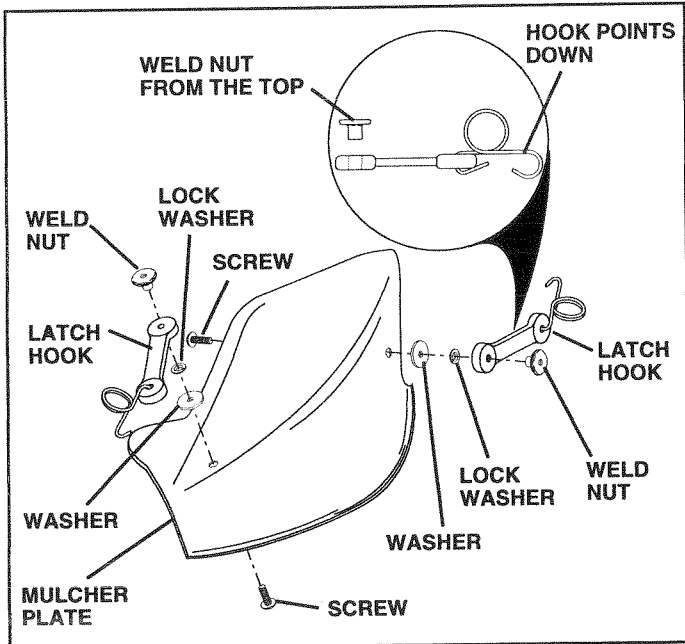


FIG. 5

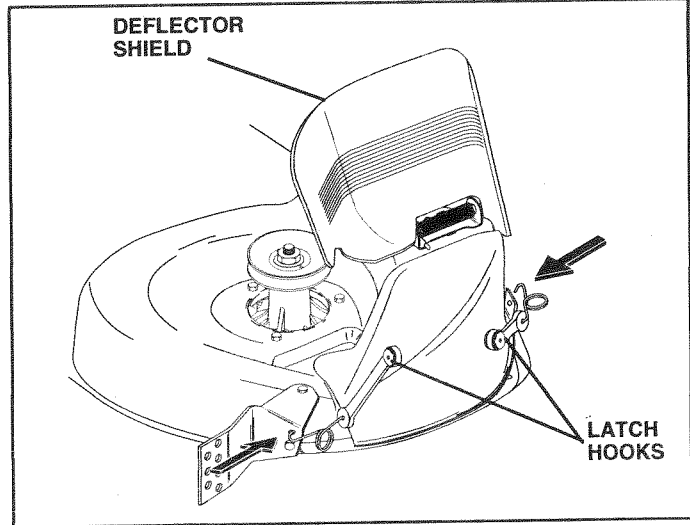


FIG. 6

✓ 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.

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.

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 location of various controls and adjustments. Save this manual for future reference.

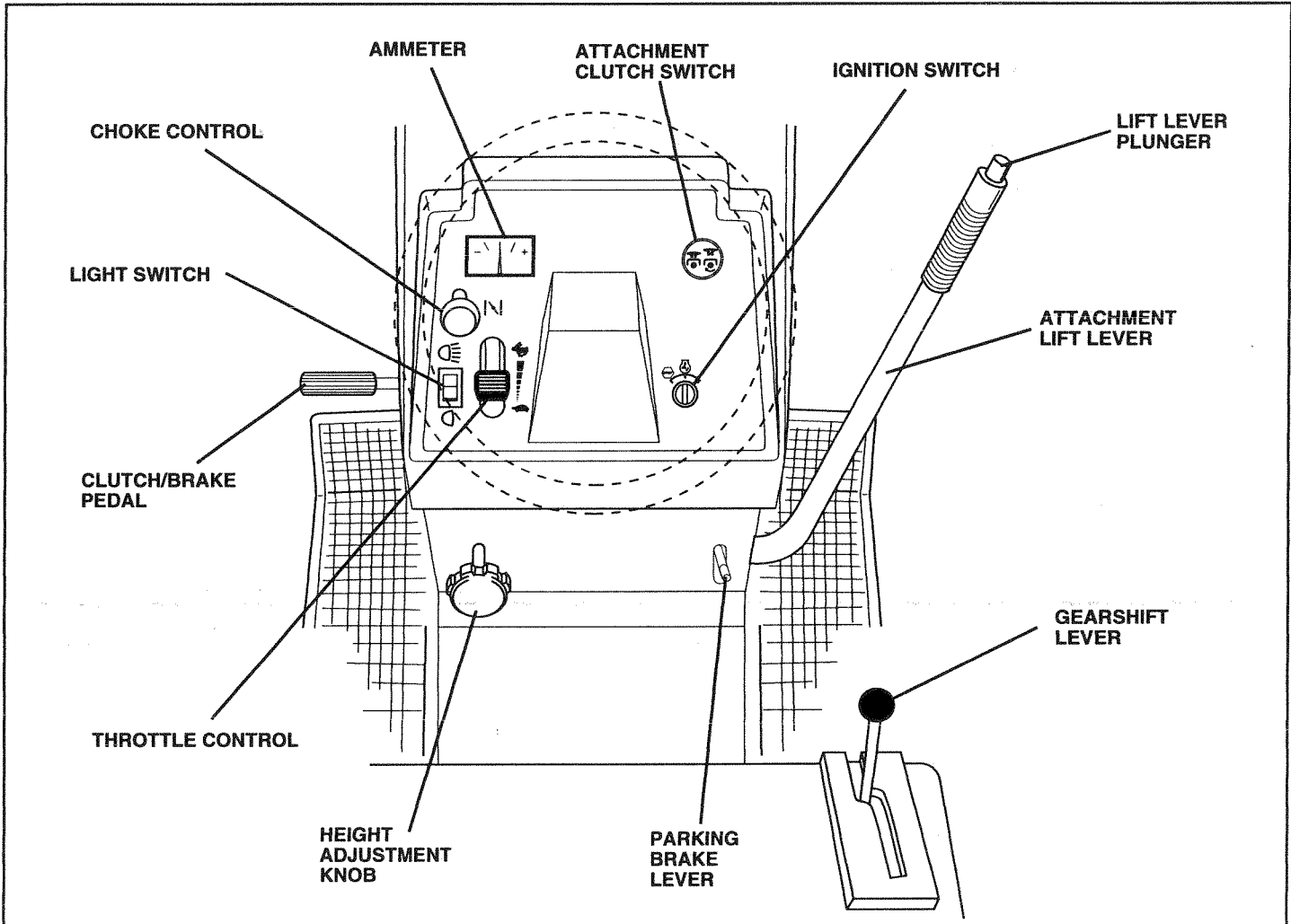


FIG. 7

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

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

CHOKE CONTROL - Used when starting a cold engine.

LIGHT SWITCH - Turns the headlights on and off.

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

THROTTLE CONTROL - Used to control engine speed.

HEIGHT ADJUSTMENT KNOB - Used to adjust the mower height.

ATTACHMENT CLUTCH SWITCH - Used to engage mower blades or other attachments mounted to your tractor.

IGNITION SWITCH - Used to start and stop the engine.

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

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

GEARSHIFT LEVER - Selects the speed and direction of the tractor.

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

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 for over the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 8)

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

STOPPING (See Fig. 8)

MOWER BLADES -

- Move attachment clutch switch to "DISENGAGED" position.

GROUND DRIVE -

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to neutral (N) position.

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.

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. 8)

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. 8)

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. 8)

The direction and speed of movement is controlled by the gearshift lever.

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement.

IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

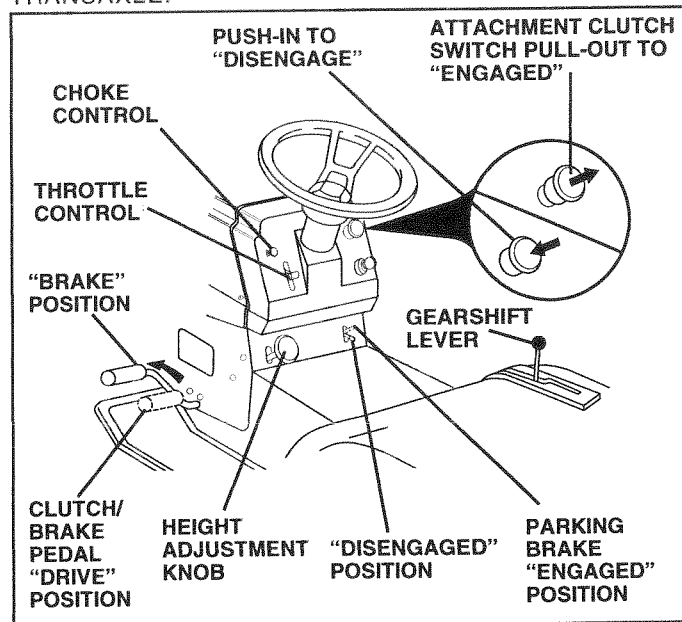


FIG. 8

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 8)

The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob clockwise (↻) to raise cutting height.
- Turn knob counterclockwise (↺) to lower cutting height.

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.

OPERATION

TO OPERATE MOWER (See Fig. 9)

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.

- Select desired height of cut.
- Lower mower with attachment lift control.
- 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 discharge guard in place.

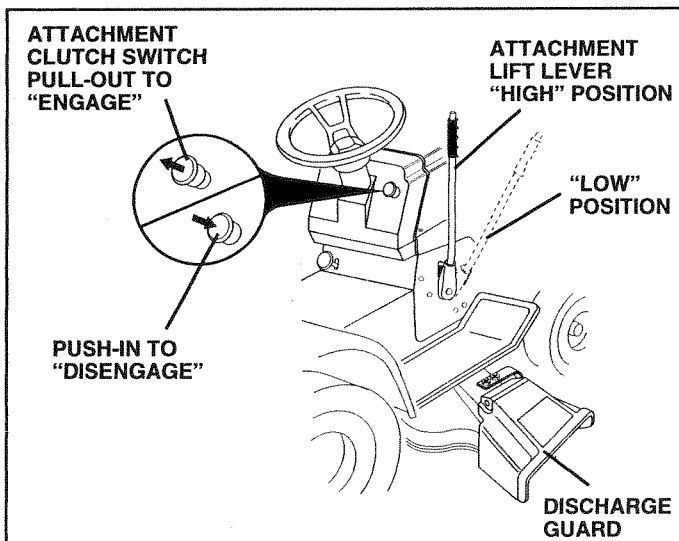


FIG. 9

TO OPERATE ON HILLS



CAUTION: 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 slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly

TO TRANSPORT

- Raise attachment lift to highest position with attachment lift control.
- When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position.
- Do not push or tow tractor at more than five (5) MPH.

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.).

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 15)

- 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.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and push it all the way down into the tube, wait for a few seconds, 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 Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

ADD GASOLINE

- Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life).

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

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



CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

CUSTOMER RESPONSIBILITIES

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" on page 3 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.

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 hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

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

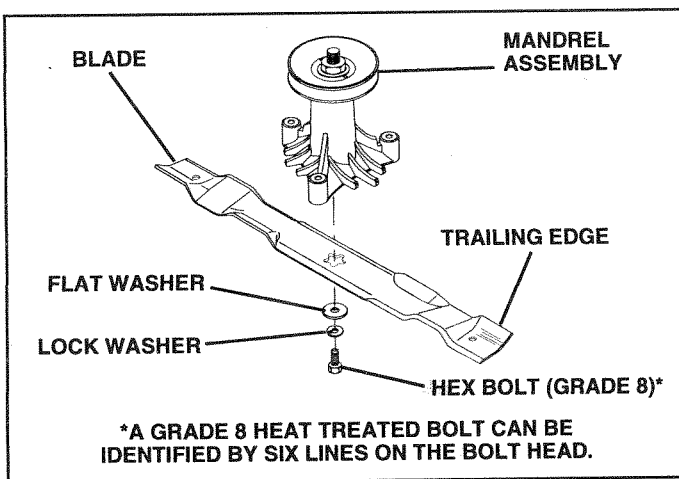


FIG. 12

TO SHARPEN BLADE (See Fig. 13)

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.)
- 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.

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

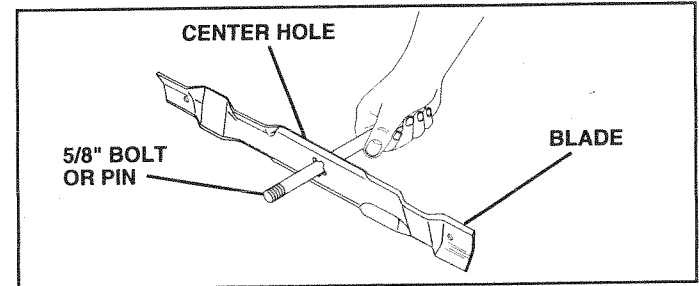


FIG. 13

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 (See "CONNECT BATTERY" in the Assembly section of this manual).
- Recharge at 6-10 amperes for 1 hour.

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.
- Wash battery with solution of four tablespoons of baking soda to one gallon of water. Be careful not to get the soda solution into the cells.
- 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).

CUSTOMER RESPONSIBILITIES

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

Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

ENGINE

LUBRICATION

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

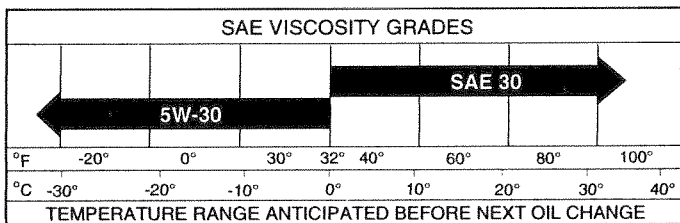


FIG. 14

NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after the first two hours of operation and every 50 hours thereafter 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. Tighten oil fill cap/dipstick securely each time you check the oil level.

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

Determine temperature range expected before oil change. All oil must meet API service classification SF or SG.

- 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 drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick is in all the way for accurate reading. Keep oil at "FULL" line on dipstick.

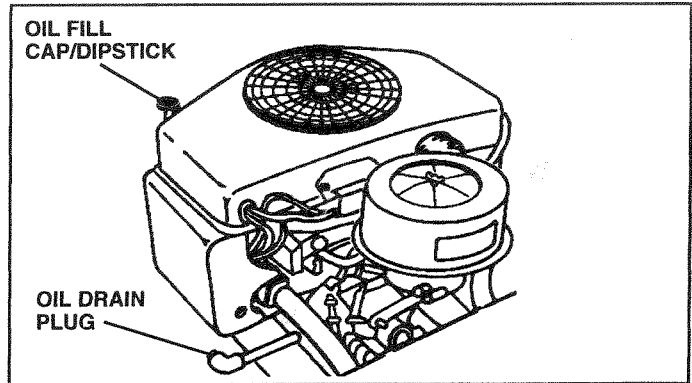


FIG. 15

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.

- Remove wing nut and cover.
- Remove seal and cartridge plate.

TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE

- Gently tap the flat side of the paper cartridge to dislodge dirt. Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge. Replace a dirty, bent, or damaged cartridge.
- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Reassemble air cleaner, cartridge plate, and seal.
- Install the air cleaner cover and wing nut. Tighten wing nut 1/2 turn to 1 full turn after nut contacts cover. Do not overtighten.

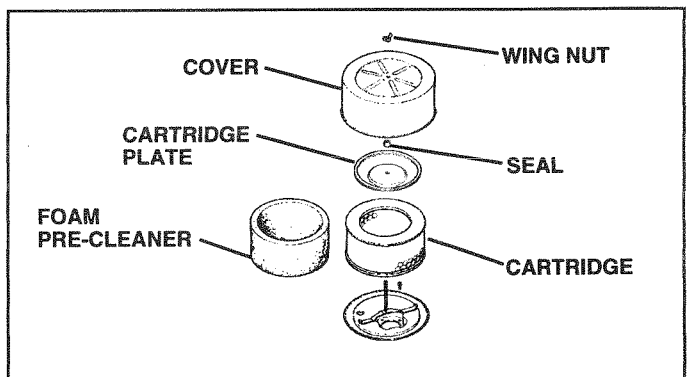


FIG. 16

CUSTOMER RESPONSIBILITIES

CLEAN AIR SCREEN (See Fig. 17)

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.

ENGINE COOLING FINS (See Fig. 17)

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating. Engine blower housing must be removed. Remove side panels and hood. See "TO REMOVE HOOD AND GRILL ASSEMBLY" in the Service and Adjustments section of this manual).

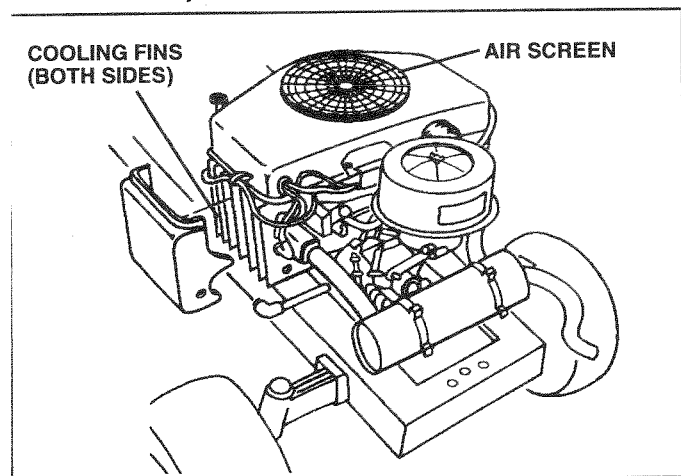


FIG. 17

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.

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" on page 3 of this manual.

IN-LINE FUEL FILTER (See Fig. 18)

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.

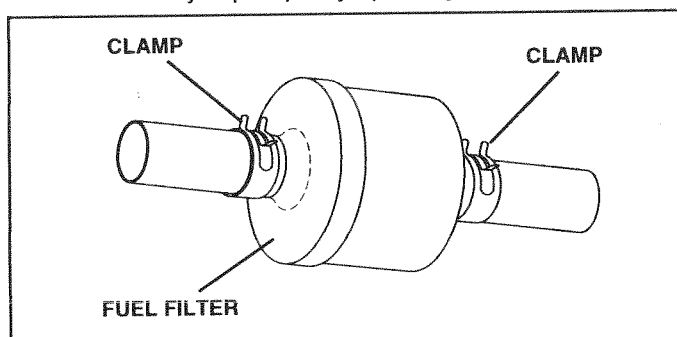


FIG. 18

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 to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

SERVICE AND ADJUSTMENTS



CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

- Depress clutch/brake pedal fully and set parking brake.
- Place gearshift lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key "OFF" 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. 19)

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

- Place attachment clutch switch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off electric clutch pulley.
- Disconnect anti-sway bar 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.

TO INSTALL MOWER (See Fig. 19)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with discharge guard to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.

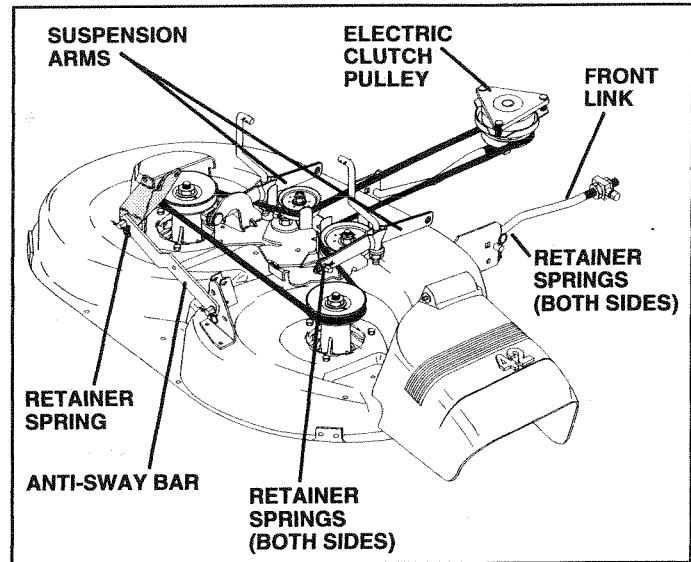


FIG. 19

SERVICE AND ADJUSTMENTS

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** on page 3 of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 20 and 21)

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.

FRONT-TO-BACK ADJUSTMENT (See Figs. 22 and 23)

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.

