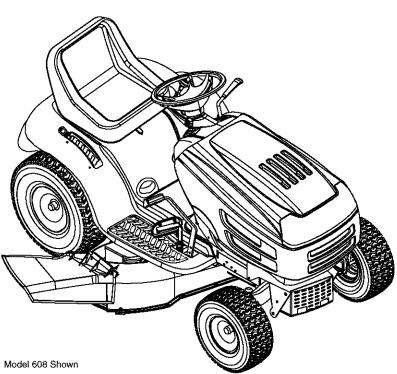


# **OPERATOR'S MANUAL**

**Automatic Lawn Tractor** Models 607

608

609



#### IMPORTANT: READ SAFETY RULES AND INSTRUCTIONS CAREFULLY

Warning: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forestcovered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized dealer or contact the service department, P.O. Box 368022 Cleveland, Ohio 44136-9722.

MTD PRODUCTS, INC P.O. BOX 368022 CLEVELAND, OHIO 44136-9722

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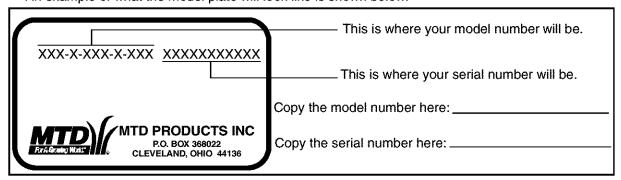
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#### SECTION 2: FINDING YOUR MODEL NUMBER

This Operator's Manual is an important part of your new rider. It will help you assemble, prepare and maintain your rider. Please read and understand what it says.

Before you start to prepare your rider for its first use, please locate the model plate and copy the information from it in this Operator's Manual. The information on the model plate is very important if you need help from your dealer or the MTD customer support department.

- Every tractor has a model plate. You can locate it by lifting the seat and looking at the seat bracket.
- · An example of what the model plate will look like is shown below.



#### SECTION 3: CALLING CUSTOMER SUPPORT

- LOCATE YOUR MODEL NUMBER AND SERIAL NUMBER Record this information in the space provided. To find your unit's specific model number and serial number, see SECTION 2: FINDING YOUR MODEL NUMBER.
- If you are having difficulty assembling this product or if you have any questions regarding the controls, operation or maintenance of this unit, please call the Customer Support Department.
- Please have your model number and serial number ready when you call.
- Although both numbers are important, you will be asked to enter only your serial number before your call can be processed.

#### SECTION 4: IMPORTANT SAFE OPERATION PRACTICES



**WARNING:** THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL, HEED ITS WARNING.



**WARNING:** The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



**DANGER:** Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This lawn mower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

#### 1. GENERAL OPERATION

- Read, understand, and follow all instructions in the operator's manual and on the machine before starting. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Only allow responsible individuals familiar with the instructions to operate the machine. Know controls and how to stop the machine quickly.
- Do not put hands or feet under cutting deck or near rotating parts.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade. A small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury to you or a bystander. To help avoid a thrown objects injury, keep children, bystanders and helpers at least 75 feet from the mower while it is in operation. Always wear safety glasses or safety goggles during operation or while performing an adjustment or repair, to protect eyes from foreign objects. Stop the blade(s) when crossing gravel drives, walks or roads.
- Be sure the area is clear of other people before moving. Stop machine if anyone enters the area.
- · Never carry passengers.
- Disengage blade(s) before shifting into reverse and backing up. Always look down and behind before and while backing.
- Be aware of the mower and attachment discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the chute guard in place.
- Slow down before turning. Operate the machine smoothly. Avoid erratic operation and excessive speed.

- Never leave a running machine unattended. Always turn off blade(s), place transmission in neutral, set park brake, stop engine and remove key before dismounting.
- · Turn off blade(s) when not mowing.
- Stop engine and wait until blade(s) comes to a complete stop before (a) removing grass catcher or unclogging chute, or (b) making any repairs, adjusting or removing any grass or debris.
- · 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. This unit should not be driven up or down a ramp onto a trailer or truck under power, because the unit could tip over, causing serious personal injury. The unit must be pushed manually on a ramp to load or unload properly.
- Never make a cutting height adjustment while engine is running if operator must dismount to do so.
- Wear sturdy, rough-soled work shoes and closefitting slacks and shirts. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a unit in bare feet, sandals, or sneakers.
- Check overhead clearance carefully before driving under power lines, wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.

- Disengage all attachment clutches, thoroughly depress the brake pedal, and shift into neutral before attempting to start engine.
- Your mower is designed to cut normal residential grass of a height no more than 10". Do not attempt to mow through unusually tall, dry grass (e.g., pasture) or piles of dry leaves. Debris may build up on the mower deck or contact the engine exhaust presenting a potential fire hazard.

#### 2. 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.

For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15° as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

#### DO:

- · Mow up and down slopes, not across.
- · Remove obstacles such as rocks, limbs, etc.
- Watch for holes, ruts or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Always keep machine in gear when going down slopes to take advantage of engine braking action.
- 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. Rapid engagement or braking could cause the front of the machine to lift and rapidly flip over backwards which could cause serious injury.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blade(s) and proceed slowly straight down the slope.