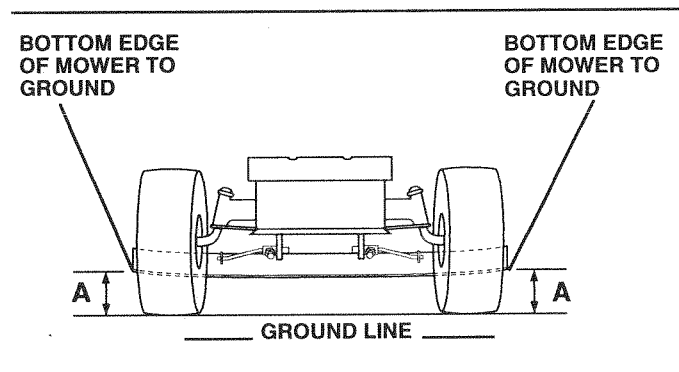


FIG. 20

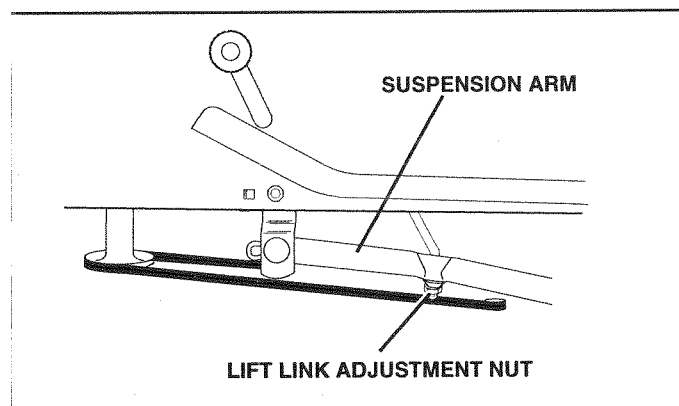


FIG. 21

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/4" to 3/4" 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. Both links should be approximately 10-3/8".
- 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 1/4" to 3/4" 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.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.

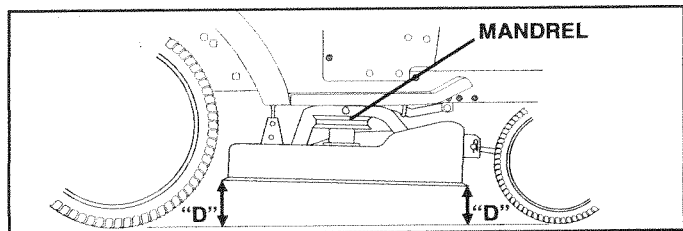


FIG. 22

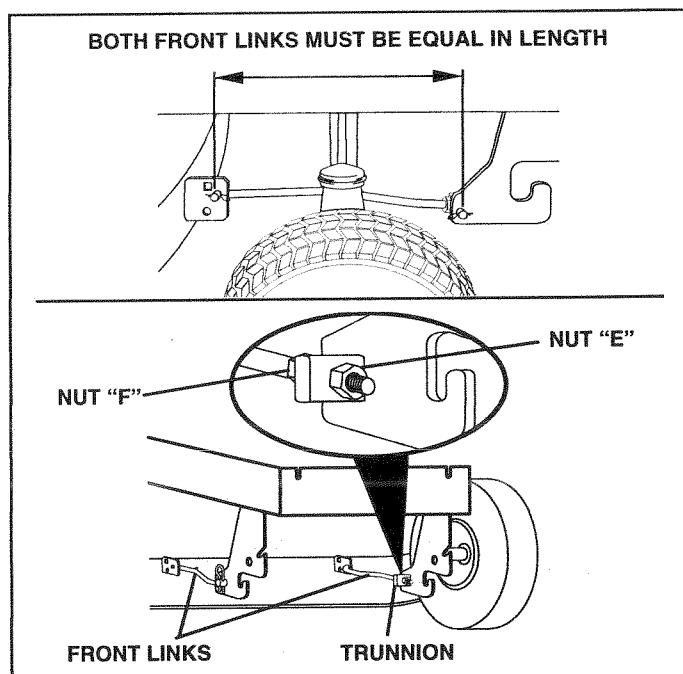


FIG. 23

SERVICE AND ADJUSTMENTS

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 24)

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 this manual).
- Work belt off both mandrel pulleys and idler pulleys.
- Pull belt away from mower.

BELT INSTALLATION -

- Install new belt in reverse order of removal.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install mower in reverse order of removal instructions.

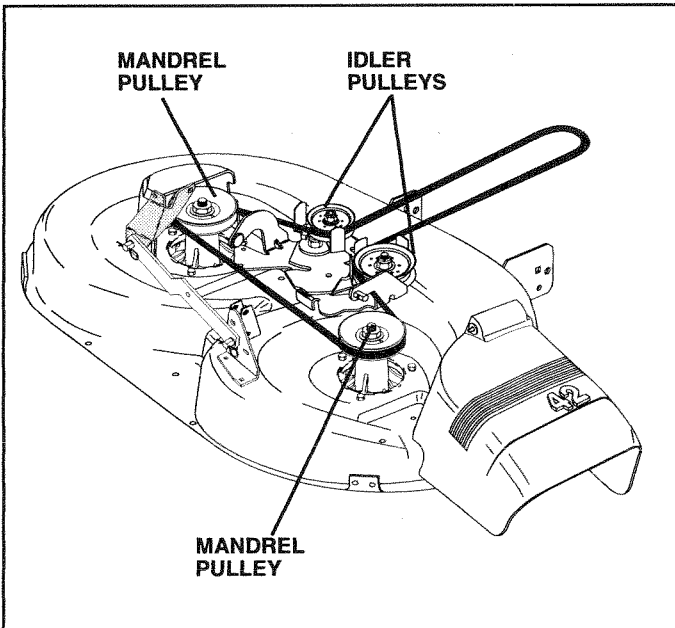


FIG. 24

TO ADJUST BRAKE (See Fig. 25)

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

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

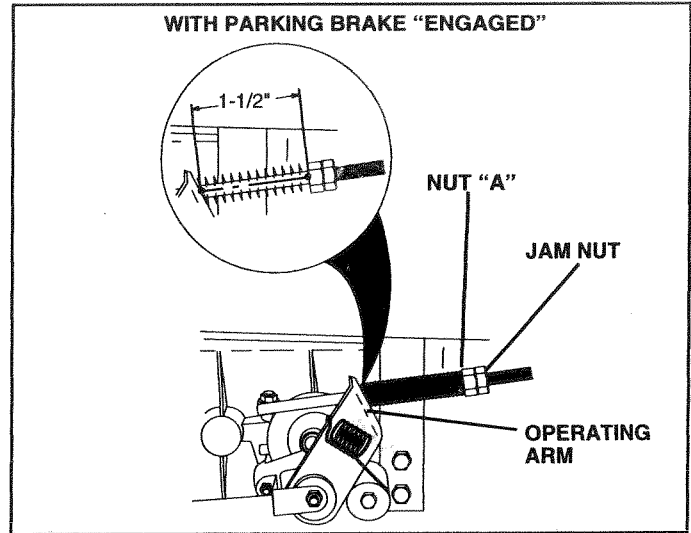


FIG. 25

TO REPLACE MOTION DRIVE BELT (See Fig. 26)

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Disconnect clutch wire harness.
- Remove clutch locator.
- Remove upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from around electric clutch.
- Install new belt by reversing above procedure.

IMPORTANT: MAKE SURE UPPER BELT KEEPER IS POSITIONED PROPERLY BETWEEN LOCATOR TABS AND ELECTRIC CLUTCH WIRE CONNECTION IS SECURE.

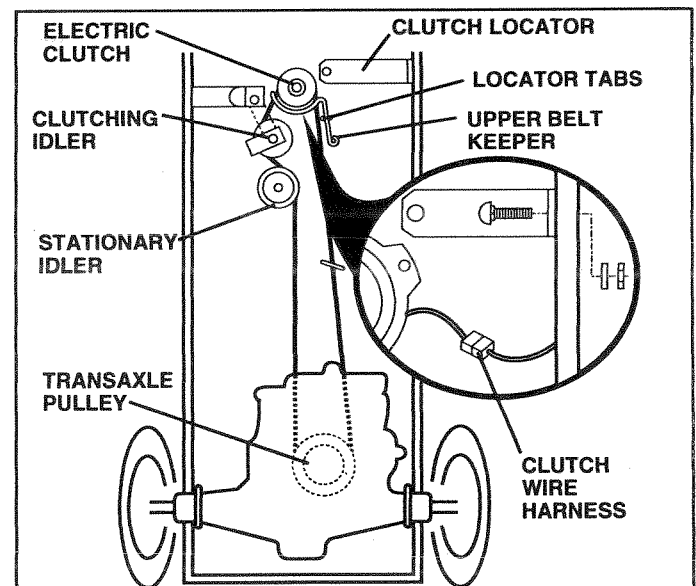


FIG. 26

SERVICE AND ADJUSTMENTS

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. 27)

- 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.

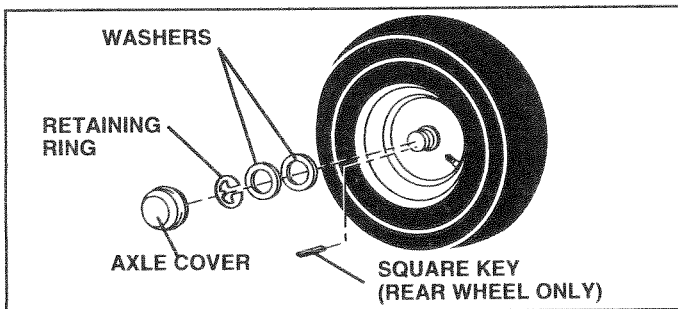


FIG. 27

TO START ENGINE WITH A WEAK BATTERY

(See Fig. 28)



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

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

TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable 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.

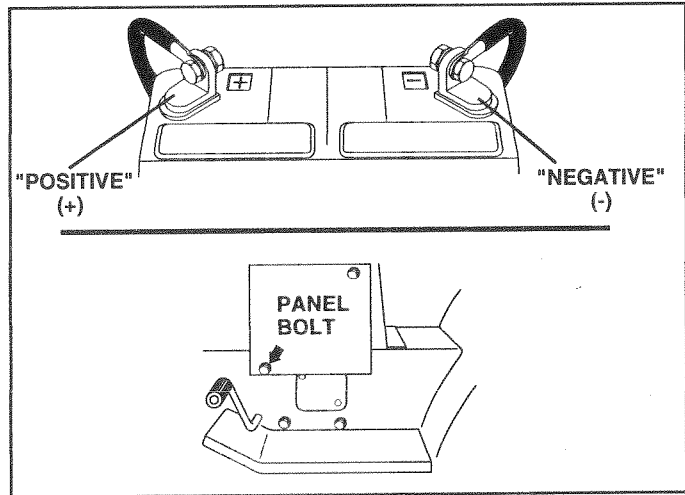


FIG. 28

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 of this manual.

TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL ASSEMBLY

(See Fig. 29)

- 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.

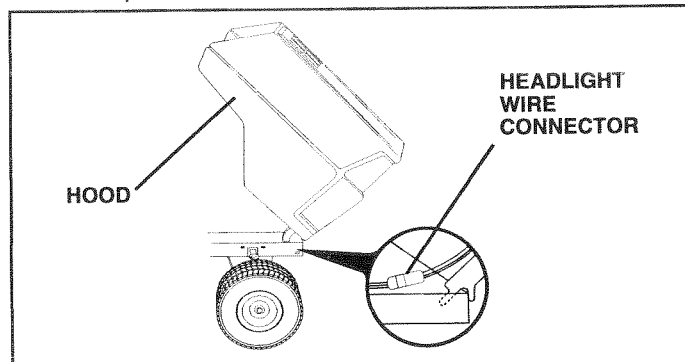


FIG. 29

SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 30 & 31)

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move throttle control lever to fast (☛) position.
- Check that speed control lever is against stop screw. If it is not, loosen casing clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.

TO ADJUST CARBURETOR (See Fig. 32)

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows:

In general, turning the adjusting needles **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable is adjusted properly (see above).
- With engine off turn idle fuel adjusting needle **in** (clockwise) closing it finger tight and then turn **out** (counterclockwise) 1-1/4 turns.
- Turn main fuel adjusting needle **in** (clockwise) closing finger tight and then turn **out** (counterclockwise) 1 turn.

FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- With throttle control lever in fast (☛) position, turn main fuel adjusting needle **in** (clockwise) until engine begins to die then turn **out** (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Idle speed setting - With throttle control lever in slow (☛) position, engine should idle at 1400 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting - With throttle control lever in slow (☛) position, turn idle fuel adjusting needle **in** (clockwise) until engine begins to die and then turn **out** (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

- Move throttle control lever from slow (☛) to fast (☛) position. If engine hesitates or dies, turn idle mixture screw **out** (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

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 YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

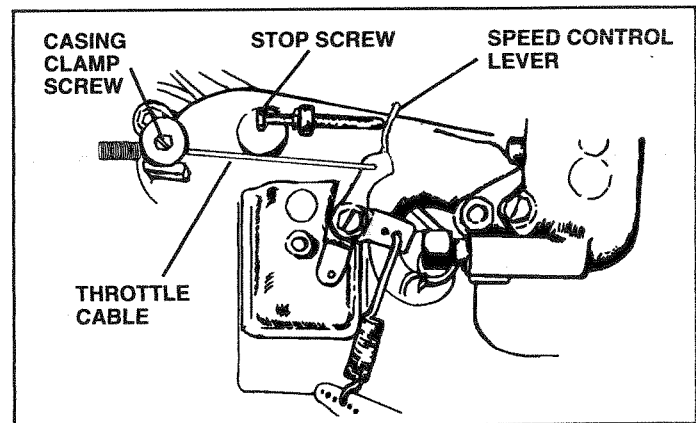


FIG. 30

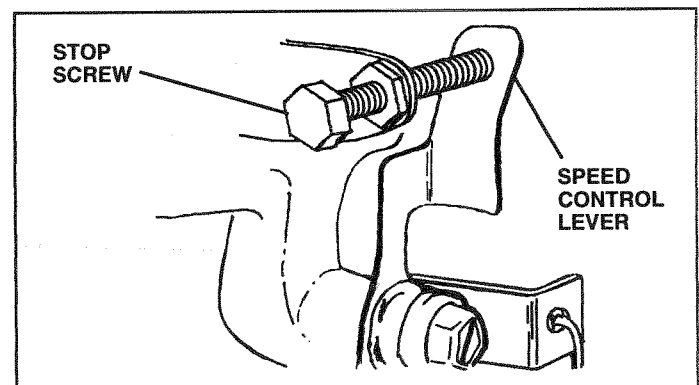


FIG. 31

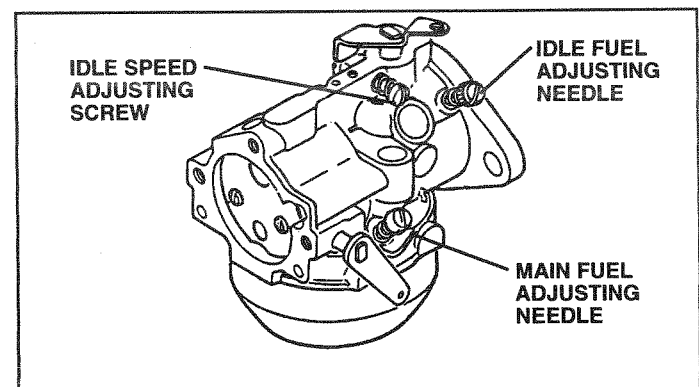


FIG. 32

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	<ol style="list-style-type: none"> 1. Faulty operator-safety presence control system. 	<ol style="list-style-type: none"> 1. Check wiring, switches and connections. If not corrected, contact an authorized service center/department.
Poor cut - uneven	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Obstruction in clutch mechanism. 2. Worn/damaged mower drive belt. 3. Frozen idler pulley. 4. Frozen blade mandrel. 	<ol style="list-style-type: none"> 1. Remove obstruction. 2. Replace mower drive belt. 3. Replace idler pulley. 4. Replace blade mandrel.
Poor grass discharge	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> 1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse. 	<ol style="list-style-type: none"> 1. Turn switch "ON". 2. Replace bulb(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.
Battery will not charge	<ol style="list-style-type: none"> 1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator. 	<ol style="list-style-type: none"> 1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.
Engine "backfires" when turning engine "OFF"	<ol style="list-style-type: none"> 1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	<ol style="list-style-type: none"> 1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 30 & 31)

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move throttle control lever to fast (☛) position.
- Check that speed control lever is against stop screw. If it is not, loosen casing clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.

TO ADJUST CARBURETOR (See Fig. 32)

The carburetor has been present at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows:

In general, turning the adjusting needles **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable is adjusted properly (see above).
- With engine off turn idle fuel adjusting needle **in** (clockwise) closing it finger tight and then turn **out** (counterclockwise) 1-1/4 turns.
- Turn main fuel adjusting needle **in** (clockwise) closing finger tight and then turn **out** (counterclockwise) 1 turn.

FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- With throttle control lever in fast (☛) position, turn main fuel adjusting needle **in** (clockwise) until engine begins to die then turn **out** (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Idle speed setting - With throttle control lever in slow (☞) position, engine should idle at 1400 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting - With throttle control lever in slow (☞) position, turn idle fuel adjusting needle **in** (clockwise) until engine begins to die and then turn **out** (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

- Move throttle control lever from slow (☞) to fast (☛) position. If engine hesitates or dies, turn idle mixture screw **out** (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

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 YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

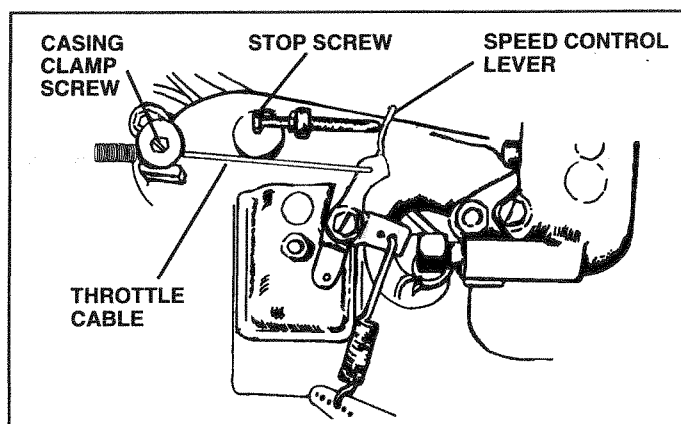


FIG. 30

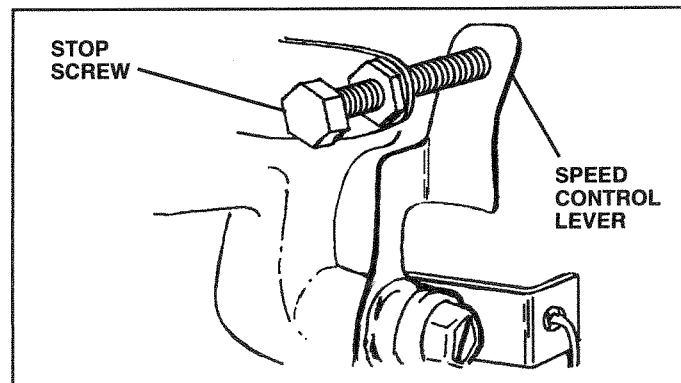


FIG. 31

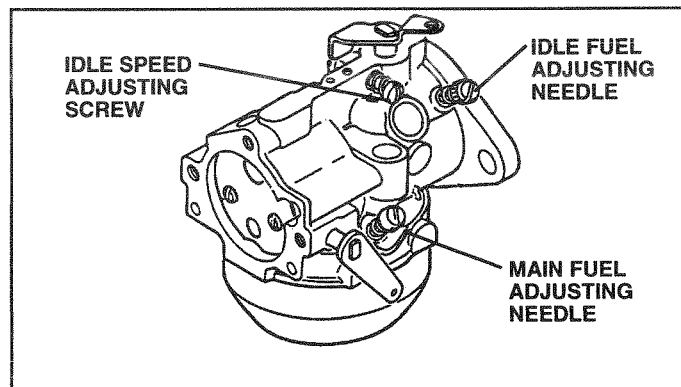


FIG. 32

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.



CAUTION: 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 Customer Responsibilities 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 Customer Responsibilities 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 Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- Be sure battery drain tube is securely attached.
- 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.

- Drain the fuel tank.
- Start 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 drain 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 Customer Responsibilities section of this manual).

CYLINDERS

- 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

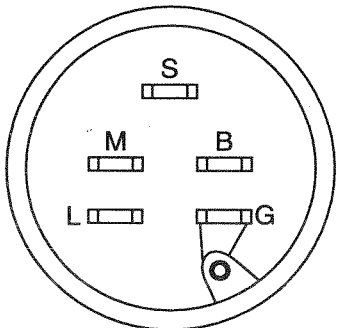
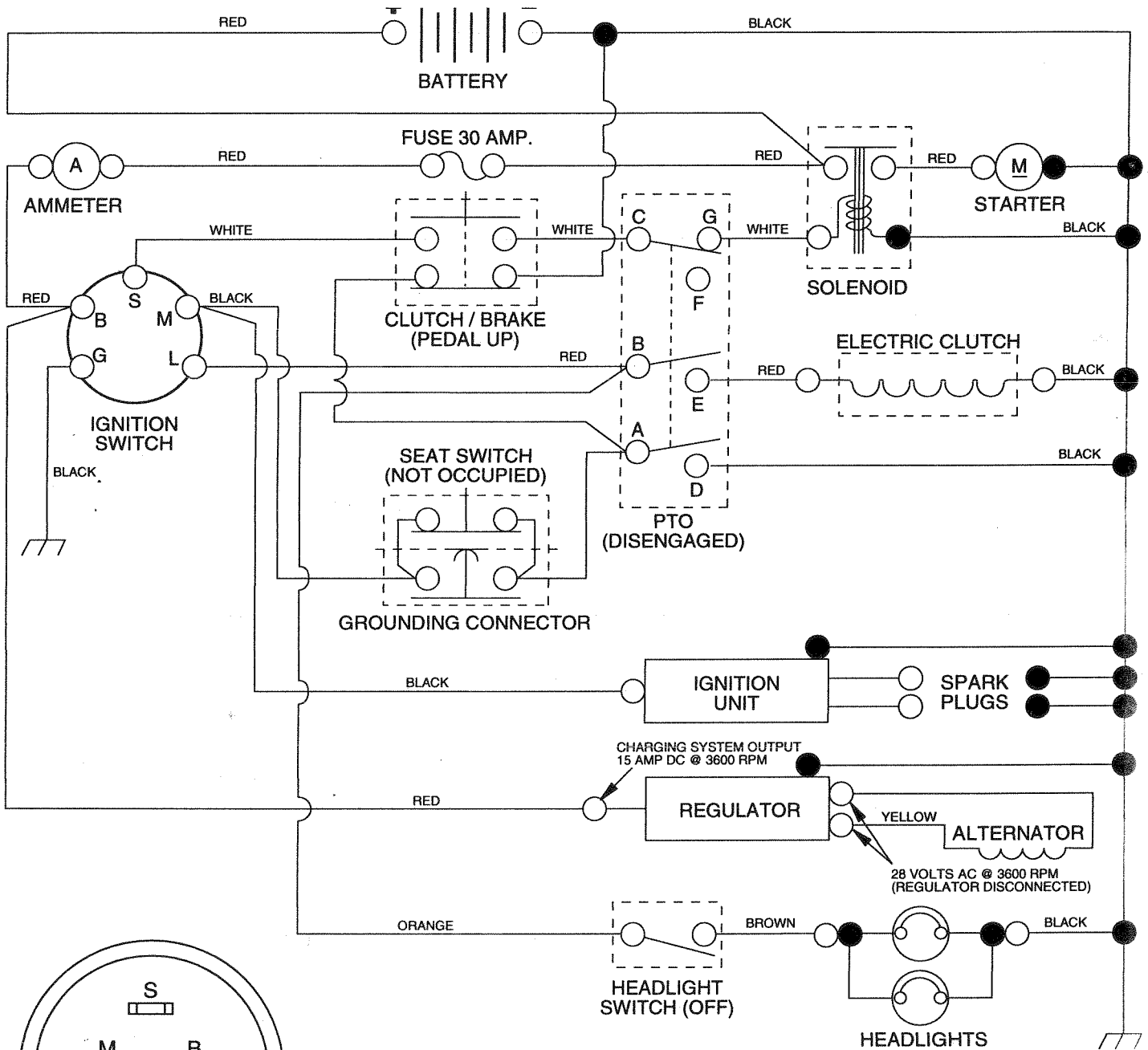
PROBLEM	CAUSE	CORRECTION
Will not start	<ol style="list-style-type: none"> 1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment. 	<ol style="list-style-type: none"> 1. Fill fuel tank. 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start. 4. Replace spark plug. 5. Clean/replace air filter. 6. Replace fuel filter. 7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring. 9. Contact an authorized service center/department. 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. Drain fuel tank and refill with fresh gasoline. 6. Check all wiring. 7. Contact an authorized service center/department. 8. Contact an authorized service center/department.
Engine will not turn over	<ol style="list-style-type: none"> 1. Clutch/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 clutch/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. Set in "Higher Cut" position/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. Drain fuel tank and refill with fresh gasoline. 9. Drain 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. Contact an authorized service center/department. 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	<ol style="list-style-type: none"> 1. Faulty operator-safety presence control system. 	<ol style="list-style-type: none"> 1. Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.
Poor cut - uneven	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Obstruction in clutch mechanism. 2. Worn/damaged mower drive belt. 3. Frozen idler pulley. 4. Frozen blade mandrel. 	<ol style="list-style-type: none"> 1. Remove obstruction. 2. Replace mower drive belt. 3. Replace idler pulley. 4. Replace blade mandrel.
Poor grass discharge	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> 1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse. 	<ol style="list-style-type: none"> 1. Turn switch "ON". 2. Replace bulb(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.
Battery will not charge	<ol style="list-style-type: none"> 1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator. 	<ol style="list-style-type: none"> 1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.
Engine "backfires" when turning engine "OFF"	<ol style="list-style-type: none"> 1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	<ol style="list-style-type: none"> 1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

TRACTOR -- MODEL NUMBER 944.605281

SCHEMATIC



IGNITION SWITCH

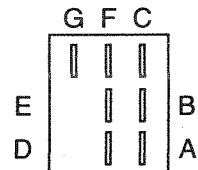
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

● NON-REMOVABLE CONNECTIONS

○ REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS

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



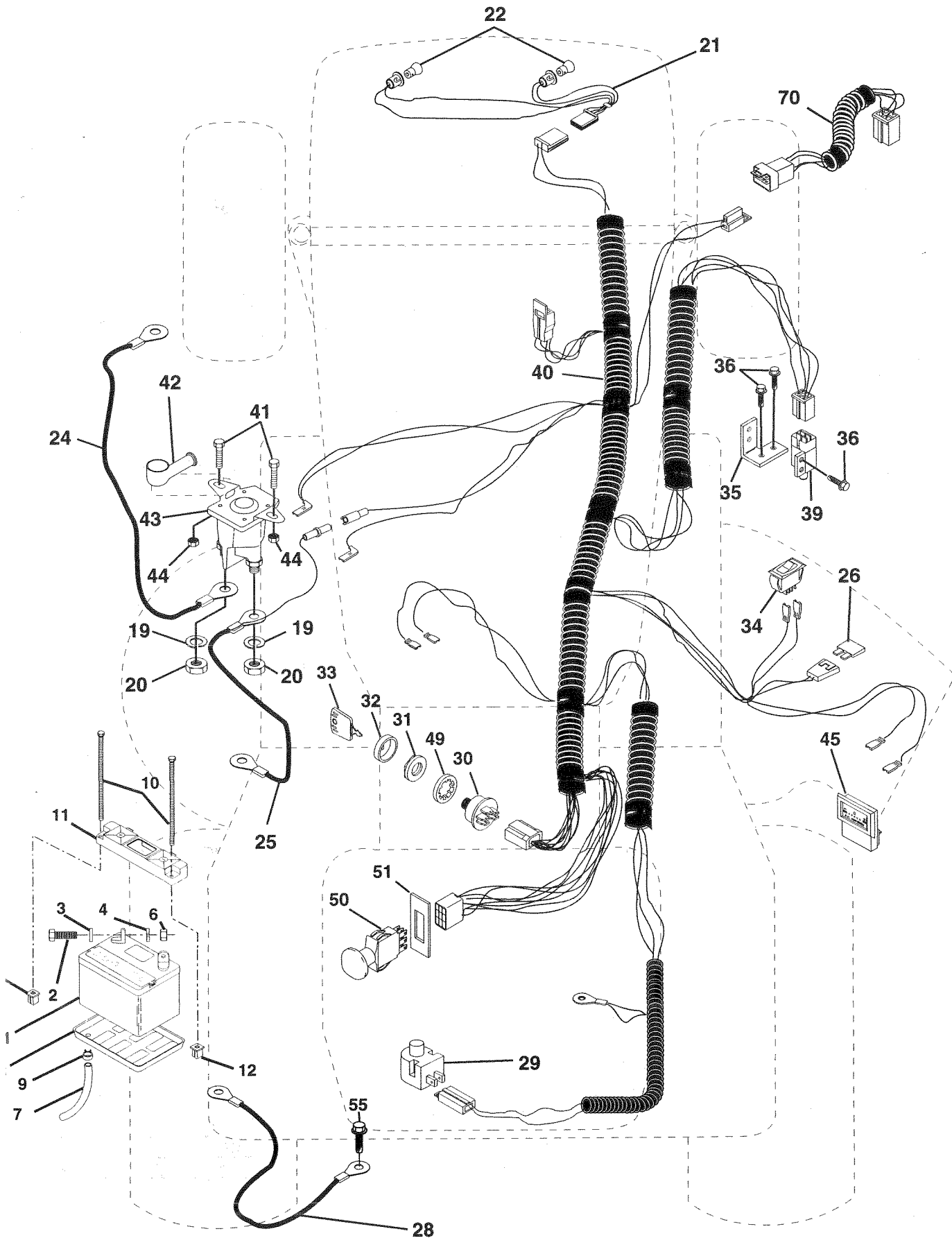
PTO SWITCH

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

ELECTRICAL



REPAIR PARTS

TRACTOR -- MODEL NUMBER 944.605281

ELECTRICAL

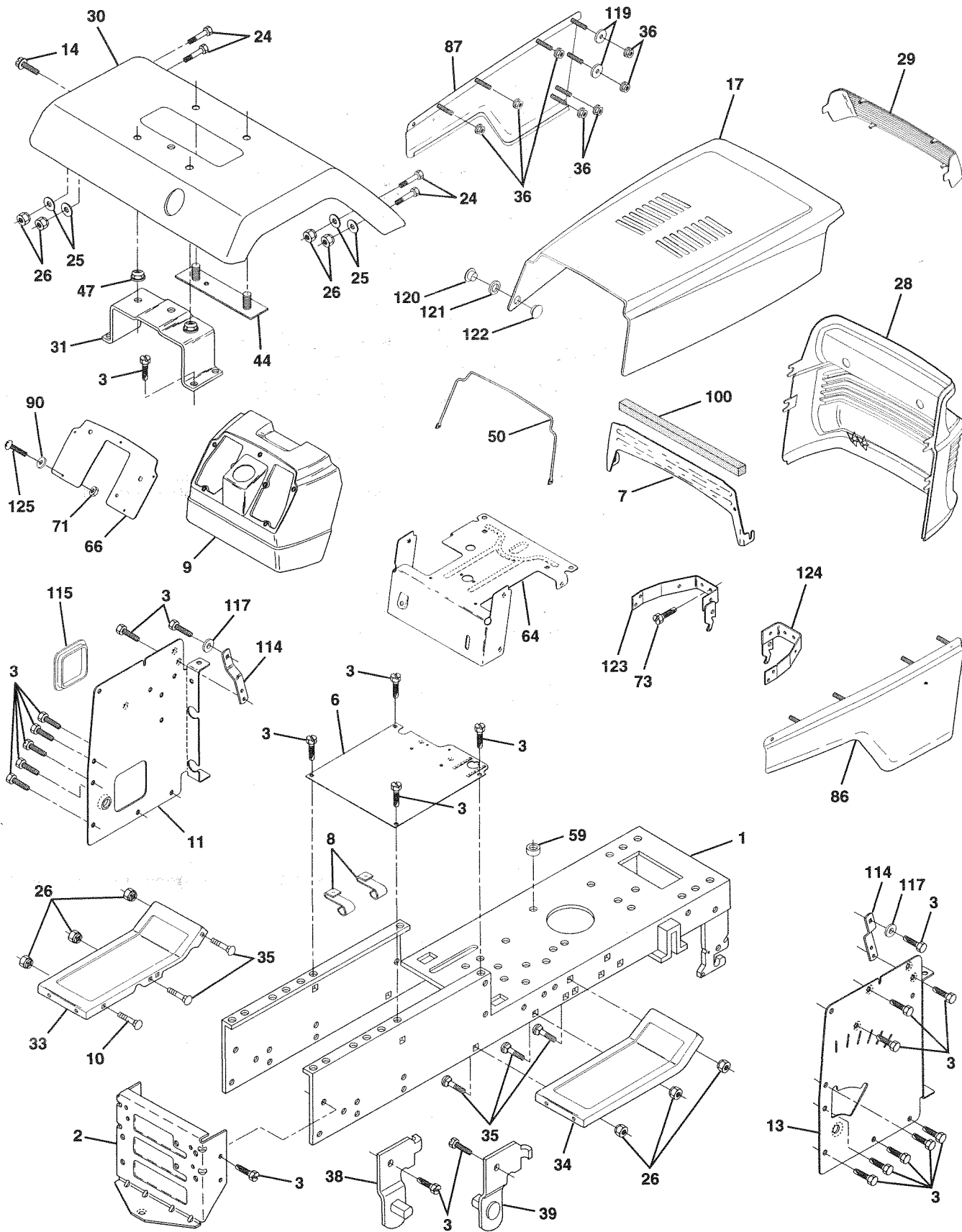
KEY NO.	PART NO.	DESCRIPTION
1	144926	Battery
2	74760412	Bolt, Hex 1/4-20 UNC x 3/4
3	STD551025	Washer
4	STD551125	Washer
6	STD541025	Nut
7	7697J	Tube, Plastic
8	7603J	Tray, Battery
9	109596X	Clamp, Hose
10	145211	Bolt Btr Frt 1/4-20 X 7.5 Zinc
11	145209	Holddown BATTERY Dash Mount
12	145769	Nut Push Nylon 1/4" Battery FRT
19	STD551125	Washer, Lock
20	73350400	Nut, Hex, Jam 1/4-20 UNC
21	136850	Harness, Light Socket w/4152J
22	4152J	Bulb, Light
24	4799J	Cable, Battery
25	146148	Cable Battery
26	108824X	Fuse
28	145491	Cable, Ground
29	121305X	Switch, Plunger
30	144921	Switch, Ignition
31	140400	Nut, Ignition
32	141226	Cover, Ignition Switch
33	140403	Key, Ignition
34	110712X	Switch, Light
35	108236X	Bracket, Switch
36	STD601005	Screw
39	109553X	Switch, Interlock
40	149170	Harness, Ignition
41	71110408	Bolt Blk Fin Hex 1/4-20 X 3/4
42	131563	Cover, Terminal
43	145673	Solenoid
44	73640400	Nut, Keps Hex 1/4-20 UNC
45	122822X	Adapter Ammeter Rectangular
49	11151000	Washer Lock internal Tooth 5/8
50	146283	Switch PTO 3 PDT Red Delta
51	140405	Ring Retainer PTO
55	17490508	Screw Thdrol 5/16-18 X 1/2 . TyT
70	140427	Harness Engine KOH 18 twin 15AR

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 944.605281

CHASSIS AND ENCLOSURES



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

CHASSIS AND ENCLOSURES

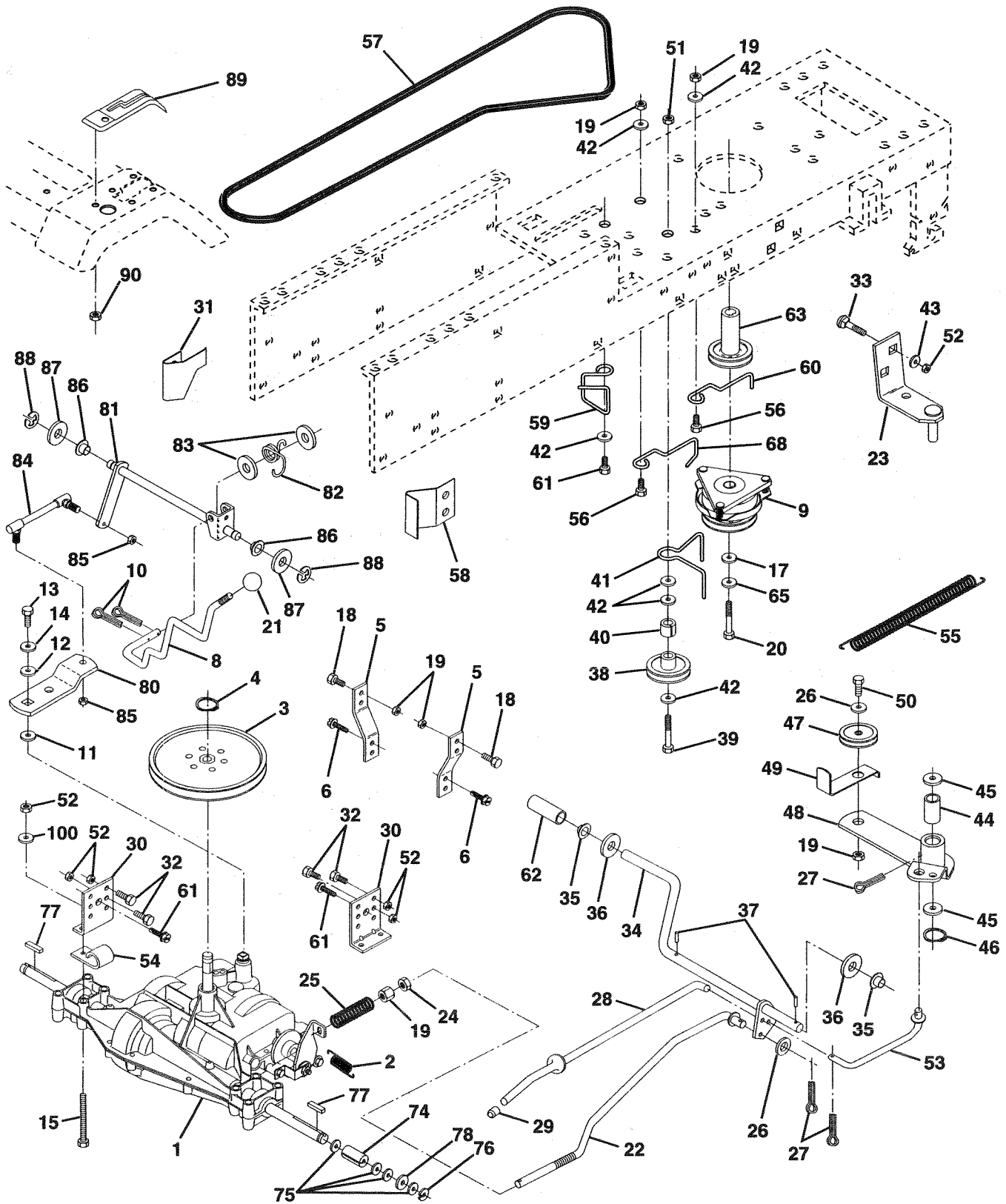
KEY NO.	PART NO.	DESCRIPTION
1	145501	Chassis
2	140356	Drawbar
3	17490612	Screw, Thdrol. 3/8-16 x 3/4 Type TT
6	145206	Saddle
7	145351	Shield Heat Kohler MV18
8	126471X	Clip, Fuel Line
9	145203	Dash, Plastic
10	72140608	Bolt, Carriage 3/8-16 x 1
11	145218	Panel, Dash, LH
13	145217	Panel, Dash, RH
14	17490608	Screw, Thdrol. 3/8-16 x 1/2 Type TT
17	136673X558	Hood Assembly
24	STD523710	Bolt
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Nut
28	136373X428	Grill
29	136374	Lens, Bar, Clear
30	140002X558	Fender
31	137113	Bracket Assembly, Fender
33	145244X558	Footrest, LH
34	145243X558	Footrest, RH
35	STD533707	Bolt
36	108067X	Nut, Pal
38	139886	Bracket Assembly, Pivot, LH
39	139887	Bracket Assembly, Pivot, RH
44	140675	Fender Strap
47	105531X	Nut, Push, Nylon
50	137304	Rod, Support Hood
59	110436X	Bushing, Snap, Split
64	145095	Dash, Lower
66	143485X014	Plate, Dash
71	73640400	Nut
73	17580408	Screw Tap Tite 1/4-20 x 1/2
86	136670X558	Panel Assembly, RH
87	136671X558	Panel Assembly, LH
90	STD551025	Washer 17/64
100	105037X	Strip Foam 18"
114	145349	Bracket, Support, Dash
115	121794X	Cover, Access
117	144283	Washer Serrated Disk 13/32 x 1
119	19092016	Washer 9/32 x 1-1/4 x 16 Ga.
120	137271	Rivet, Ratchet, Female
121	137269	Washer, Nylon
122	137270	Rivet, Ratchet, Male
123	136814	Bracket Assembly, Front Pivot Hinge, LH
124	136813	Bracket Assembly, Front Pivot Hinge, RH
125	74180412	Screw, Machine 1/4-20 x 3/4