#### DO NOT:

- Do not turn on slopes unless necessary; 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.

#### 3. 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 in watchful care of an adult other than the operator.
- 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, even with the blades off. They
  may fall off and be seriously injured or interfere with
  the safe machine operation.
- Never allow children under 14 years old to operate the machine. Children 14 years and over should only operate machine under close parental supervision and proper instruction.
- Remove key when machine is unattended to prevent unauthorized operation.
- Use extra care when approaching blind corners, shrubs, trees or other objects that may obscure your vision of a child or other hazard.

#### 4. SERVICE

- Use extreme care in handling gasoline and other fuels. They are extremely flammable and the vapors are explosive.
- · Use only an approved container.
- Never remove fuel cap or add fuel with the engine running. Allow engine to cool at least two minutes before refueling.
- Replace fuel cap securely and wipe off any spilled fuel before starting the engine as it may cause a fire or explosion.
- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Never refuel the machine indoors because fuel vapors will accumulate in the area.
- Never store the fuel container or machine inside where there is an open flame or spark, such as a gas hot water heater, space heater or furnace.
- · Never run a machine inside a closed area.
- To reduce fire hazard, keep the machine free of grass, leaves or other debris build-up. Clean up oil or fuel spillage. Allow machine to cool at least 5 minutes before storing.
- Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
- Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also, visually inspect blade for damage (e.g., excessive wear, bent, cracked). Replace with blade which meets original equipment specifications.

- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly. Use all guards as instructed in this manual.
- After striking a foreign object, stop the engine, remove the wire from the spark plug and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
- Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. For your safety protection, 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 blade(s).
- Check brake operation frequently. Adjust and service as required.
- Muffler, engine and belt guards become hot during operation and can cause a burn. Allow to cool down before touching.

- Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
- Observe proper disposal laws and regulations.
   Improper disposal of fluids and materials can harm the environment and the ecology.
- Prior to disposal, determine the proper method to dispose of waste from your local Environmental Protection Agency. Recycling centers are established to properly dispose of materials in an environmentally safe fashion.
- Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them. Properly dispose of the containers immediately following the draining of fluids.
- DO NOT pour oil or other fluids into the ground, down a drain or into a stream, pond, lake or other body of water. Observe Environmental Protection Agency regulations when disposing of oil, fuel, coolant, brake fluid, filters, batteries, tires and other harmful waste.



**WARNING - YOUR RESPONSIBILITY:** Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.



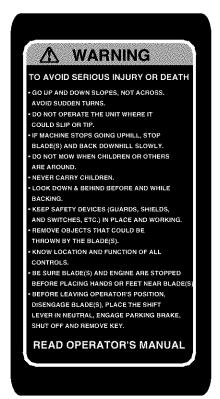
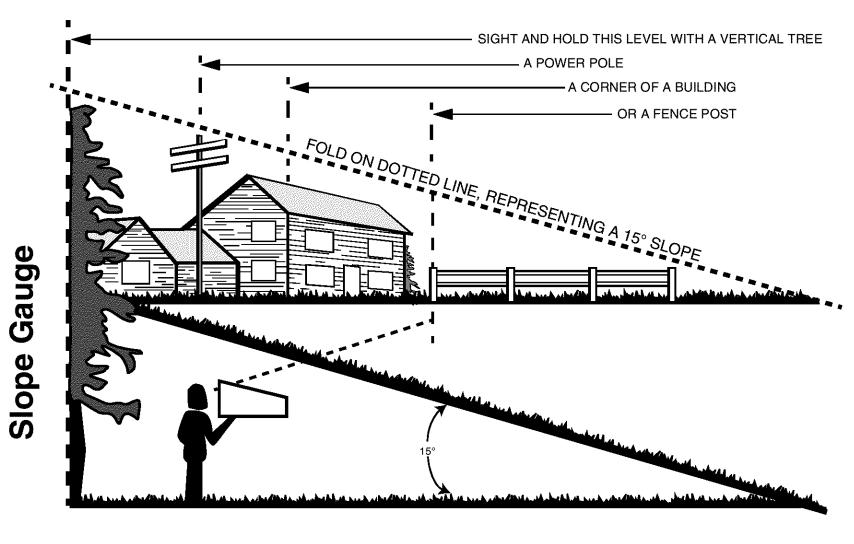


Figure 1 Safety Labels found on your unit

#### Q

#### USE THIS PAGE AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.





Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

Operate RIDING mowers up and down slopes, never across the face of slopes.

#### SECTION 5: ATTACHMENTS & ACCESSORIES

| MODEL NUMBER | DESCRIPTION  |
|--------------|--|
| OEM-190-601  | FastAttach <sup>™</sup> Twin Bagger Grass Collector (For 42-inch Decks Only) |
| OEM-190-602  | FastAttach Twin Bagger Grass Collector (For 46-inch Decks Only)              |
| OEM-190-112  | Mulch Kit (For 42-inch Decks Only)   |
| OEM-190-118  | Mulch Kit (For 46-inch Decks Only)   |
| OEM-190-603  | FastAttach Grille Guard (mounts on front of tractor)                         |
| OEM-190-604  | TracPac <sup>™</sup> Storage Container (mounts on rear of tractor)           |
| OEM-190-822  | FastAttach 46-inch Front Dozer Blade   |
| OEM-190-823  | 42-inch Two-stage Snow Thrower   |

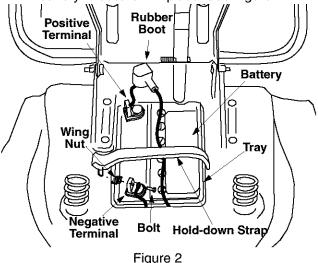
**NOTE:** Your tractor is NOT designed for use with any type of ground-engaging attachments (e.g. tiller, plow). Use of this type of equipment WILL void the tractor's warranty.