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 944.605281

DRIVE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

DRIVE

Note: # 8 Electric Clutch should be 137140
which subs to 142600

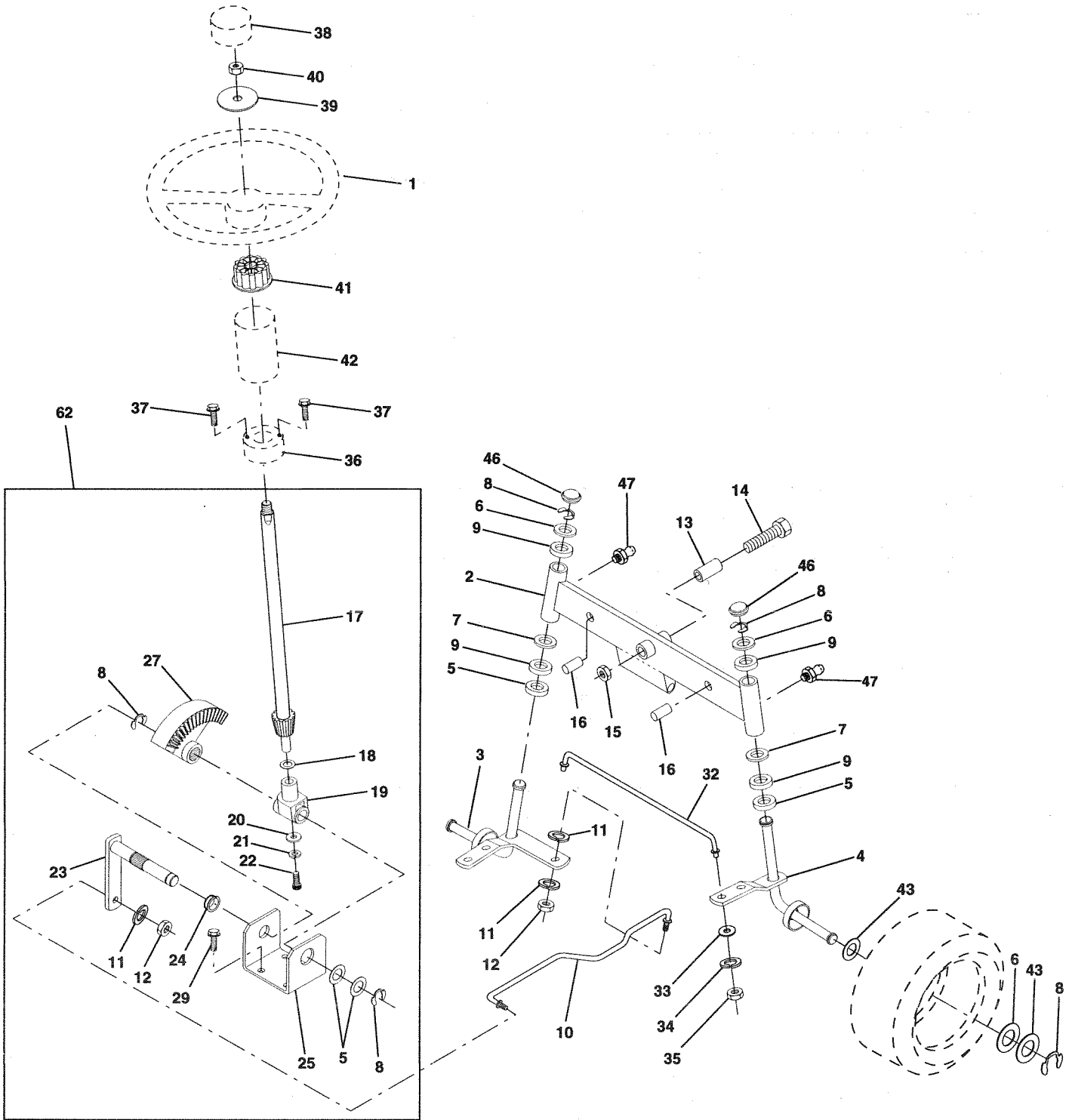
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	145607	Transaxle, Dana, 6 Speed 4360-81	43	19111012	Washer 11/32 X 5.8 X 12 Gauge
2	146682	Spring, Return, Brake	44	105706X	Bearing, Nylon
3	123666X	Pulley, Transaxle	45	110812X	Washer, Hardened
4	12000028	Ring, Retainer	46	12000039	Ring, Klip
5	121520X	Strap, Torque	47	127783	Pulley, Idler, V-Groove
6	17490512	Screw, Thd., Roll. 5/16-18 x 3/4 Type T	48	123789X	Bellcrank Assembly
8	141002	Rod, Shifter, Fender	49	123205X	Retainer, Belt
9	137141	Clutch Elect	50	STD523715	Bolt
10	STD561210	Pin	51	STD541437	Nut
11	105701X	Washer, Plate, Shifter	52	STD541431	Nut
12	19151216	Washer 15/32 x 3/4 x 16 Gauge	53	105710X	Link, Clutch
13	74550412	Bolt, 1/4-28 UNF Grade 8 W/Patch	54	2751R	Clip, Fuel Line
14	STD551125	Washer, Lock, Heavy Helical Spring	55	105709X	Spring, Return, Clutch
15	74780544	Bolt, Hex, Fin. 5/16-18 UNC x 2-1/2	56	STD523712	Bolt Fin Hex 3/8-16 Unc X 12 Ga.
17	126197X	Washer 1-1/2 OD X 15/32 IDX .250	57	130801	V-Belt, Ground Drive
18	STD523710	Bolt	58	127274X	Keeper, Belt, RH
19	STD541437	Nut	59	140312	Keeper, Chassis, Center Span Belt
20	71170768	Bolt Hex 7/16-20 X 4-1/4 Ga. 5	60	121218X	Keeper Belt Engine LH
21	106933X	Knob, Round	61	17490612	Screw, Thd., Roll. 3/8-16 x 3/4 Type TT
22	130804	Rod, Brake	62	8883R	Cover, Pedal, Round
23	137141	Bracket Asm. Mtg CL	63	140189	Pulley, Engine
24	STD541237	Nut	65	STD551143	Washer
25	106888X	Spring, Rod, Brake	68	105730X	Keeper, Belt, Engine
26	STD551037	Washer	74	109502X	Spacer, Split
27	STD561210	Pin	75	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
28	145204	Rod, Parking Brake	76	STD581075	E-Ring
29	124236X	Cap, Parking Brake, Red	77	123583X	Key, Square 2.0 x .1845/.1865
30	130807	Bracket, Transaxle Mounting	78	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
31	127275X	Keeper, Belt, LH	80	131487	Arm, Shift, Transaxle
32	STD523107	Bolt	81	136933	Shaft Assembly, Shifter
33	72140506	Bolt RDHD SWNK 5/16-18 UNC X 3/4	82	123782X	Spring, Torsion, Transaxle
34	149001	Shaft Assembly, Foot Pedal	83	19171216	Washer 17/32 x 3/4 x 16 Gauge
35	120183X	Bearing, Nylon	84	132183	Tie Rod
36	STD551062	Washer	85	73530400	Nut, Nylock 1/4-28
37	STD571810	Pin, Roll	86	71208	Bushing, Pivot
38	123674X	Pulley, Idler, Flat	87	19212016	Washer
39	STD523727	Bolt	88	12000008	E-Ring
40	4470J	Spacer, Split	89	139991	Console, Shifter, 6 Speed
41	109070X	Keeper, Belt Retainer	90	124346X	Nut Self-Thd Wsh. Hd. 1/4
42	19131312	Washer 13/32 x 13/16 x 12 Gauge	100	19111216	Washer 11/32 x 3/4 x 16 Ga.

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

STEERING ASSEMBLY



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

STEERING ASSEMBLY

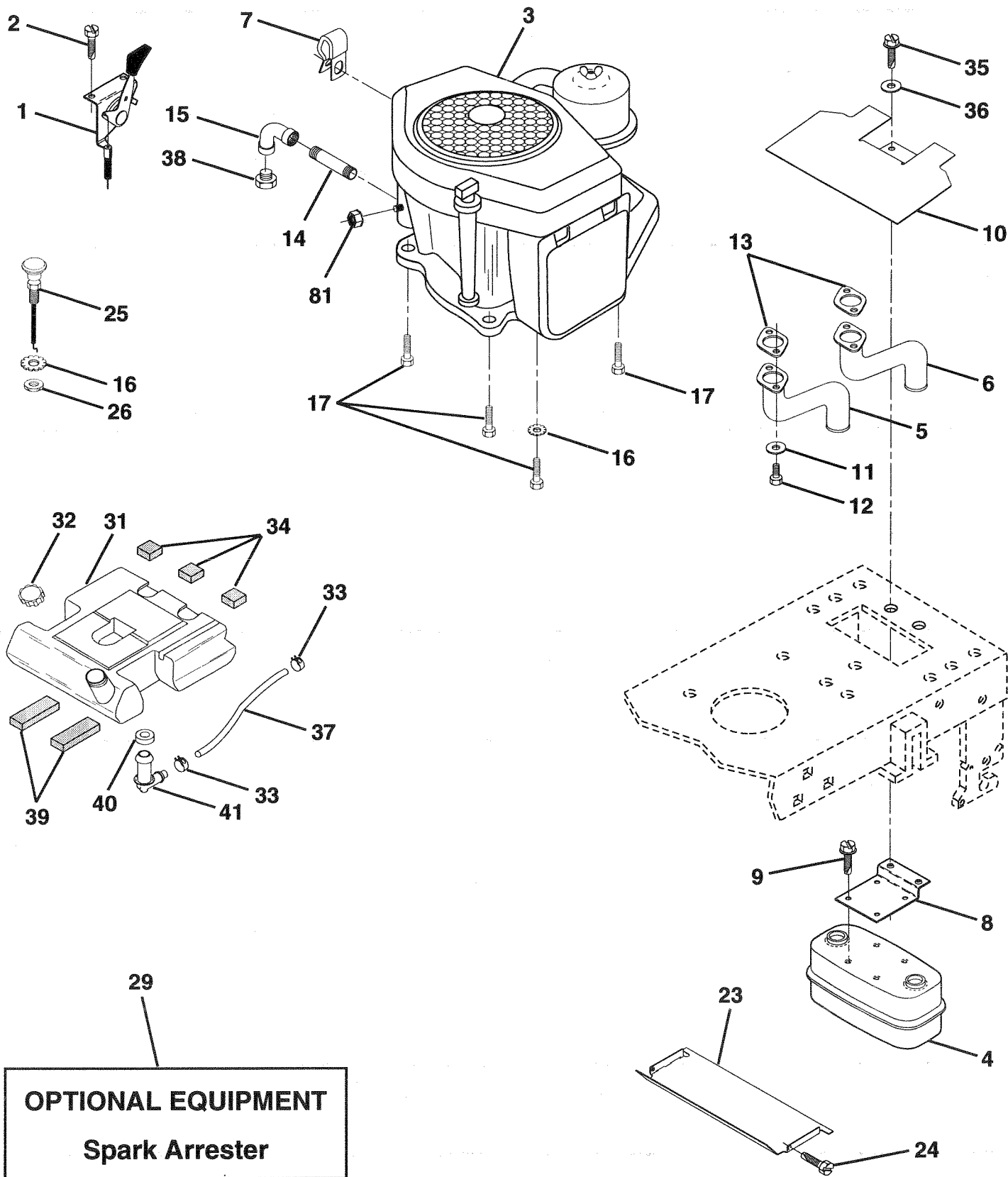
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	121472X	Steering Wheel			1/4-20 x 5/8
2	142033	Axle Assembly, Front	23	127501	Shaft Assembly, Pittman
3	135227	Spindle Assembly, LH	24	109816X	Nyliner, Snap-In
4	135228	Spindle Assembly, RH	25	124036X	Bracket, Steering
5	6266H	Bearing, Race, Thrust, Hardened	27	136874	Gear, Sector
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge	29	17490612	Screw Thdrol 3/8-16 X 3/4 Ty-TT
7	19272016	Washer 27/32 x 1-1/4 x 16 Gauge	32	130467	Tie Rod
8	12000029	Ring, Klip	33	19111216	Washer 11/32 X 3/4 X 16 Ga.
9	3366R	Bearing	34	STD551131	Washer Lock Hvy HLCL Spr. 5/16
10	130468	Link, Drag	35	STD541531	Locknut 5/16-24 UNF
11	STD551137	Washer, Lock	36	145207	Bushing, Steering
12	73610600	Nut, Hex, Fin. 3/8-24 UNF	37	17541008	Screw #10 - 16 x 1/2
13	110438X	Spacer, Bearing, Front Axle	38	126805X	Insert, Cap, Steering Wheel
14	74011056	Bolt, Hex 5/8-11 UNC x 3-1/2	39	100712K	Washer .53 x 2.25 x .160
15	73901000	Locknut, Hex, Jam, w/Washer Insert 5/8-11 UNC	40	STD541350	Nut
16	132624	Pin, Axle, Large 5/8 x 1.55/1.54	41	100711L	Adapter, Steering Wheel
17	128758	Shaft Assembly, Steering	42	140216	Boot Shat Steering
18	57079	Washer, Thrust .515 x .750 x .033	43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
19	124035X	Support, Shaft	46	121232X	Cap, Spindle
20	126684X	Washer, Shim 1/4 x 5/8 x .062	47	6855M	Fitting, Grease131672
21	STD551125	Washer	62	149682	Kit steer asm (18.31 X 3/4) SVC
22	71070410	Screw, Hex Socket Head			

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

ENGINE



REPAIR PARTS

TRACTOR -- MODEL NUMBER 944.605281

ENGINE

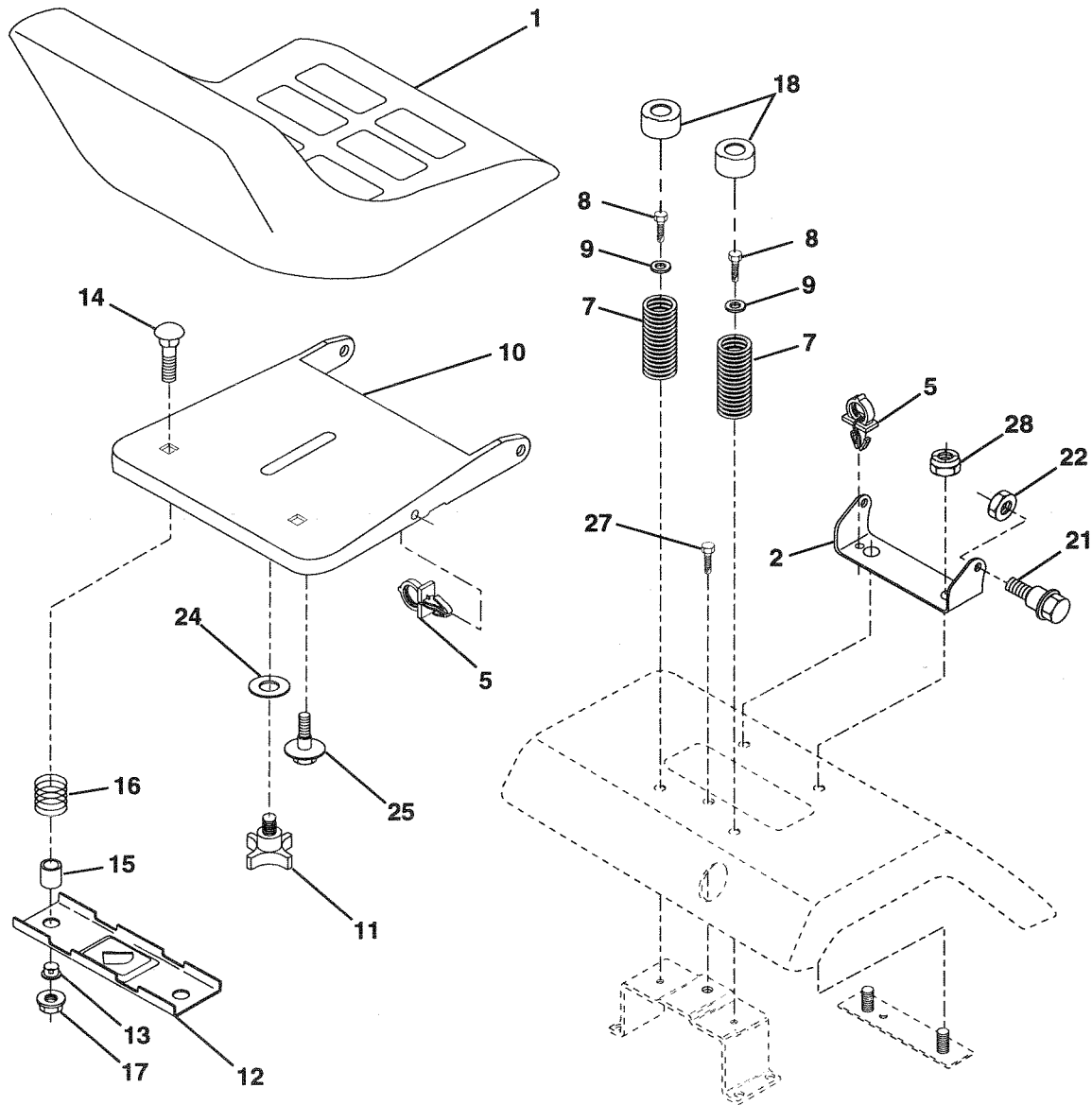
KEY NO.	PART NO.	DESCRIPTION
1	132755	Control, Throttle
2	17720410	Screw, Hex Head, Thread Cutting 1/4-20 x 5/8
3	141948	Engine, Kohler Model No. MV18.0S PS-58560
4	137978	Muffler, Exhaust
5	136215	Tube Manifold LH Kohler MV18
6	136216	Tube Manifold RH Kohler MV18
7	138129	Clamp Tube double engine
8	122439X	Bracket Muffler Mounting
9	17190408	Screw Hex WHS Thdcut 1/4-20 UNC
10	145552	Shield Heat
11	STD551131	Washer Lock Hvy HLCL Spr. 5/16
12	74570512	Screw Hex Skt 5/16 UNV x 3/4
13	-----	Gasket (Order From Engine Manufacturer)
14	13280336	Nipple, Pipe
15	13200300	Elbow, Standard 90°, 3/8-18 NPT
16	11050600	Washer, Lock
17	17490624	Screw Thdrol 3/8-16 x 1-1/2 TT
23	128953	Shield, Heat
24	STD601005	Screw
25	138672	Control Choke
26	73610600	Nut Fin Hex 3/8-24 UNF
29	137180	Arrester, Spark
31	141069	Tank, Fuel
32	123549X	Cap Assembly, Fuel
33	123487X	Clamp, Hose
34	106082X	Spacer, Pad
35	17490512	Screw Thdrol 5/16-18 x 3/4 TYT
36	19132012	Washer 13/32 x 1-1/4 x 12 Ga.
37	8543R	Line, Fuel
38	-----	Plug, Oil Drain (Order From Engine Manufacturer)
39	109227X	Spacer Pad
40	3645J	Bushing
41	139277	Stem, Fuel Tank
81	73510400	Nut Keps Hex 1/4-20 UNC

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

DECALS



KEY NO.	PART NO.	DESCRIPTION
1	140123	Seat
2	140551	Bracket, Pivot, Seat
5	145006	Clip Push-In
7	124181X	Spring, Seat
8	17490508	Screw Thdrol. 5/16-18 x 1/2
9	19131614	Washer 13/32 x 1 x 14 Gauge
10	140552	Pan, Seat
11	120068X	Knob, Seat
12	121246X	Bracket, Switch Mounting
13	121248X	Bushing, Snap, Nylon
14	72050411	Bolt, Carriage 1/4-20 x 1-3/8
15	134300	Spacer, Split

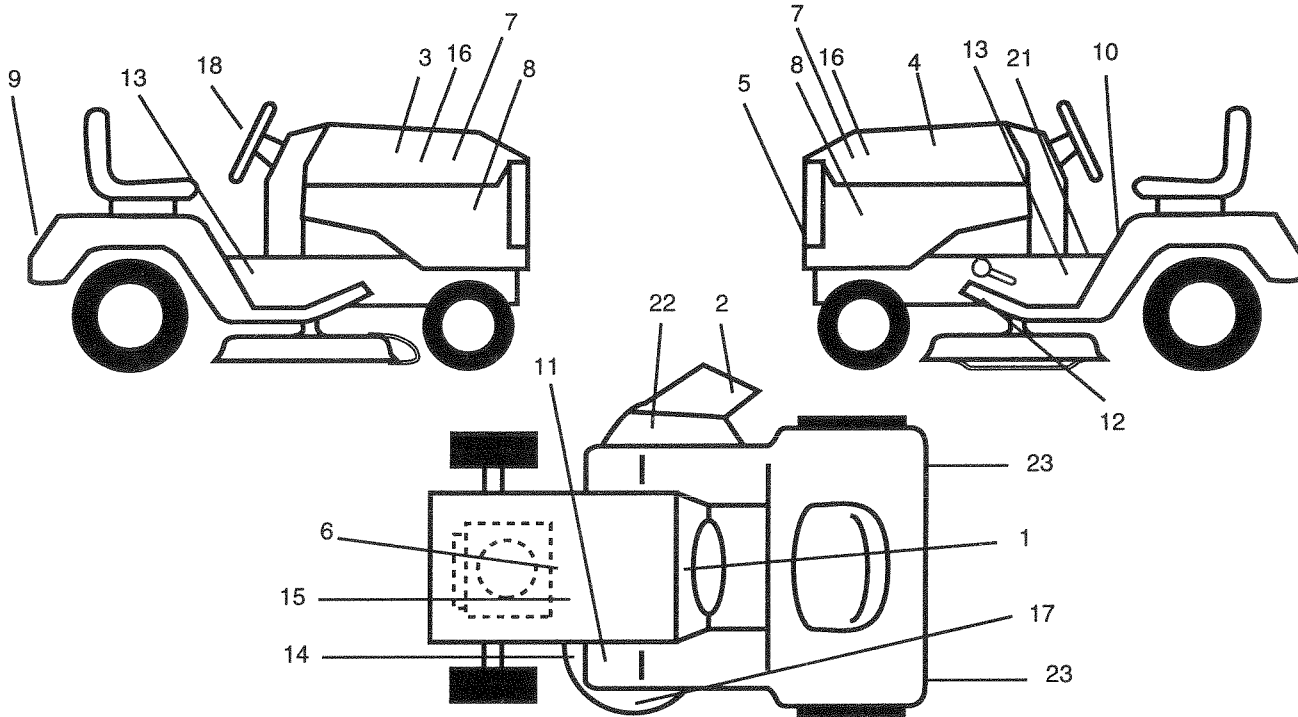
KEY NO.	PART NO.	DESCRIPTION
16	121250X	Spring
17	123976X	Nut, Flangelock 1/4 Grade 5
18	124238X	Cap, Spring, Seat
21	139888	Bolt, Shoulder 5/16-18 UNC
22	STD541431	Nut
24	19171912	Washer 17/32 x 1-3/16 x 12 Gauge
25	127018X	Bolt, Shoulder 5/16-18 x .62
27	17490608	Screw Thdrol. 3/8-16 x 1/2
28	STD541437	Nut

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

REPAIR PARTS

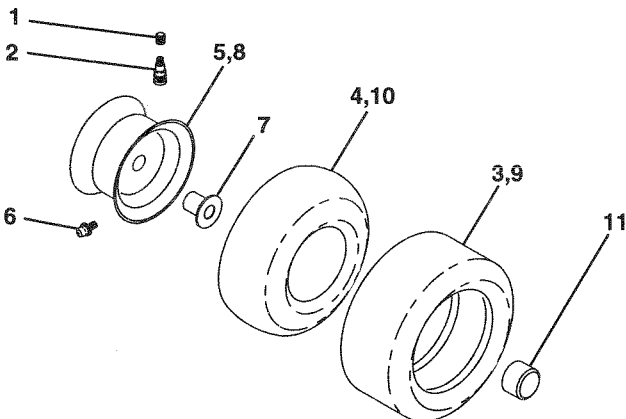
TRACTOR - - MODEL NUMBER 944.605281

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	138956	Decal, Operating Instruction	12	146046	Decal, V-Belt Drive Schematic
2	147142	Decal, Mower, 3 In One	13	147139	Decal, Chassis, 6 Speed/42"
3	146705	Decal, Hood, Craftsman, RH	14	136832	Decal, V-Belt Schematic
4	146706	Decal, Hood, Craftsman, LH	15	145004	Decal, Battery danger/poison svcs. (Eng/Fr)
5	148175	Decal, Grille	16	147137	Decal Ins. Hood
6	138047	Decal, Battery Diehard	17	133179	Decal, Mower QC System
7	138048	Decal, Side Panel Diehard	18	146710	Decal, Insert Strg
8	142243	Decal, Side Panel	21	140837	Decal Brake Parking Saddle
9	146709	Decal, Fender, Craftsman	22	137259	Decal, Warning Multi-Language
10	133795	Decal, Caution	23	106202X	Reflector, Taillight
11	101892X	Decal, Clutch/Brake	--	138311	Decal, Handle Lift Height Adj.
			--	145245	Pad Footrest
			--	145247	Fastener Pop-In Footrest (8 per)
			--	149166	Manual, Owner's (Eng)
			--	149167	Manual, Owners (Fr)

WHEELS & TIRES



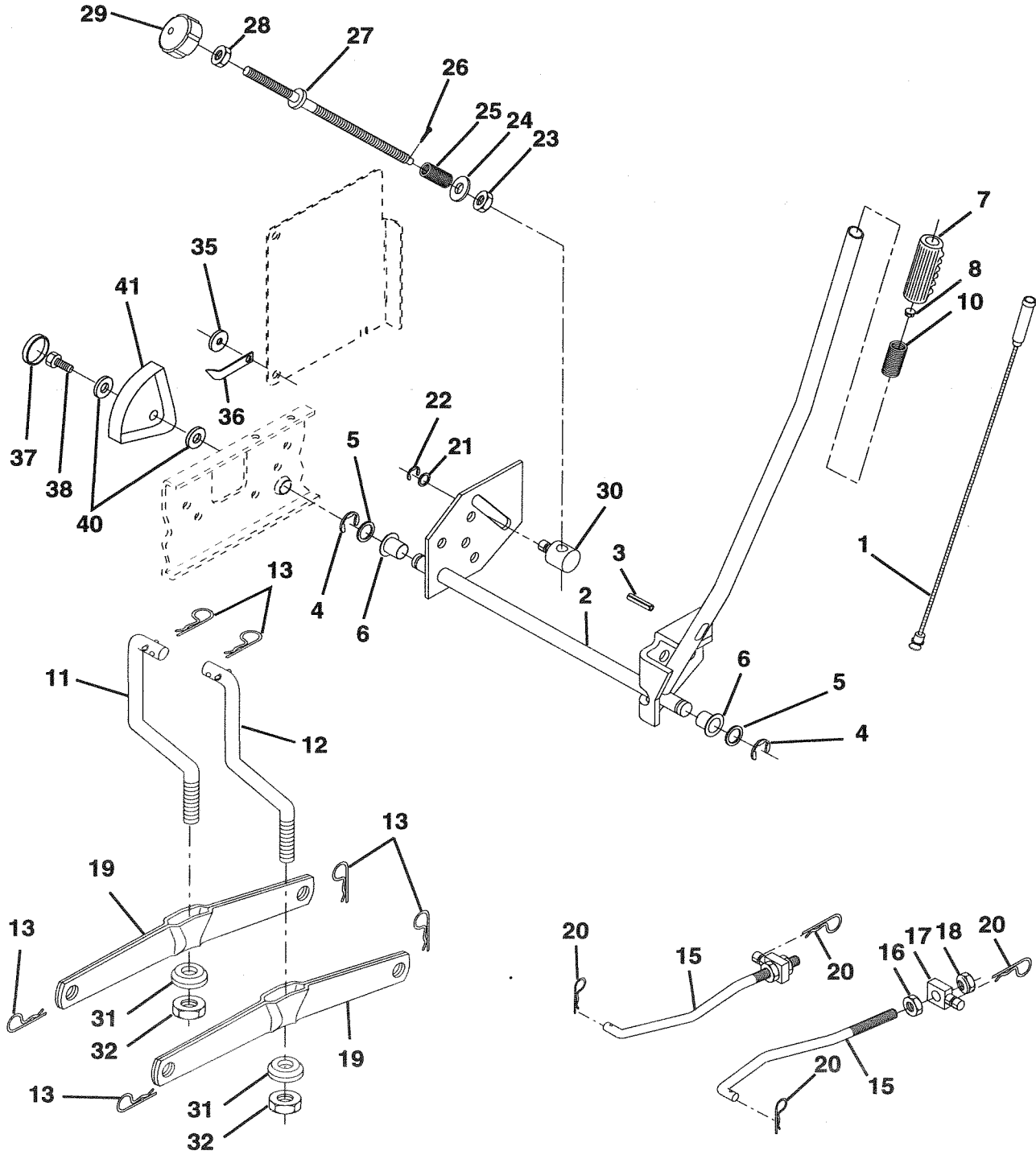
KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front (Service Item Only)
5	106732X427	Rim Assembly, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X427	Rim Assembly, Rear
9	122082X	Tire, Rear
10	7152J	Tube, Rear (Service Item Only)
11	104757X	Cap, Axle
--	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 944.605281

MOWER LIFT



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

LOWER LIFT

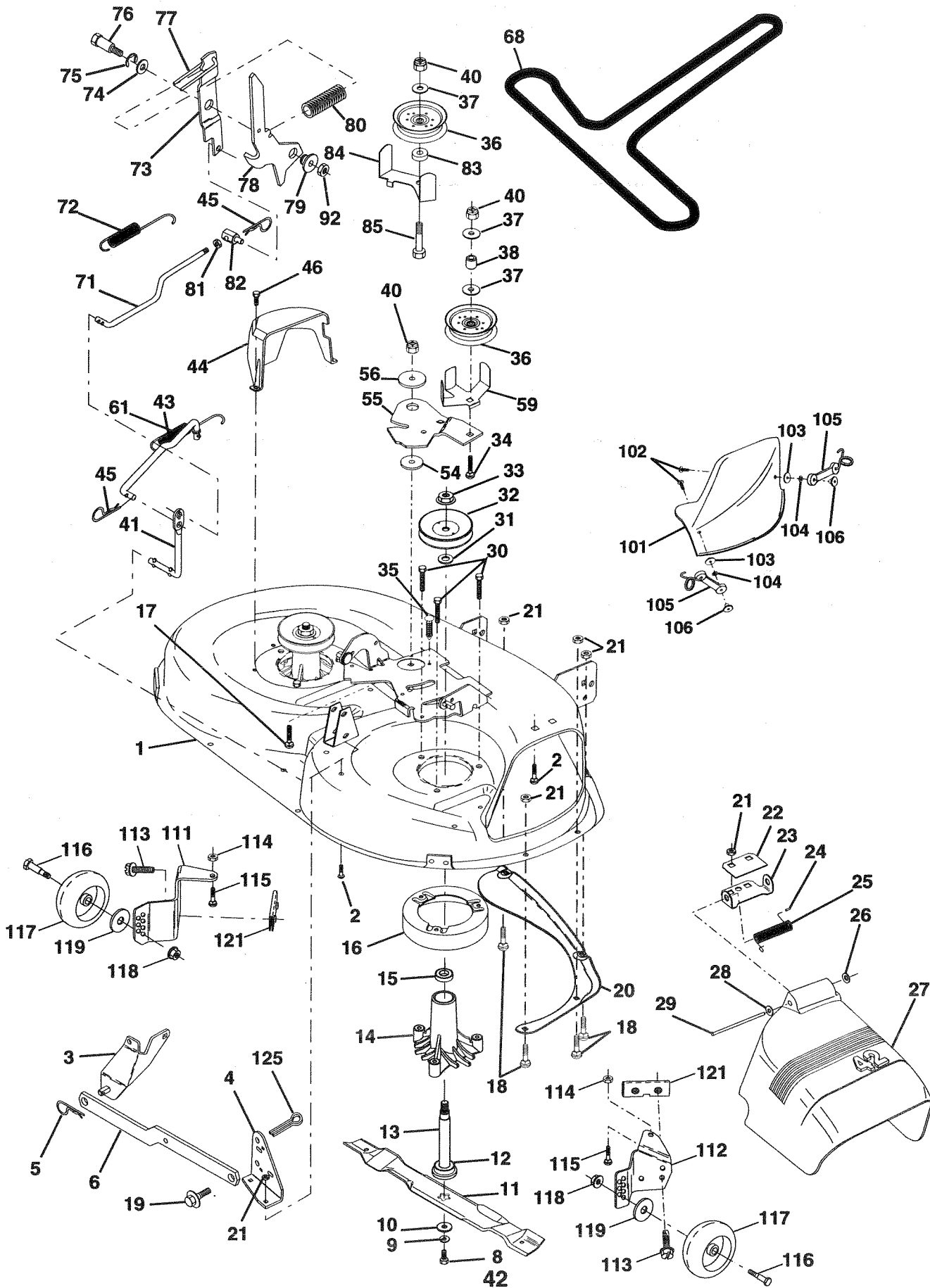
KEY NO.	PART NO.	DESCRIPTION
1	136971	Wire Asm Inner W/Plunger
2	136968	Shaft Asm Lift
3	138284	Pin Groove
4	12000002	E Ring #5133-62
5	19211621	Washer 29/32 x 1-1/4 x 21 Ga.
6	120183X	Bearing Nylon Blk .629 ID
7	125631X	Grip Handle Fluted
8	122365X	Button, Plunger
10	122512X	Cprsn 3.750 Oiled
11	139865	Link Lift Lh Fixed Length
12	139866	Link Lift Rh Fixed Length
13	STD624008	Retainer Spring
15	127218	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	73800800	Nut Lock W/Wsh 1/2-13 Unc
19	139868	Arm Suspension Rear
20	3146R	Spring Retainer
21	19151216	Washer 15/32 X 3/4 X 16 Ga
22	12000037	Ring Klip #T5304-37
23	110807X	Nut Special
24	19131016	Washer 13/32 X 5/8 X 16 Ga
25	137167	Spring
26	76020308	Pin Cotter 3/32 x 1/2
27	137167	Rod Adjust Lift
28	73350600	Nut Hex Jam 3/8-16 Unc
29	138057	Knob Infinite 3/8-16 Unc Black
30	110810X	Trunnion Dp Stop Dbl Thds Plt
31	140302	Bearing Pvt. Lift Spherical
32	73540600	Nut Lock 3/8-24
35	120529X	Nut Crownlock 3/8-24
36	123933X505	Pointer, Height Indicator
37	123935X	Plug, Hole
38	17490512	Screw Hex Wsh Thdrol 5/16-18 x 3/4
40	19112410	Washer 11/32 x 1-1/2 x 10 Gauge
41	123934X	Scale, Height Indicator

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 944.605281

MOWER DECK



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

MOWER LIFT

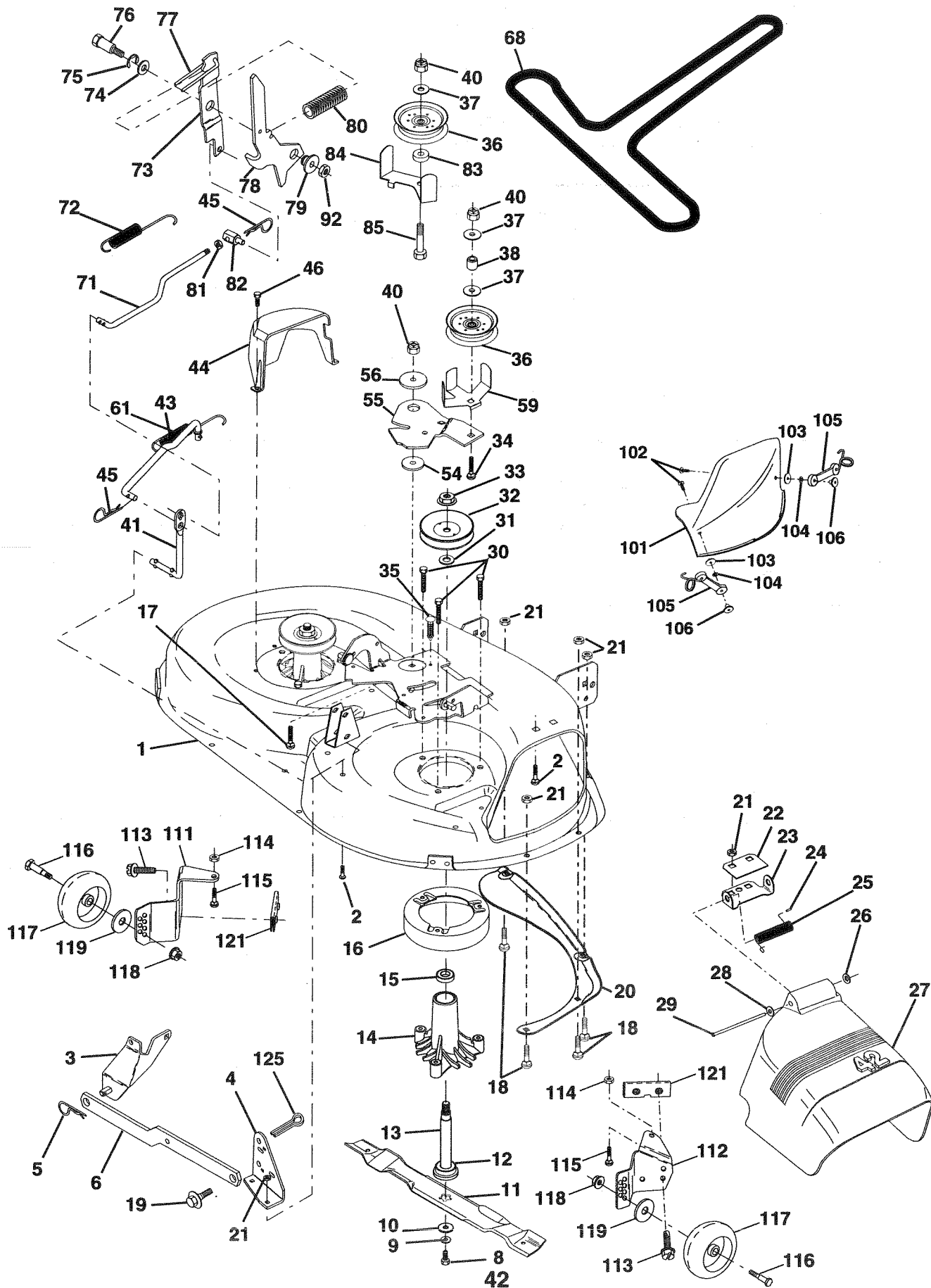
KEY NO.	PART NO.	DESCRIPTION
1	136971	Wire Asm Inner W/Plunger
2	136968	Shaft Asm Lift
3	138284	Pin Groove
4	12000002	E Ring #5133-62
5	19211621	Washer 29/32 x 1-1/4 x 21 Ga.
6	120183X	Bearing Nylon Blk .629 ID
7	125631X	Grip Handle Fluted
8	122365X	Button, Plunger
10	122512X	Cprsn 3.750 Oiled
11	139865	Link Lift Lh Fixed Length
12	139866	Link Lift Rh Fixed Length
13	STD624008	Retainer Spring
15	127218	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	73800800	Nut Lock W/Wsh 1/2-13 Unc
19	139868	Arm Suspension Rear
20	3146R	Spring Retainer
21	19151216	Washer 15/32 X 3/4 X 16 Ga
22	12000037	Ring Klip #T5304-37
23	110807X	Nut Special
24	19131016	Washer 13/32 X 5/8 X 16 Ga
25	137167	Spring
26	76020308	Pin Cotter 3/32 x 1/2
27	137167	Rod Adjust Lift
28	73350600	Nut Hex Jam 3/8-16 Unc
29	138057	Knob Infinite 3/8-16 Unc Black
30	110810X	Trunnion Dp Stop Dbl Thds Plt
31	140302	Bearing Pvt. Lift Spherical
32	73540600	Nut Lock 3/8-24
35	120529X	Nut Crownlock 3/8-24
36	123933X505	Pointer, Height Indicator
37	123935X	Plug, Hole
38	17490512	Screw Hex Wsh Thdrol 5/16-18 x 3/4
40	19112410	Washer 11/32 x 1-1/2 x 10 Gauge
41	123934X	Scale, Height Indicator