#### **SECTION 6: TRACTOR SET-UP**

#### ATTACHING THE BATTERY CABLES

**NOTE:** The positive battery terminal is marked Pos. (+). The negative battery terminal is marked Neg. (-).

- The positive cable (heavy red wire) is secured to the positive battery terminal (+) with hex bolt and hex nut at the factory. Make certain that the rubber boot covers the terminal to help protect it from corrosion.
- Remove the hex bolt and wing nut from the negative cable. Attach the negative cable (heavy black wire) to the negative battery terminal (-) with the bolt and wing nut.
- Place the hold-down strap in position over the battery to secure it in place. See Figure 2.



**NOTE:** If battery is put into service after date shown on top of battery, charge for minimum of one hour at 6-10 amps. Refer to the MAINTENANCE section of this manual for more detailed instructions regarding proper battery charging procedure.

#### GAS AND OIL FILL-UP

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your tractor. Read instructions carefully.

**IMPORTANT:** Your tractor is shipped with oil; however, you **MUST** check the oil level before operating. Be careful not to overfill.



**WARNING:** Overfilling with oil may cause the engine to smoke. This will result in poor engine performance and could cause permanent engine damage.

The gasoline tank is located under the hood and has a capacity of approximately two gallons. Do not overfill.



**WARNING:** Never fill fuel tank indoors, gasoline produces noxious fumes. Always fill the fuel tank in a well ventilated area to avoid inhalation of gasoline fumes.



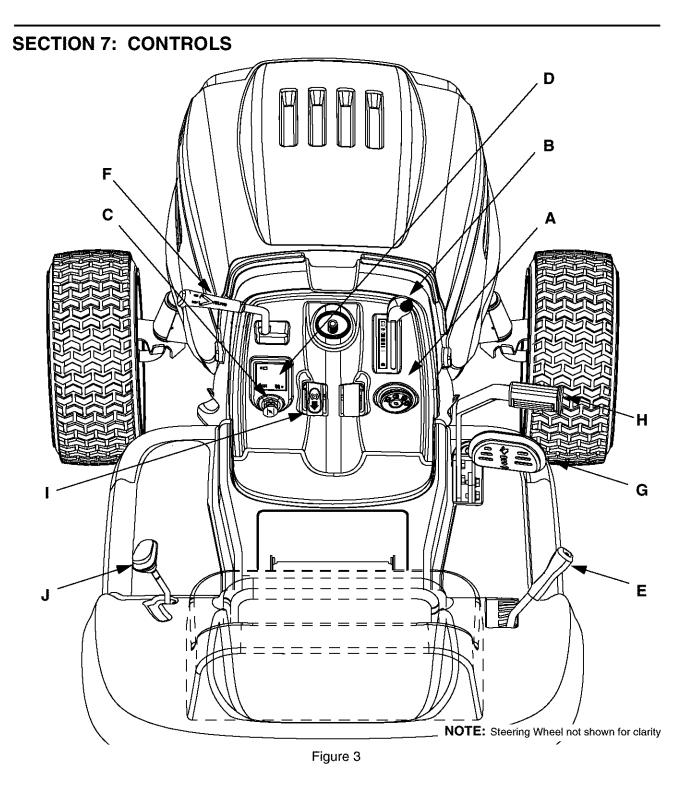
**WARNING:** Never fill the fuel tank while engine is running or while engine is hot.



**WARNING:** Never smoke while fueling your tractor. Gasoline produces combustible fumes which can ignite and cause personal injury.



**WARNING:** Do not fill closer than 1/2 inch from the top of the fuel tank to prevent spills and to allow for fuel expansion. If gasoline is accidently spilled, move tractor away from area of spill. Avoid creating any source of ignition until gasoline vapors have disappeared.



- A Ignition Switch
- B Throttle Control Lever
- C Choke Control (if so equipped)
- D Indicator Monitor
- E Lift Lever

- F PTO (Power Take-Off) Lever
- G Drive Pedal
- H Brake Pedal
- I Parking Brake Button
- J Shift Lever

NOTE: Any reference in this manual to the RIGHT or LEFT side of the tractor is observed from operator's position.