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 944.605281

MOWER DECK



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

LOWER DECK

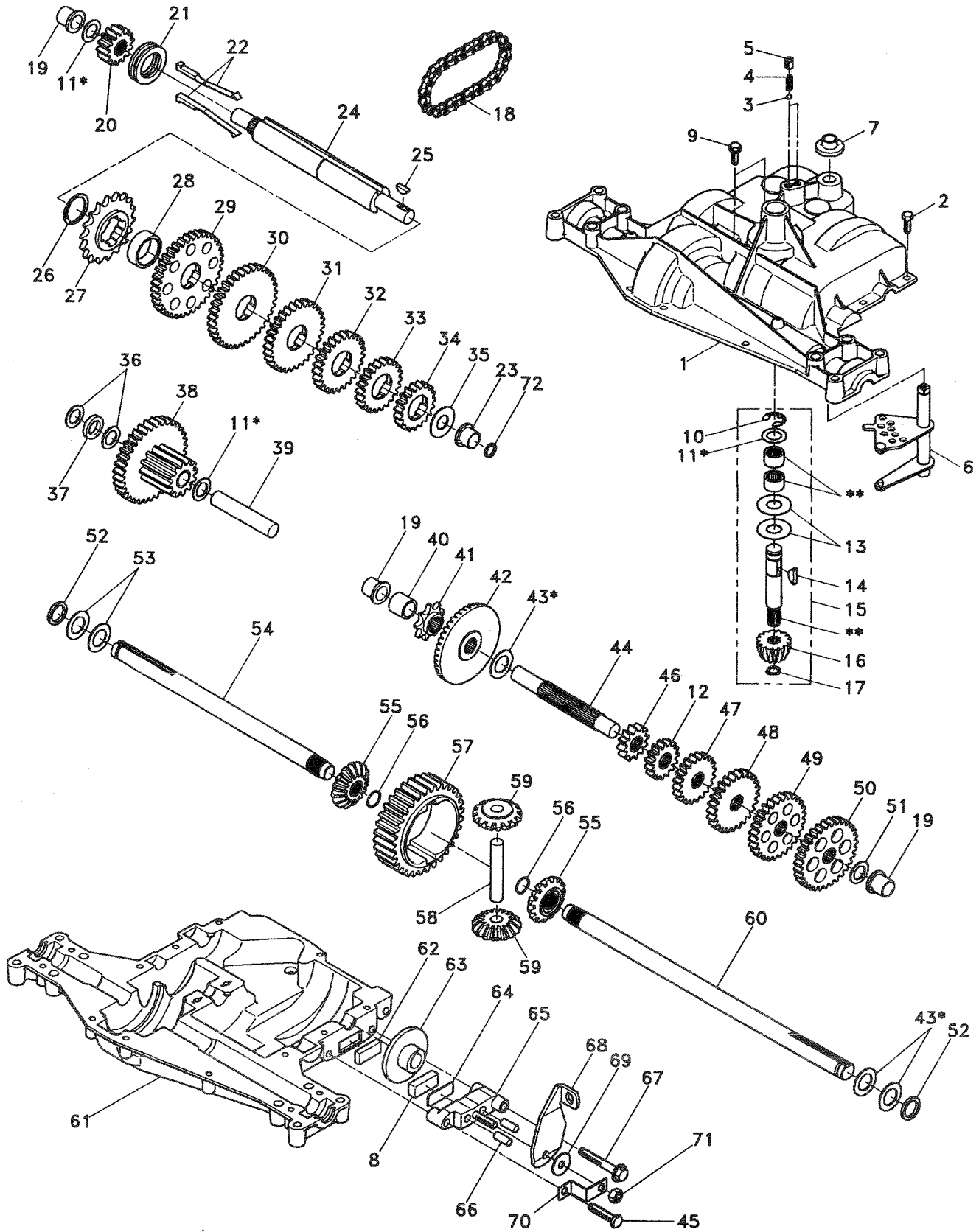
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	144393	Mower Deck Assembly, 42"	38	132823	Spacer Spring Stop Idler
2	STD533107	Bolt	40	73680600	Nut, Hex, Crownlock 3/8-16 UNC
3	138017	Bracket Asm Fr. Sway Bar	44	140088	Guard, Mandrel, LH
4	138440	Bracket Asm Deck 42" Sway Bar	46	137729	Screw Thd. Roll 1/4-20 x 5/8
5	STD624008	Retainer Spring	54	133943	Washer, Hardened
3	130832	Arm, Suspension, Rear	55	140084	Arm, Idler
3	850857	Bolt 3/8-24 x 1.25 Grade 8	56	122052X	Spacer, Retainer
9	STD551137	Washer, Lock	58	140086	Spring Torsion Brakes 42"
0	140296	Washer, Hardened	59	141043	Guard Tuv Idler
1	134149	Blade, Mulching, 42" Mower Deck	61	131950	Spring Ext. Elect. CL
2	129895	Bearing, Ball	68	144200	V-Belt, 42" Mower
3	137645	Shaft Assembly, Mandrel, Vented (Includes Key Number 12)	83	120958X	Washer, Sintered
4	128774	Housing, Mandrel, Vented	84	144394	Keeper, Belt, Idler, Fixed
5	110485X	Bearing, Ball, Mandrel	85	72140618	Bolt rdhd sq 3/8-16 Unc X 2 1/4
6	140329	Stripper, Vented Mower Deck	101	136420	Mulcher Cover
7	72110618	Bolt, Carriage 3/8-16 x 2-1/4	102	71161010	Screw
3	72140505	Bolt, Carriage 5/16-18 x 5/8	103	19061216	Washer #10
9	132827	Bolt, Shoulder	104	STD551110	Washer, Lock
0	136888	Baffle, Vortex	105	130758	Latch Assembly, Bagger
1	STD541431	Nut	106	2029J	Nut, Weld
2	134753	Stiffener Bracket	111	140353	Bracket, Gauge, Wheel LH
3	131267	Bracket, Deflector	112	132262	Bracket, Gauge, Wheel RH
4	105304X	Cap, Sleeve	113	17490512	Screw Thdrol 5/16-18 X 3/4
5	149287	Spring, Torsion, Deflector	114	73510500	Nut, Keps 5/16 - 18 UNC
6	110452X	Nut, Push	115	72110504	Bolt, Carriage 5/16 UNC x 1/2
7	130968	Shield, Deflector	116	137644	Bolt, Shoulder
8	19111016	Washer 11/32 x 5/8 x 16 Gauge	117	133957	Wheel, Gauge, Donut
9	131491	Rod, Hinge	118	73930600	Nut, Locking 3/8 - 16
0	138776	Screw Thdrol. Hex Head Zinc Mower	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
1	129963	Washer, Spacer	121	143723	Bracket Extruded Gauge Wheel
2	129861	Pulley, Mandrel	125	7602816	Pin Cotter 1/4 X 1 Plated
3	137266	Nut, Toplock Flanged	--	130794	Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 33))
4	STD533727	Bolt	--	145452	Mower Deck, Complete (Std Deck - order mulching and gauge wheel components separately - key nos. 101 thru 106 and 111 thru 121)
5	133835	Fastner, Christmas Tree			
6	131494	Pulley, Idler, Flat			
7	STD551037	Washer 13/32 x 13/16 x 16 Gauge			

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

DANA TRANSAXLE - MODEL NUMBER 4360-81



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

DANA TRANSAXLE - MODEL NUMBER 4360-81

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 142671	Housing, Upper	41 105928X	Sprocket, 9 Teeth
2 2274J	Screw, Self-Tapping, Large 1/4-20 x .734	42 106605X	Gear, Bevel, 42 Teeth
3 134400	Ball, Detent	43 134394	* Assembly, Kit, Shim .750 Shaft
4 105904X	Spring, Detent	44 120473X	Shaft, Drive
5 105905X	Screw, Set	45 106596X	Screw, Self-Tapping, Large 5/16-18 x 1.44
6 134788	Kit, Shifter Assembly	46 142678	Gear, Spur, 12 Teeth
7 134399	Boot, Shifter	47 120407X	Gear, Spur, 20 Teeth
8 120951X	Puck, Friction	48 106589X	Gear, Spur, 25 Teeth
9 134791	Screw, Tapping w/Sealer	49 120408X	Gear, Spur, 28 Teeth
10 142672	Ring, Retaining	50 105937X	Gear, Spur, 31 Teeth
11 134793	* Assembly, Kit, Shim .625 Shaft	51 2226J	Washer, Plain .632 x 1.00 x .060
12 142679	Gear, Spur, 15 Teeth	52 134401	Washer, Neoprene
13 120415X	Washer, Plain .632 x 1.38 x .046	53 2264J	Washer, Plain .758 x 1.25 x .031
14 142674	Key, Woodruff, #9	54 120474X	Axle, L.H.
15 106846X	Assembly, Kit, Input Shaft	55 120409X	Gear, Miter, 15 Teeth
16 106095X	Pinion, Bevel, 14 Teeth	56 105941X	Ring, Retaining
17 105909X	Ring, Retaining	57 110071X	Gear, Spur, 32 Teeth
18 105910X	Chain, 24 Pitches	58 120952X	Shaft, Cross
19 105911X	Bearing, Flange	59 106592X	Gear, Miter, 15 Teeth
20 142675	Gear, Spur, 14 Teeth	60 120475X	Axle, R.H.
21 138246	Collar, Clutch	61 142680	Housing, Lower
22 138237	Assembly, Kit, Clutch Keys	62 120961X	Puck, Friction
23 143051	Bearing, Flange	63 7294J	Disc, Brake
24 142676	Shaft, Intermediate	64 108989X	Spacer
25 2244J	Key, Woodruff, #61	65 120953X	Jaw, Brake
26 105916X	Ring, Retaining	66 120954X	Pin, Dowel
27 120470X	Sprocket, 18 Teeth	67 134799	Screw, Self-Tapping, Large 5/16-18 x 2.25
28 110070X	Spacer	68 138244	Lever, Actuating
29 142677	Gear, Spur, 37 Teeth	69 108996X	Washer, Plain .321 x 1.00 x .055
30 142681	Gear, Spur, 35 Teeth	70 120956X	Bracket, Anti-Rotation
31 120405X	Gear, Spur, 30 Teeth	71 73810500	Locknut 5/16-24
32 108980X	Gear, Spur, 25 Teeth	72 143045	Seal, Oil
33 120406X	Gear, Spur, 22 Teeth	73 120416X	Grease
34 134796	Gear, Spur, 19 Teeth		
35 105925X	Washer, Plain .640 x 1.37 x .061		
36 2232J	Washer, Plain .632 x 1.00 x .026		
37 108978X	Spacer .630 x 1.00 x .169		
38 110079X	Assembly, Gear, Combination of 12 Teeth and 35 Teeth		
39 124639X	Shaft, Idler		
40 120472X	Spacer .635 x .875 x .755		

* Use in combinations to maintain proper clearances

** Order Key No. 15

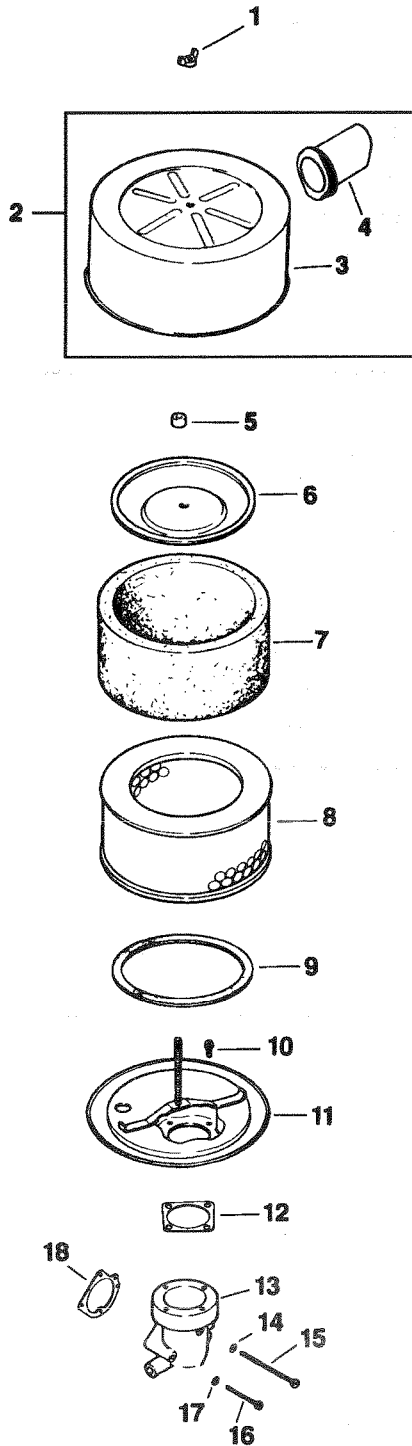
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

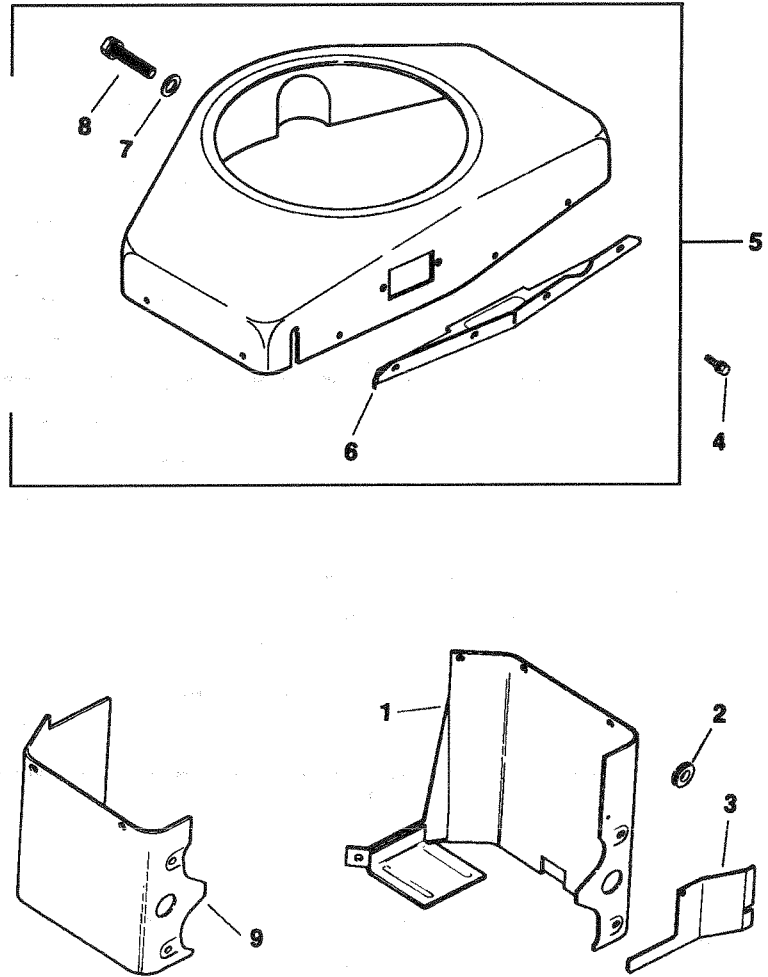
TRACTOR - - MODEL NUMBER 944.605281

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860

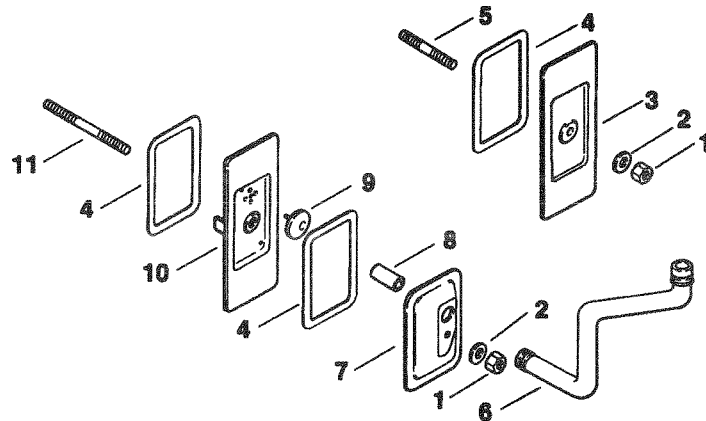
AIR INTAKE



BAFFLES AND SHROUD



BREATHER AND VENT



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

OHLEER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860

R INTAKE

KEY PART NO.	DESCRIPTION
1 X-276-7	Wing Nut 1/4-20
2 52 755 83	Kit, Cover and Tube (Includes Key Numbers 3 and 4)
3 52 096 35	Cover, Air Cleaner
4 52 123 21	Tube, Air Intake
5 231032	Seal, Element Cover
6 52 082 04	Cover, Air Cleaner Element
7 45 083 01	Pre-Cleaner
8 45 083 02	Element
9 237423	Seal, Air Cleaner Cover
0 X-67-98	Screw, Hex Washer Head #10-32 x 9/16 (4)
1 52 201 06	Base, Air Cleaner
2 277093	Gasket, Air Cleaner (2)
3 52 054 39	Elbow, Air Intake
4 X-25-79	Washer, Plain #10
5 X-50-37	Screw, Slotted Pan Head #10-32 x 2-1/4
6 X-50-57	Screw, Slotted Pan Head #10-32 x 1-3/4 (2)
7 X-22-9	Washer, Lock, Internal Tooth #10 (2)
8 25 041 06	Gasket, Air Cleaner Elbow

NOT ILLUSTRATED

- 25 113 15	Decal, Air Cleaner
- 52 113 30	Decal

BAFFLES & SHROUD

KEY PART NO.	DESCRIPTION
1 52 063 41	Baffle, #2 Cylinder Head
2 52 313 05	Grommet (2)
3 52 063 42	Baffle, Fuel Pump
4 X-67-83	Screw, Hex Washer Head 1/4-20 x 7/16 (14)
5 52 755 70	Kit, Blower Housing (Includes Key Numbers 6 thru 8)
6 52 217 01	Support, Upper Housing
7 52 468 16	Washer, Flat (2)
8 52 086 11	Screw 1/4-20 x 5/8 (6)
9 52 124 23	Baffle, #1 Cylinder Head

NOT ILLUSTRATED

- 52 113 46	Decal, Horsepower (3)
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BREATHER & VENT

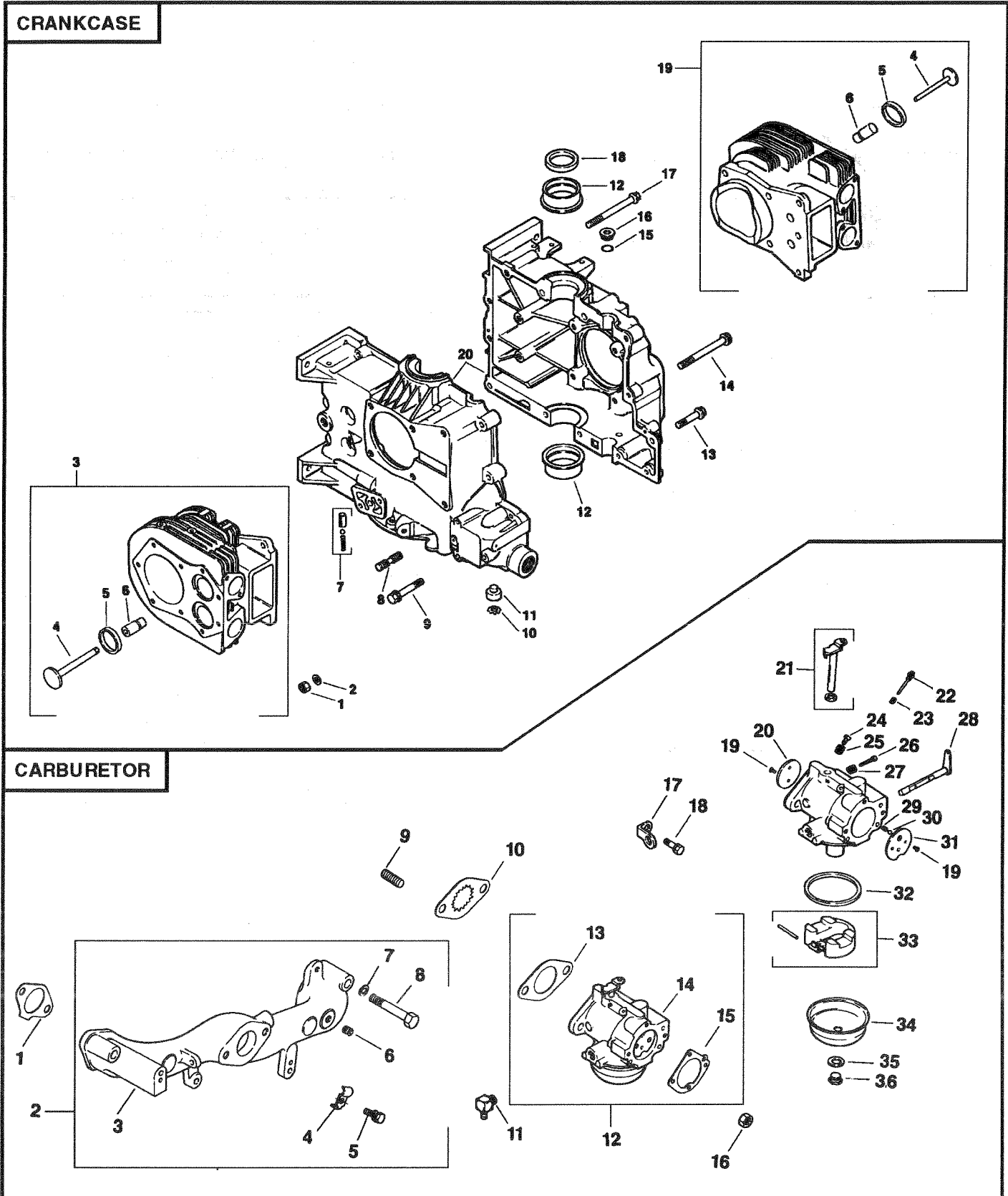
KEY PART NO.	DESCRIPTION
1 X-81-1	Nut, Hex 1/4-20 (2)
2 X-25-12	Washer, Plain 1/4 (2)
3 52 096 18	Cover, #2 Cylinder Valve
4 52 055 01	Gasket, Cover (3)
5 X-352-39	Stud, #2 Cylinder Valve Cover 1/4-20 x 2-1/4
6 52 326 12	Hose, Breather
7 52 096 08	Cover, #1 Upper Cylinder Valve
8 52 032 04	Seal, Breather
9 52 462 01	Valve, Umbrella
10 52 096 22	Cover, #1 Lower Cylinder Valve
11 275220	Stud, #1 Cylinder Valve Cover 1/4-20 x 3-1/4

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

COHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860

CRANKCASE

KEY NO.	PART NO.	DESCRIPTION
1	X-82-2	Nut, Hex 5/16-18 (12)
2	52 468 12	Washer, Flat 5/16 (12)
3	82 755 16	Kit, #1 Cylinder Barrel (Includes Key Numbers 4 thru 6)
4	52 016 05	Valve, Exhaust
5	52 031 01	Insert, Valve Seat (2)
6	52 316 06	Guide, Valve (2)
7	52 755 50	Kit, Oil Relief
8	52 072 12	Step Stud 5/16-18 x 3/4, 3/8-16 x 5/8, 2" Long (12)
9	25 086 12	Screw, Hex Flange 5/16-18 x 2 (2)
10	X-269-43	Ring, Retaining
11	52 078 05	Shaft, Governor
12	52 030 10	Bearing, Sleeve, Standard (2)
	52 030 11	Bearing, Sleeve .010" (2)
	52 030 12	Bearing, Sleeve .020" (2)
13	25 086 10	Screw, Hex Flange 5/16-18 x 1-1/2 (3)
14	25 086 13	Screw, Hex Flange 3/8-16 x 3-5/8 (2)
15	52 141 02	O-Ring
16	52 139 08	Plug
17	25 086 11	Screw, Hex Flange 5/16-18 x 3-1/2 (8)
18	52 032 10	Seal, Oil, Front
19	82 755 17	Kit, #2 Cylinder Barrel (Includes Key Numbers 4 thru 6)
20	---	Crankcase (Service with Short Block, Part Number 82 522 30)

CARBURETOR

KEY NO.	PART NO.	DESCRIPTION
1	52 041 09	Gasket, Intake (2)
2	52 755 91	Kit, Manifold (Includes Key Numbers 3 thru 8)
3	52 164 15	Manifold, Intake
4	X-21-1	Washer, Lock 5/16 (4)
5	X-6-29	Screw, Hex Cap 5/16-18 x 2 (4)
6	X-75-23	Plug, Hex, Countersunk 1/8 N.P.T.F.
7	235778	Clamp, Cable (2)
8	X-67-97	Screw, Hex Washer Head #10-24 x 3/8 (2)
9	41 072 19	Stud 5/16-18 x 1 (2)
10	52 063 40	Baffle, Carburetor
11	25 155 02	Connector, Hose
12	52 853 25	Kit, Carburetor with Gasket (Includes Key Numbers 12 thru 14)
13	271030	Gasket, Carburetor (2)
14	52 053 54	Carburetor Assembly (Information Only - Not Available Separately) (Includes Key Numbers 18 thru 35)
15	25 041 06	Gasket, Air Cleaner
16	X-77-2	Nut 5/16 (2)
17	232867	Strap, Lifting
18	X-67-62	Screw, Hex Washer Head 1/4-20 x 3/4
19	25 086 27	Screw, Throttle and Choke Plate (4)
20	25 146 03	Plate, Choke
21	52 144 24	Shaft, Throttle with Lever and Seal
22	25 368 01	Needle, Idle Fuel Adjust
23	25 089 02	Spring, Idle, Fuel
24	25 086 26	Screw, Idle Speed Adjust
25	25 089 04	Spring, Idle Speed
26	25 368 03	Needle, Main Fuel
27	25 089 02	Spring, Main Fuel
28	52 090 13	Lever, Choke
29	25 089 03	Spring, Choke, Friction
30	25 194 01	Ball, Choke, Friction
31	25 146 02	Plate, Throttle
32	25 041 04	Gasket, Bowl
33	25 757 09	Kit, Float
34	25 104 01	Bowl, Fuel
35	25 041 03	Gasket, Bowl Retainer Screw
36	25 100 05	Screw, Bowl Retainer

NOT ILLUSTRATED

--	25 757 11	Kit, Carburetor Repair
--	25 757 23	Kit, Bowl Baffle

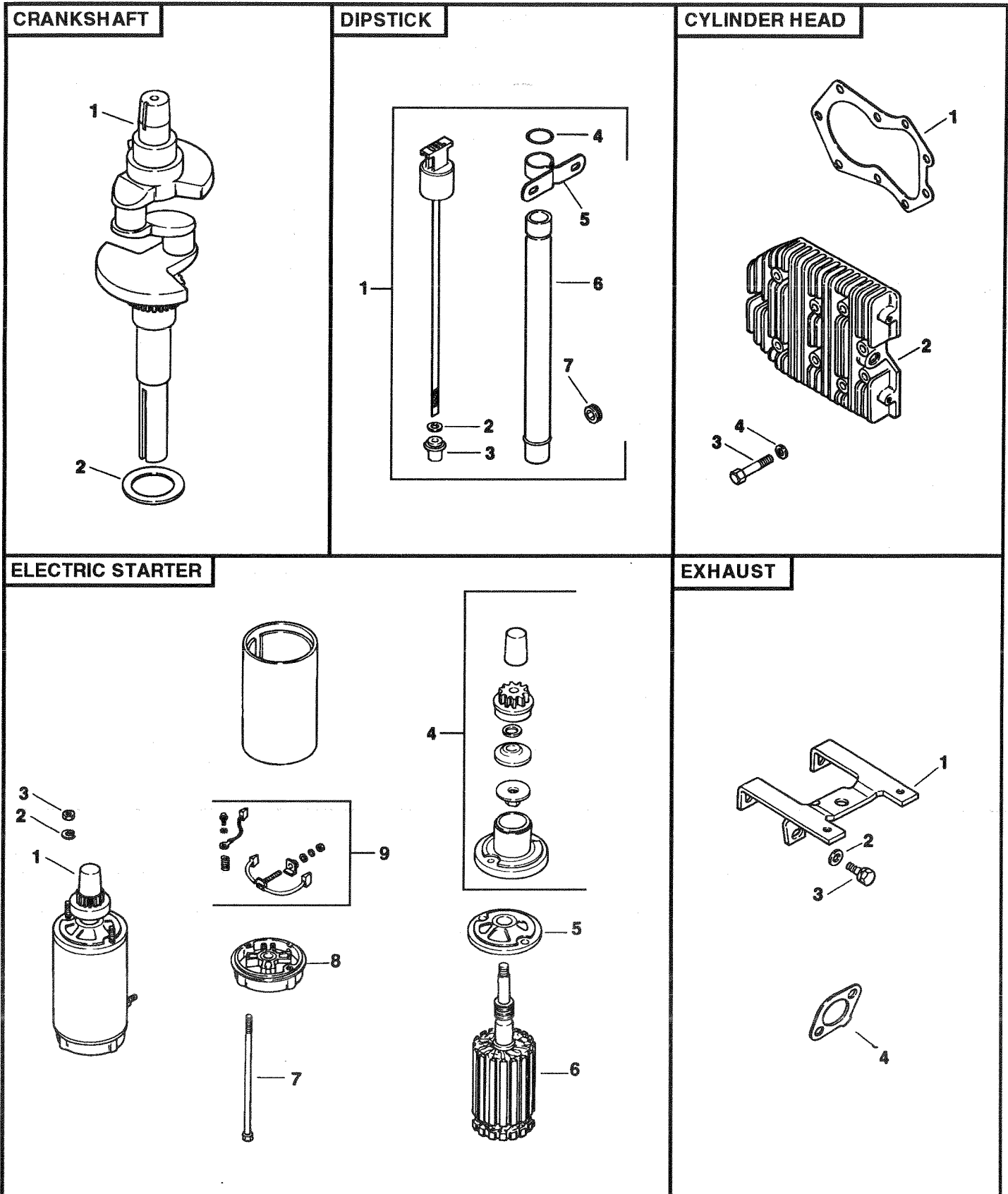
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

RPM Settings: Low Speed 1500 - 2000
 High Speed 3200 - 3400

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

OHLEH ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860

CRANKSHAFT

KEY PART NO.	PART NO.	DESCRIPTION
1	52 014 93	Crankshaft
2	52 468 03	Washer, Thrust .119/.122 (A.R.)
	52 468 04	Washer, Thrust .128/.131
	52 468 05	Washer, Thrust .137/.140 (A.R.)

DIPSTICK

KEY PART NO.	PART NO.	DESCRIPTION
1	52 038 14	Dipstick Assembly (Includes Key Numbers 2 and 3)
2	X-25-44	Washer, Plain 5/16
3	52 032 14	Seal, Rubber
4	41 153 01	O-Ring
5	52 126 11	Bracket, Oil Tube Support
6	52 123 20	Tube, Oil Fill 11-7/8
7	47 139 01	Plug, Hex, Countersunk 3/4 N.P.T.F.

CYLINDER HEAD

KEY PART NO.	PART NO.	DESCRIPTION
1	52 041 20	Gasket, Head (2)
2	52 015 08	Cylinder Head (2)
3	220534	Washer, Plain 5/16 (18)
4	41 086 02	Screw, Hex Head 5/16-18 x 1-1/2 (18)

ELECTRIC STARTER

KEY PART NO.	PART NO.	DESCRIPTION
1	52 098 12	Starter Assembly (Includes Key Numbers 4 thru 9)
2	X-20-1	Washer, Lock 1/4 (2)
3	X-81-1	Nut, Hex 1/4-20 (2)
4	82 755 26	Kit, Drive
5	52 081 07	Cap, Drive End
6	52 170 05	Armature
7	52 211 01	Bolt, Thru (2)
8	52 227 10	Cap, Commutator End
9	82 755 28	Kit, Brush

NOT ILLUSTRATED
-- 25 450 03 Tag, Caution

EXHAUST

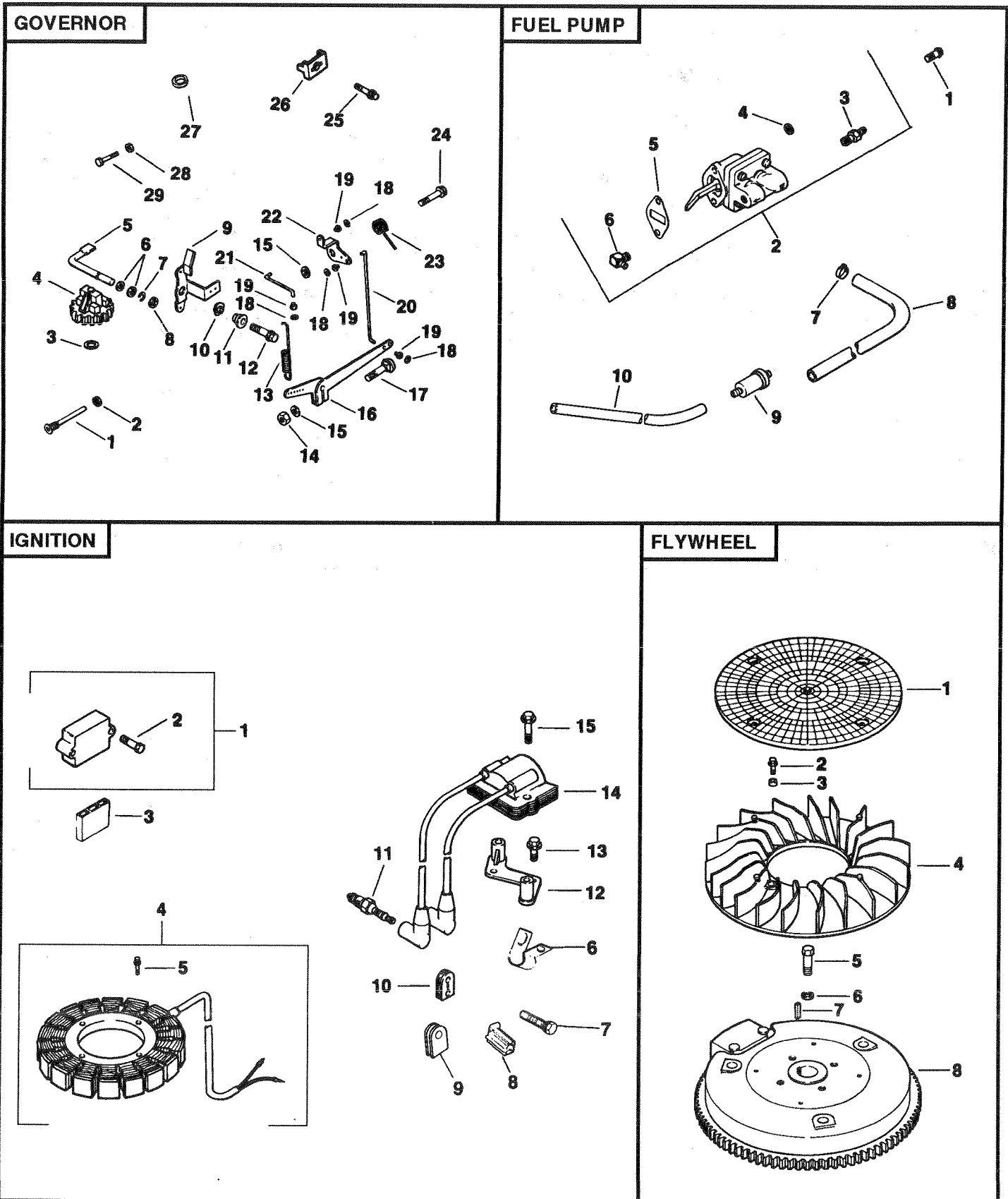
KEY PART NO.	PART NO.	DESCRIPTION
1	52 126 12	Bracket
2	X-25-72	Washer, Plain (3)
3	52 086 11	Screw 1/4-20 x 5/8 (3)
4	52 041 14	Gasket, Exhaust (2)

NOTE: All component dimensions given in U.S. inches
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REPAIR PARTS

TRACTOR -- MODEL NUMBER 944.605281

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

COHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860

FLYWHEEL

KEY PART NO.	DESCRIPTION
1 25 162 01	Screen, Grass
2 25 086 21	Screw, Hex Washer Head 1/4-20 x 5/8 (4)
3 25 112 04	Spacer (4)
4 25 157 01	Fan
5 25 086 24	Screw, Hex Machine 3/8-24 x 1-1/4
6 52 468 15	Washer, Plain
7 X-286-17	Key, Square 3/16 x 7/8
8 52 025 36	Flywheel

GOVERNOR

KEY PART NO.	DESCRIPTION
1 231355	Pin, Governor Stop
2 X-25-12	Washer, Plain 1/4
3 237022	Washer, Thrust
4 A-235743-S	Kit, Governor Gear
5 52 078 04	Shaft, Governor Cross
6 X-25-102	Washer, Plain 1/4 (2)
7 X-269-28	Retainer, Governor
8 X-25-72	Washer, Plain 1/4 (2)
9 52 090 23	Lever, Speed Control
10 277341	Washer, Tension
11 52 158 07	Bushing, Throttle Control Lever
12 25 086 15	Screw, Hex Washer Head 1/4-20 x 1
13 52 089 07	Spring, Governor
14 X-81-1	Nut, Hex 1/4-20
15 X-25-63	Washer, Plain 1/4
16 52 186 09	Arm, Governor
17 52 211 04	Screw, Round Head, Square Neck 1/4-20 x 1
18 25 141 03	Ring, Retaining (4)
19 25 158 08	Bushing, Linkage Retaining (4)
20 52 079 07	Linkage, Governor
21 52 079 06	Linkage, Throttle
22 52 090 14	Lever, Throttle
23 52 089 08	Spring, Torsion
24 25 086 21	Screw, Hex Washer Head 1/4-20 x 5/8
25 X-67-97	Screw, Hex Washer Head #10-24 x 3/8 (3)
26 235778	Clamp, Cable (3)
27 25 431 01	Bushing, Speed Control Lever
28 X-70-3	Nut, Hex #10-32
29 52 086 05	Screw, Hex Head #10-32 x 7/8

FUEL PUMP

KEY PART NO.	DESCRIPTION
1 47 086 08	Screw, Pozidriv, Truss Head 1/4-20 x 5/8 (2)
2 52 559 01	Pump, Fuel Assembly (Includes Key Numbers 3 thru 6)
3 X-380-1	Connector, Straight
4 X-25-63	Washer, Plain 1/4 (2)
5 25 041 09	Gasket, Fuel Pump
6 25 155 02	Connector, Hose
7 X-426-9	Clamp, Hose (4)
8 52 353 18	Line, Fuel, 8"
9 25 050 03	Filter, Fuel
10 15 353 04	Line, Fuel, 11-1/2"

IGNITION

KEY PART NO.	DESCRIPTION
1 25 755 03	Kit, Rectifier-Regulator (Includes Key Number 2)
2 X-132-5	Screw, Hex Cap 1/4-20 x 5/8 (2)
3 236602	Connector, 3 Contact
4 237878	Kit, Stator (Includes Key Number 5)
5 X-67-51	Screw, Hex Cap #10-24 x 3/4 (2)
6 210281	Clip (2)
7 X-67-64	Screw, Hex Washer Head #10-32 x 7/16
8 41 155 03	Connector, 2 Contact
9 220297	Grommet, Rubber
10 52 313 02	Grommet
11 52 132 02	Spark Plug (2)
12 52 126 08	Bracket, Module
13 25 086 15	Screw, Hex Washer Head 1/4-20 x 1 (2)
14 52 584 02	Module, Ignition
15 25 086 16	Screw, Hex Washer Head 1/4-20 x 7/8 (2)