#### **IGNITION SWITCH**

To start the engine, insert key into the ignition switch and turn clockwise to the **START** position. Release key to the **ON** position once engine has fired. See Figure 4. Refer to STARTING THE ENGINE in the OPERATION section of this manual for detailed starting instructions. The ignition switch is also used to operate the headlights. Refer to OPERATING THE HEADLIGHTS in the OPERATION section of this manual for detailed instructions



**WARNING:** Remove the key from the tractor when the tractor is not in use to prevent accidental starting.

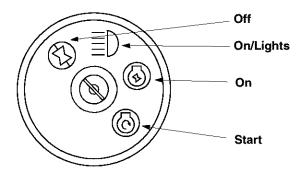


Figure 4

#### THROTTLE CONTROL LEVER

The throttle lever is located on the right side of the tractor's dash panel. This lever controls the speed of the engine, and on some units the choke control also. When set in a given position, the throttle will maintain a uniform engine speed. See Figure 5.

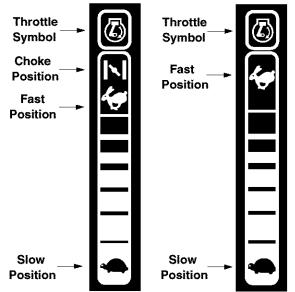
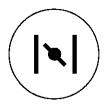


Figure 5

**IMPORTANT:** When using PTO operated equipment such as the cutting deck or other attachments, ALWAYS operate the tractor with the throttle lever in the FAST (rabbit) position.

#### CHOKE CONTROL

On some units, moving the throttle lever all the way forward activates the engine's choke control. On all other units, the choke control can be found on the left side of the dash panel and is activated by



pulling the knob outward. Activating the choke control closes the choke plate on the carburetor and aids in starting the engine. Refer to STARTING THE ENGINE in the OPERATION section of this manual for detailed starting instructions.

#### INDICATOR MONITOR

Your tractor is equipped with a systems indicator monitor on the left side of the dash panel. See Figure 6.

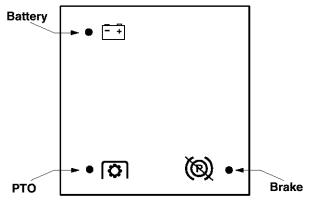


Figure 6

If a light illuminates when attempting to start the unit, proceed as follows:

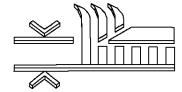
BRAKE — Depress the brake pedal.

PTO — Move PTO knob into the disengaged

(OFF) position.

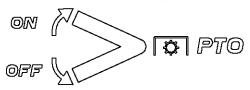
The BATTERY indicator light will illuminate any time the ignition key is the On position and the engine is not running. If it illuminate's while the engine is running, it indicates that the battery is in need of a charge. Refer to the MAINTENANCE section of this manual for the proper battery charging procedure.

#### LIFT LEVER



The lift lever is used to change the operating position (height) of the cutting deck. To operate, move the lever to the left, then place in the notch best suited for your application.

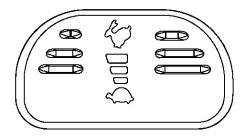
#### PTO (POWER TAKE-OFF) LEVER



The PTO lever is located on the left side of the dash next to the steering wheel. Move the PTO lever forward to engage the power to the cutting deck or other attachments; move the PTO lever backward (toward the rear of the tractor) to disengage the power to the attachments.

**NOTE:** The PTO lever **must** be in the disengaged (OFF) position when starting the engine, when shifting into reverse and if the operator leaves the seat.

#### **DRIVE PEDAL**



The drive pedal is located below the brake pedal on the right front side of the tractor along the running board. Depress the drive pedal with your right foot when the tractor shift lever is in either forward or reverse to cause the tractor to move. Ground speed is also controlled with the drive pedal. The further down the pedal is depressed, the faster the tractor will travel. The pedal will return to its original position when it's not depressed.

**IMPORTANT:** Always set the parking brake when leaving the tractor unattended.

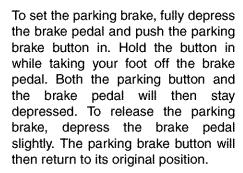
#### **BRAKE PEDAL**



The brake pedal is located on the right front side of the tractor above the drive pedal along the running board. The brake pedal can be used for sudden stops or for setting the parking brake.

**NOTE:** The brake pedal must be fully depressed to activate the safety interlock switch when starting the tractor.

#### PARKING BRAKE BUTTON







**NOTE:** The parking brake must be set if the operator leaves the seat with the engine running or the engine will automatically shut off.

**IMPORTANT:** Always set the parking brake when leaving the tractor unattended.

#### SHIFT LEVER

The shift lever is located on the left side of the fender and has three positions, FORWARD, NEUTRAL and REVERSE. The brake pedal must be depressed and the tractor must not be in motion when moving the shift lever.

**IMPORTANT:** Never force the shift lever. Doing so may result in serious damage to the tractor's transmission.



#### **SECTION 8: OPERATION**

#### SAFETY INTERLOCK SWITCHES

This tractor is equipped with a safety interlock system for the protection of the operator. If the interlock system should ever malfunction, do not operate the tractor. Contact an authorized dealer in your area. The safety interlock system prevents the engine from cranking or starting unless the brake pedal is fully depressed, and the PTO knob is in the disengaged (OFF) position.

- The safety interlock system will automatically shut off the engine if the operator leaves the seat before engaging the brake lock.
- The safety interlock system will automatically shut off the engine if the operator leaves the seat with the PTO knob in the engaged (ON) position, regardless of whether the brake lock is engaged. The PTO knob must be in the disengaged (OFF) position to restart the engine.
- The safety interlock system will automatically shut off the engine if the PTO knob is moved into the engaged (ON) position with the shift lever in the REVERSE position.



**WARNING:** Do NOT attempt to bypass or disconnect the tractor's safety interlock. Doing so could result in serious personal injury or death.

**IMPORTANT:** Tampering with or attempting to bypass the tractors Safety Interlock Switches in any way WILL void your warranty.



### WARNING

#### AVOID SERIOUS INJURY OR DEATH

- GO UP AND DOWN SLOPES, NOT ACROSS.
- AVOID SUDDEN TURNS.
- DO NOT OPERATE THE UNIT WHERE IT COULD SLIP OR TIP.
- IF MACHINE STOPS GOING UPHILL, STOP BLADE(S) AND BACK DOWNHILL SLOWLY.
- . DO NOT MOW WHEN CHILDREN OR OTHERS ARE AROUND.
- NEVER CARRY CHILDREN.
- · LOOK DOWN AND BEHIND BEFORE AND WHILE BACKING.
- KEEP SAFETY DEVICES (GUARDS, SHIELDS, AND SWITCHES) IN PLACE AND WORKING.
- REMOVE OBJECTS THAT COULD BE THROWN BY THE BLADE(S).
- KNOW LOCATION AND FUNCTION OF ALL CONTROLS.
- BE SURE BLADE(S) AND ENGINE ARE STOPPED BEFORE PLAC-ING HANDS OR FEET NEAR BLADE(S).
- BEFORE LEAVING OPERATOR'S POSITION, DISENGAGE BLADE(S), PLACE THE SHIFT LEVER IN NEUTRAL, ENGAGE BRAKE LOCK, SHUT ENGINE OFF AND REMOVE KEY.

READ OPERATOR'S MANUAL

#### SETTING THE CUTTING HEIGHT

Select the height position of the cutting deck by placing the deck lift lever in any of the six different cutting height notches on the right side of the fender. Then adjust the deck wheels so that they are at least 1/4 inch to 1/2 inch above the ground when the tractor is on a smooth, flat surface such as a driveway.



**WARNING:** Keep hands and feet away from the discharge chute opening of the cutting deck.

**NOTE:** The deck wheels are an anti-scalp feature of the deck and are not designed to support the weight of the cutting deck.

Refer to the ADJUSTMENTS section of this manual for more detailed instructions regarding various deck adjustments.

#### STARTING THE ENGINE

**NOTE:** Refer to the TRACTOR SET-UP section of this manual for gasoline and oil fill-up instructions.

- Insert the tractor key into the ignition switch.
- Place the PTO knob in the disengaged (OFF) position.
- Depress the brake pedal and set the parking brake.
- Place the shift lever in the NEUTRAL position.
- Move the throttle control lever into the FAST (or CHOKE, if so equipped) position.
- Pull out the choke control knob, if so equipped (a warm engine may not require choking).
- Turn the ignition key clockwise to the START position. After the engine starts, release the key. It will return to the ON position.

**IMPORTANT:** Do NOT hold the key in the START position for longer than ten seconds at a time. Doing so may cause damage to your engine's starter.

**NOTE:** If starting problems are encountered, refer to the TROUBLESHOOTING section of this manual.

After the engine starts, slowly release the brake pedal. As the engine warms up, gradually push the choke control knob inward (or move the throttle control lever out of the CHOKE position) to open up the choke plate on the engine's carburetor.

**NOTE:** Do NOT leave the choke control out while operating the tractor. Doing so will result in a "rich" fuel mixture and cause the engine to run poorly.

#### STOPPING THE ENGINE

- Place the PTO knob in the disengaged (OFF) position
- Move the throttle control into the SLOW (turtle) position and allow the engine to "idle down" for ten seconds. Failure to do so may result in an engine afterfire.
- Turn the ignition key counterclockwise to the OFF position.
- Remove the key from the ignition switch to prevent accidental starting.

**IMPORTANT:** If you think you've struck a foreign object, stop the engine immediately. Remove the wire(s) from the spark plug(s), thoroughly inspect the unit for any damage, and repair the damage before restarting and operating the tractor.

#### DRIVING THE TRACTOR



**WARNING:** Avoid sudden starts, excessive speed and sudden stops.



**WARNING:** Do not leave the seat of the tractor without first placing the PTO knob in the disengaged (OFF) position, depressing the brake pedal and engaging the parking brake. If leaving the tractor unattended, also turn the ignition key off and remove the key.

 Depress the brake pedal to release the parking brake and let the pedal up. Move the throttle lever into the FAST (rabbit) position.

**IMPORTANT:** Do NOT use the shift lever to change the direction of travel when the tractor is in motion. Always use the brake pedal to bring the tractor to a complete stop before shifting.

- To move forward, place the shift lever in the FORWARD position, then slowly depress the drive pedal until the desired speed is achieved.
- To move in reverse, place the shift lever in the REVERSE position, check that the area behind is clear then slowly depress the drive pedal.