NOT ILLUSTRATED

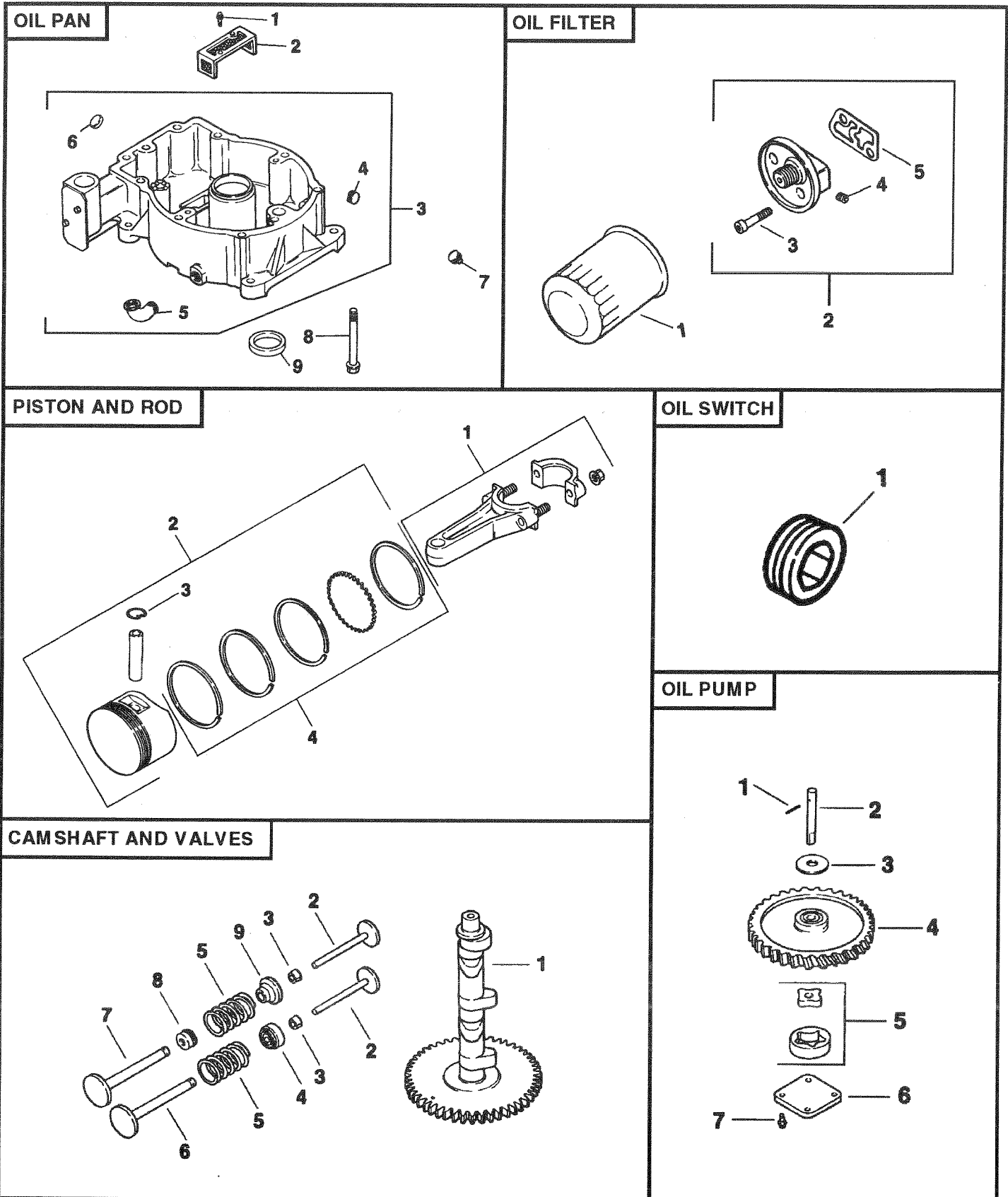
-- 47 518 33	Lead, Violet, Rectifier-Regulator (11", 14 Gauge, Uninsulated Push On Tab Terminals)
-- 52 518 19	Lead, White, Module To Connector (19-1/2", 14 Gauge, Insulated Push On Tab, Uninsulated Push On Tab Terminals)

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860

FLYWHEEL

KEY PART NO.	PART NO.	DESCRIPTION
1	25 162 01	Screen, Grass
2	25 086 21	Screw, Hex Washer Head 1/4-20 x 5/8 (4)
3	25 112 04	Spacer (4)
4	25 157 01	Fan
5	25 086 24	Screw, Hex Machine 3/8-24 x 1-1/4
6	52 468 15	Washer, Plain
7	X-286-17	Key, Square 3/16 x 7/8
8	52 025 36	Flywheel

GOVERNOR

KEY PART NO.	PART NO.	DESCRIPTION
1	231355	Pin, Governor Stop
2	X-25-12	Washer, Plain 1/4
3	237022	Washer, Thrust
4	A-235743-S	Kit, Governor Gear
5	52 078 04	Shaft, Governor Cross
6	X-25-102	Washer, Plain 1/4 (2)
7	X-269-28	Retainer, Governor
8	X-25-72	Washer, Plain 1/4 (2)
9	52 090 23	Lever, Speed Control
10	277341	Washer, Tension
11	52 158 07	Bushing, Throttle Control Lever
12	25 086 15	Screw, Hex Washer Head 1/4-20 x 1
13	52 089 07	Spring, Governor
14	X-81-1	Nut, Hex 1/4-20
15	X-25-63	Washer, Plain 1/4
16	52 186 09	Arm, Governor
17	52 211 04	Screw, Round Head, Square Neck 1/4-20 x 1
18	25 141 03	Ring, Retaining (4)
19	25 158 08	Bushing, Linkage Retaining (4)
20	52 079 07	Linkage, Governor
21	52 079 06	Linkage, Throttle
22	52 090 14	Lever, Throttle
23	52 089 08	Spring, Torsion
24	25 086 21	Screw, Hex Washer Head 1/4-20 x 5/8
25	X-67-97	Screw, Hex Washer Head #10-24 x 3/8 (3)
26	235778	Clamp, Cable (3)
27	25 431 01	Bushing, Speed Control Lever
28	X-70-3	Nut, Hex #10-32
29	52 086 05	Screw, Hex Head #10-32 x 7/8

FUEL PUMP

KEY PART NO.	PART NO.	DESCRIPTION
1	47 086 08	Screw, Pozidriv, Truss Head 1/4-20 x 5/8 (2)
2	52 559 01	Pump, Fuel Assembly (Includes Key Numbers 3 thru 6)
3	X-380-1	Connector, Straight
4	X-25-63	Washer, Plain 1/4 (2)
5	25 041 09	Gasket, Fuel Pump
6	25 155 02	Connector, Hose
7	X-426-9	Clamp, Hose (4)
8	52 353 18	Line, Fuel, 8"
9	25 050 03	Filter, Fuel
10	15 353 04	Line, Fuel, 11-1/2"

IGNITION

KEY PART NO.	PART NO.	DESCRIPTION
1	25 755 03	Kit, Rectifier-Regulator (Includes Key Number 2)
2	X-132-5	Screw, Hex Cap 1/4-20 x 5/8 (2)
3	236602	Connector, 3 Contact
4	237878	Kit, Stator (Includes Key Number 5)
5	X-67-51	Screw, Hex Cap #10-24 x 3/4 (2)
6	210281	Clip (2)
7	X-67-64	Screw, Hex Washer Head #10-32 x 7/16
8	41 155 03	Connector, 2 Contact
9	220297	Grommet, Rubber
10	52 313 02	Grommet
11	52 132 02	Spark Plug (2)
12	52 126 08	Bracket, Module
13	25 086 15	Screw, Hex Washer Head 1/4-20 x 1 (2)
14	52 584 02	Module, Ignition
15	25 086 16	Screw, Hex Washer Head 1/4-20 x 7/8 (2)

NOT ILLUSTRATED

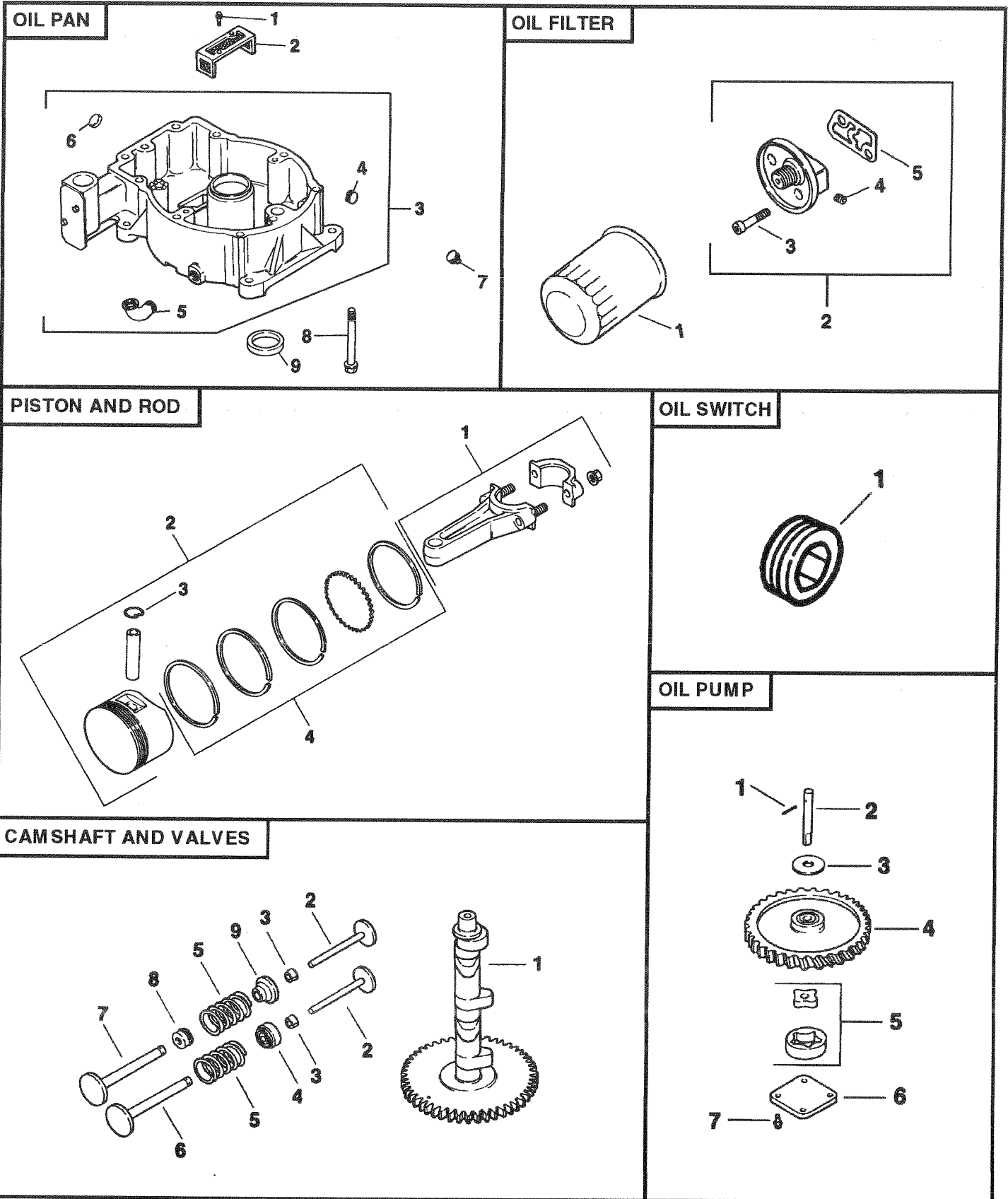
--	47 518 33	Lead, Violet, Rectifier-Regulator (11", 14 Gauge, Uninsulated Push On Tab Terminals)
--	52 518 19	Lead, White, Module To Connector (19-1/2", 14 Gauge, Insulated Push On Tab, Uninsulated Push On Tab Terminals)

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605281

OHLENER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS5860

IL PAN

KEY PART NO.	PART NO.	DESCRIPTION
1	X-67-64	Screw, Hex Washer Head #10-32 x 7/16 (2)
2	52 050 03	Filter, Oil Pickup
3	52 199 14	Oil Pan (Includes Key #4 thru 6)
4	X-702-14	Plug, Cup 1-1/16
5	52 054 07	Elbow, Street
6	X-75-38	Plug, Hex, Countersunk 1/4 N.P.T.F.
7	X-75-10	Plug, Square Head 3/8 N.P.T.F. (2)
8	52 086 12	Screw, Hex Washer Head 5/16-18 x 1-1/4 (9)
9	52 032 10	Seal, Oil, Rear

IL FILTER

KEY PART NO.	PART NO.	DESCRIPTION
1	52 050 02	Oil Filter
2	82 755 23	Kit, Oil Filter Adaptor (Includes Key Numbers 3 thru 5)
3	X-55-15	Screw, Hex Socket Head 5/16-18 x 1-1/4 (2)
4	X-75-23	Plug, Hex, Countersunk 1/8 N.P.T.F.
5	52 041 16	Gasket, Oil Filter

PISTON & ROD

KEY PART NO.	PART NO.	DESCRIPTION
1	52 067 67	Connecting Rod, Standard (2)
	52 067 68	Connecting Rod .010" (2)
2	52 874 11	Piston with Ring Set, Standard (2)
	52 874 12	Piston with Ring Set .003" (2)
	52 874 13	Piston with Ring Set .010" (2)
	52 874 14	Piston with Ring Set .020" (2)
	52 874 15	Piston with Ring Set .030" (2)
3	230004	Retainer, Piston Pin (4)
4	52 108 09	Ring Set, Standard and .003" (2)
	52 108 10	Ring Set .010" (2)
	52 108 11	Ring Set .020" (2)
	52 108 12	Ring Set .030" (2)

LOW OIL PRESSURE SWITCH

KEY PART NO.	PART NO.	DESCRIPTION
1	X-75-23	Plug, Pipe 1/8 N.P.T.F.

CAMSHAFT & VALVES

KEY PART NO.	PART NO.	DESCRIPTION
1	52 012 09	* Camshaft
2	52 019 03	* Tappet (4)
3	41 755 10	Kit, Retainer (4)
4	52 413 01	Rotator, Exhaust Valve (2)
5	25 089 01	Spring, Valve (4)
6	52 016 05	Valve, Exhaust (2)
7	52 017 08	Valve, Intake (2)
8	52 032 13	Seal, Intake Valve Stem (2)
9	230011	Retainer, Intake Valve (2)
*	After serial no. 24082000 use:	
1	52 012 11	Camshaft
2	52 019 02	Tappet

OIL PUMP

KEY PART NO.	PART NO.	DESCRIPTION
1	X-280-25	Pin, Roll
2	52 144 05	Shaft, Oil Pump
3	52 422 01	Spacer, Shim (As Required, Maximum of 2)
4	52 043 05	Gear, Oil Pump
5	52 393 09	Rotor Set
6	52 096 03	Cover, Oil Pump
7	X-67-64	Screw, Hex Washer Head #10-32 x 7/16 (4)

NOT ILLUSTRATED

--	82 522 30	Short Block
--	52 755 94	Gasket Set

RPM Settings: Low Speed: 1150-1650
High Speed: 3200-3400

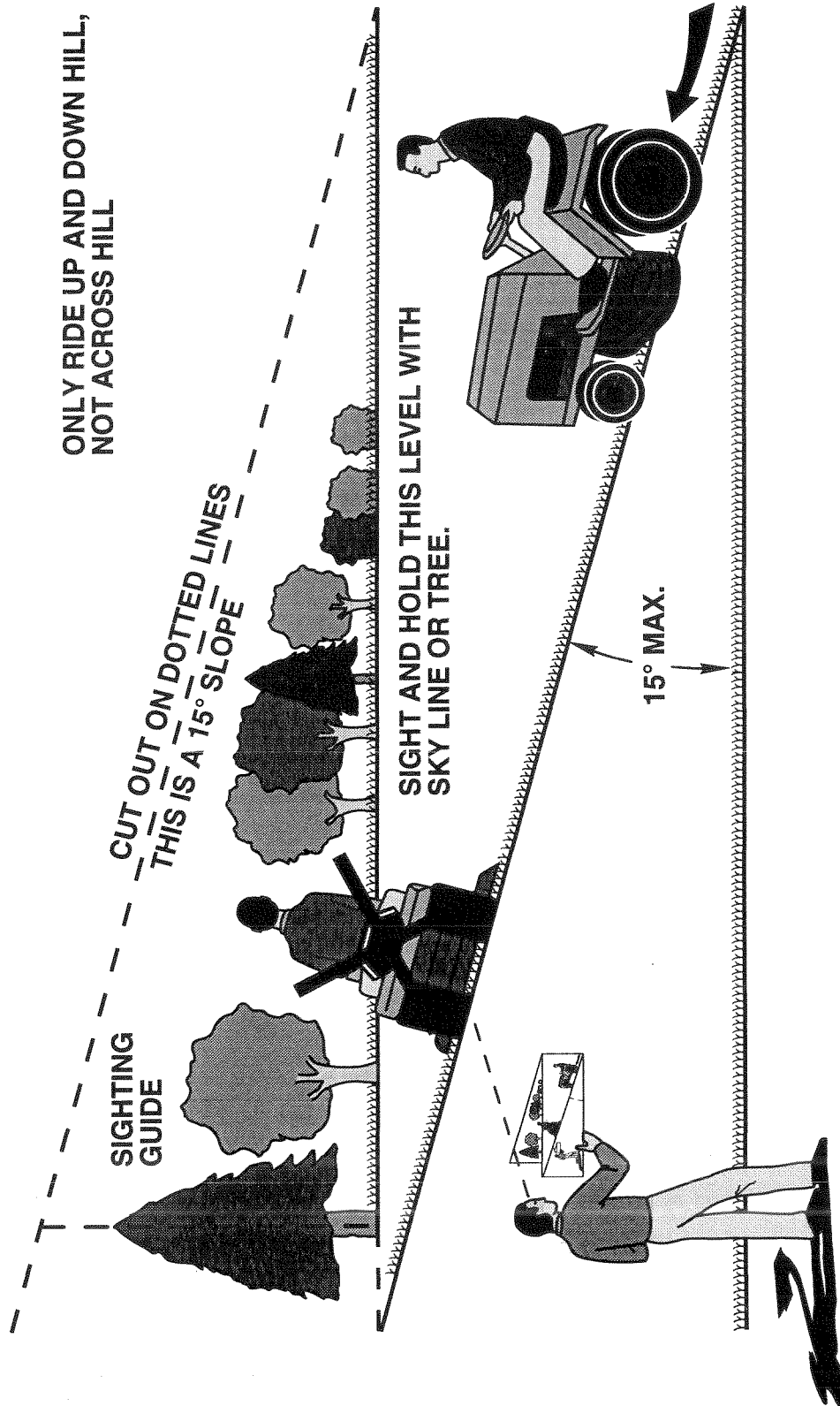
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

SERVICE NOTES

SERVICE NOTES

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



Operate your Tractor up and down the face of slopes (not greater than 15°), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.



SEARS

OWNER'S MANUAL

MODEL NO. 944.605281

HOW TO ORDER REPAIR PARTS

CRAFTSMAN®

18.0 HP ELECTRIC START 3 in One convertible 42" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

Each tractor has its own model number. Each engine has its own model number.

The model number for your tractor will be found on the model plate located under the seat.

The model number for your engine will be found on the blower housing of the engine.

All parts listed herein may be ordered from any Sears Canada, Inc. Service Centre/Department and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- **PRODUCT - TRACTOR**
- **MODEL NUMBER - 944.605281**
- **ENGINE MODEL NUMBER - MV18S-58560**
- **PART NUMBER**
- **PART DESCRIPTION**

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SEARS HAS ACCESS TO OVER 800,000 PARTS

WHETHER IT'S A SPARK PLUG OR LAWNMOWER BLADE.

SEARS PARTS AND SERVICE CAN SUPPLY YOU WITH
TOP QUALITY REPAIR PARTS FOR ALL YOUR PRODUCTS.

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Montreal - 333-5740

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Halifax - 454-2444

Kitchener - 894-7590

Ottawa - 738-4440

Vancouver - 420-8211

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