#### **DRIVING ON SLOPES**

Refer to the SLOPE GAUGE on page 6 to help determine slopes where you may not operate safely.



**WARNING:** Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet every 10 feet). The tractor could overturn and cause serious injury.

Operate the tractor up and down slopes, never across slopes. Do not drive so that the tractor may tip over sideways.

Before operating the tractor on any slope, walk the slope to look for possible hazards such as rocks. mounds, ruts, stumps or other surface irregularities which could cause the tractor to be upset.

Avoid turns when driving on a slope. If a turn must be made, turn down the slope. Turning up a slope greatly increases the chance of a roll over.

Avoid stopping when driving up a slope. If it is necessary to stop while driving up a slope, start up smoothly and carefully to reduce the possibility of flipping the tractor over backward.

#### OPERATING THE HEADLIGHTS

To turn the tractor's headlights on:

- Start the engine following the instructions earlier in this section.
- Turn the key one notch counterclockwise into the On/Lights position of the ignition switch. Refer to Figure 4.

To turn the tractor's headlights off:

• Turn the key either into the On position (to leave the engine running) or the Off position (to shut the engine off). Refer to Figure 4.

**IMPORTANT:** Never move the key into the Start position while the engine is running. Doing so may cause damage to your engine's starter.

#### STOPPING THE ENGINE

- Place the PTO knob in the disengaged (OFF) position.
- Move the throttle control into the SLOW position and allow the engine to "idle down" for ten seconds, then turn the ignition key counterclockwise to the OFF position.
- Remove the key from the ignition switch to prevent accidental starting.

**IMPORTANT:** If you think you've struck a foreign object, stop the engine immediately. Remove the wire(s) from the spark plug(s), thoroughly inspect the unit for any damage, and repair the damage before restarting and operating the mower.

#### **USING THE LIFT LEVER**

To raise the cutting deck, move the lift lever to the left, then place it in the notch best suited for your application. Refer to SETTING THE CUTTING HEIGHT earlier in this section.

### ENGAGING THE PTO (POWER TAKE-OFF) LEVER

- Move the throttle control lever to the FAST (rabbit) position.
- Move the PTO lever forward into the engaged (ON) position.
- Keep the throttle lever in the FAST (rabbit) position for the most efficient use of the cutting deck and other attachments.
- The operator must remain in the tractor seat at all times. If the operator should leave the seat without moving the PTO lever into the disengaged (OFF) position and setting the parking brake, the engine will shut off.

**IMPORTANT:** The PTO lever cannot be in the engaged (ON) position when the tractor is driving in the reverse direction. The safety interlock system will automatically shut off the engine if the PTO lever is moved into the engaged (ON) position with the shift lever in the REVERSE position. Refer to SAFETY INTERLOCK SWITCHES earlier in this section.

#### **MOWING**

This tractor comes equipped with a cutting deck. The following information will be helpful when using the cutting deck with your tractor.



**WARNING:** To avoid possible injury, do not allow anyone in the area of the tractor while mowing. Even if the area to be mowed has been cleared of foreign objects, small objects may be picked up and discharged by the mower.



**WARNING:** Never direct the discharge of material toward bystanders or allow anyone near the machine while in operation.

- For best results it is recommended that the first two laps be cut with the discharge thrown towards the center. After the first two laps, reverse the direction to throw the discharge to the outside for the balance of cutting. This will give a better appearance to the lawn.
- Do not cut the grass too short. Short grass invites weed growth and yellows quickly in dry weather.
- Mowing should always be done with the engine at full throttle.
- Do not mow at high ground speed, especially if a mulch kit or grass collector is installed.
- Under heavier conditions it may be necessary to go back over the cut area a second time to get a clean cut.
- Do NOT attempt to mow heavy brush and weeds and extremely tall grass. Your tractor is designed to mow lawns, NOT clear brush.
- Keep the blades sharp and replace the blades when worn. Refer to the MAINTENANCE section of this manual for proper blade sharpening instructions.

#### **SECTION 9: ADJUSTMENTS**

#### LEVELING THE DECK



**WARNING:** Cutting blades are sharp. Always protect hands by wearing heavy leather work gloves to grasp blades.

**NOTE:** Check the tractor's tire pressure before performing any deck leveling adjustments. Refer to TIRES in the maintenance section of this manual for further information regarding tire pressure.

#### Front to Rear

The front of the cutting deck is supported by a stabilizer bar that can adjusted to level the deck from front to rear. The front of the deck should be 1/4" to 3/8" lower than the rear of the deck. Adjust if necessary as follows:



**WARNING:** Turn the tractor's engine off, remove the key from the ignition switch and apply the tractor's parking brake before making any adjustments to the cutting deck.

- With the tractor parked on a firm, level surface, place the lift lever in the top notch (highest position) and rotate the blade nearest the discharge chute so that it is parallel with the tractor.
- Measure the distance from the front of the blade tip to the ground and from the rear of the blade tip to the ground. The first measurement taken should be between 1/4" and 3/8" less than the second measurement.

- Determine the approximate distance necessary for proper adjustment and proceed, if necessary, to the next step.
- Loosen the two jam nuts on the rear side of the deck stabilizer bracket. See Figure 7A.
- Locate the two lock nuts on the opposite side of the stabilizer bracket. See Figure 7A.
   Tighten the lock nuts to raise the front of the deck; loosen the lock nuts to lower the front of the deck.
- Retighten the two jam nuts loosened earlier when proper adjustment is achieved.

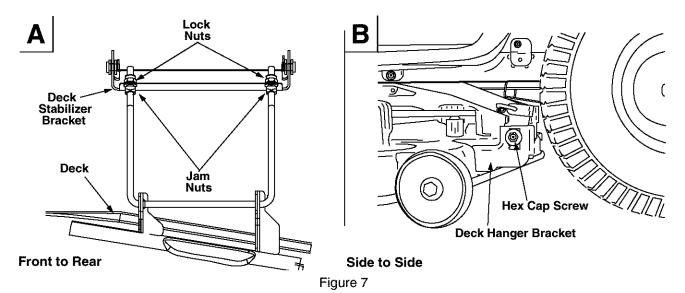
#### Side to Side

If the cutting deck appears to be mowing unevenly, a side-to-side adjustment can be performed. Adjust if necessary as follows:



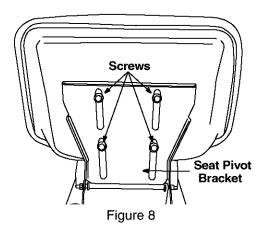
**WARNING:** Turn the tractor's engine off, remove the key from the ignition switch and apply the tractor's parking brake before making any adjustments to the cutting deck.

- With the tractor parked on a firm, level surface, place the lift lever in the top notch (highest position) and rotate the both blades so that they are perpendicular with the tractor.
- Measure the distance from the outside of the left blade tip to the ground and the distance from the
  outside of the right blade tip to the ground. Both measurements taken should be equal. If they're not,
  proceed to the next step.
- Loosen, but do NOT remove, the hex cap screw on the left deck hanger bracket. See Figure 7B.
- Balance the deck so that both blade tip measurements taken earlier are equal.
- Retighten the hex cap screw on the left deck hanger bracket when proper adjustment is achieved.



#### **SEAT ADJUSTMENT**

To adjust the position of the seat, loosen, but do NOT remove the four screws which secure the seat to the seat pivot bracket. Slide the seat forward or backward until desired position is reached. Retighten the four screws. See Figure 8.



#### **BRAKE ADJUSTMENT**

If the tractor does not come to a complete stop when the brake pedal is completely depressed, or if the tractor's rear wheels can roll with the parking brake applied, the brake is in need of adjustment. The brake disc can be found on the right side of the transmission in the rear of the tractor. Adjust if necessary as follows:

- Looking at the transmission from the right side of the tractor, locate the compression spring and brake disc. See Figure 9.
- Loosen, but do NOT remove, the hex nut found on the right side of the brake assembly. See Figure 9.
- Using a feeler gauge, set the gap between the brake disc and the brake puck at .011".
- · Re-tighten the hex nut loosened earlier.

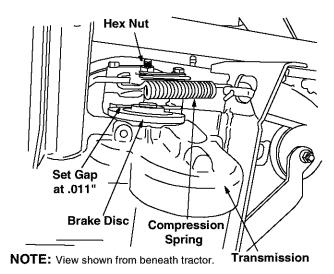


Figure 9

#### STEERING ADJUSTMENT

If the tractor turns tighter in one direction than the other, or if the ball joints are being replaced due to damage or wear, the steering drag links may need to be adjusted.

Adjust the drag links so that equal lengths are threaded into the ball joint on the left side and the ball joint on the right side:

- Loosen the jam nut found on the drag link at the rear of the ball joint. See Figure 10.
- Remove the hex nut and lock washer on the top of ball joint. See Figure 10.
- Thread the ball joint toward the jam nut to shorten the drag link. Thread the ball joint away from the jam nut to lengthen the drag link.

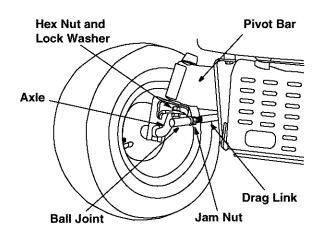


Figure 10

 Replace hex nut and lock washer and retighten the jam nut after proper adjustment is achieved.

**NOTE:** Threading the ball joints too far onto the drag links will cause the front tires to "toe-in" too far. Proper toe-in is between 1/16" and 5/16".

Front tire toe-in can be measured as follows:

- Place the steering wheel in position for straight ahead travel. Insert a 1/4" dowel up through aligning holes in both the steering gear and support plate. See Figure 11.
- In front of the axle, measure the distance horizontally from the inside of the left rim to the inside of the right rim. Note the distance.
- Behind the axle, measure the distance horizontally from the inside of the left rim to the inside of the right rim. Note the distance.
- The measurement taken in front of the axle should be between 1/16" and 5/16" less than the measurement taken behind the axle.
- · Adjust if necessary.
- Remove the dowel inserted earlier before attempting to operate the tractor.

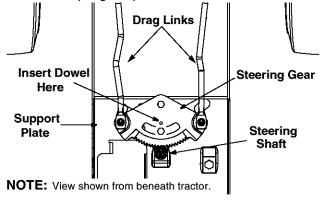


Figure 11

#### CARBURETOR ADJUSTMENT



**WARNING:** If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

**NOTE:** A dirty air cleaner will cause an engine to run rough. Be certain it is clean and properly attached before adjusting carburetor. Refer to separate engine manual packed with your unit for information regarding air cleaner maintenance.

Refer to separate engine manual packed with your unit for carburetor adjustment information or see an authorized Briggs & Stratton service dealer.

#### **SECTION 10: MAINTENANCE**



**WARNING:** Disconnect the spark plug wire(s) and ground against the engine before performing any adjustments, repairs or maintenance.

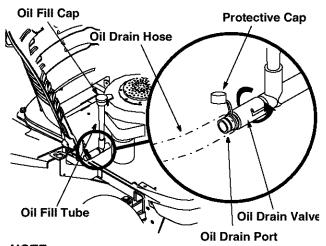
#### **ENGINE**

Refer to the separate engine manual for engine maintenance instructions.

Check **engine oil level** before each use as instructed in the separate engine manual packed with your unit. **Read and follow instructions carefully.** 

#### **Changing Engine Oil**

 Unscrew oil fill cap and remove dipstick from the oil fill tube. See Figure 12.



NOTE: Single-cylinder engine shown.
Valve location will vary with engine style.

#### Figure 12

- Pop open the protective cap on the end of the oil drain valve to expose the oil drain port. See Figure 12.
- Push oil drain hose (packed with unit) onto the oil drain port. Route the opposite end of the hose into an appropriate oil collection container with a capacity great enough to collect the used oil.

- Push the oil drain valve in slightly, then rotate counterclockwise and pull outward to begin draining oil. See Figure 12.
- Service the oil filter (if so equipped) as instructed in the separate engine manual packed with your unit.

Perform the above steps in the opposite order after oil has finished draining.

· Refill the engine with new motor oil.

**IMPORTANT:** Refill the engine with the proper capacity and weight of motor oil as instructed in the separate engine manual.

Service **air cleaner** every 25 hours under normal conditions. Clean every few hours under extremely dusty condition. To service the air cleaner, refer to the separate engine manual packed with your unit.

The **spark plug(s)** should be cleaned and the gap reset once a season. Replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

#### CLEANING THE ENGINE AND DECK

Any fuel or oil spilled on the machine should be wiped off promptly. Do NOT allow grass, leaves, and dirt to accumulate around the cooling fins of the engine or on any other part of the machine, especially the pulleys and other moving parts. Clean the underside of the deck with a wisk broom, putty knife or forced air after each mowing.

**IMPORTANT:** The use a pressure washer or garden hose to clean your tractor is NOT recommended. It may cause damage to electrical components, spindles, pulleys, bearings or the engine. The use of water will result in a shortened life of the tractor and reduce its serviceability.

#### **CUTTING DECK REMOVAL**



**WARNING:** Before performing any maintenance, move the PTO knob into the disengaged (OFF) position, engage the parking brake, turn the ignition key to the OFF position and remove the key from the switch to avoid accidental starting.

Several attachments are available for your tractor. To mount some of these attachments and in order to perform certain maintenance procedures, the deck must be removed from the tractor. To properly remove the cutting deck, proceed as follows:



**WARNING:** Do NOT remove deck immediately after operating the tractor. Allow the engine and other moving parts ample time to cool down.

- Engage the parking brake.
- Move the PTO lever into the disengaged (OFF) position to relieve tension on the belt.
- Lower the deck by moving the lift lever into the bottom notch on the right fender.
- Remove the PTO belt from around the lower portion of the engine pulley and from around both PTO idler pulleys on the PTO engagement plate.

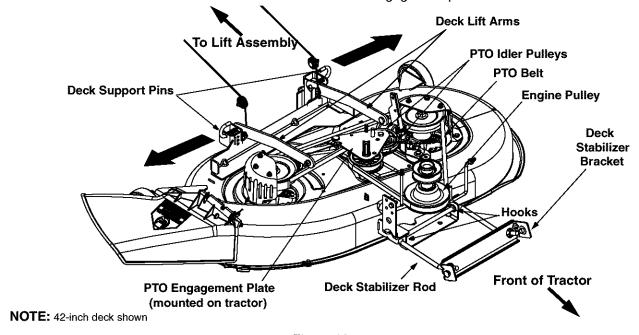


Figure 13

**NOTE:** On units equipped with a 46-inch deck, the bottommost belt on the deck does NOT need to be removed in order to remove the deck.

- Looking at the cutting deck from the right side of the tractor, locate the deck support pin on the rear right side of the deck.
- Pull the deck support pin outward to release the deck from the deck lift arm. See Figure 13.
- · Rotate the pin slightly toward the rear of the tractor and release the pin into the hole provided.
- Repeat the above steps on the left side of the tractor.
- Move the lift lever into the top notch on the right fender to raise the deck lift arms out of the way.
- Carefully move the cutting deck toward the front of the tractor allowing the hooks on the deck to release themselves from the deck stabilizer rod. Do NOT let the deck fall to the ground.
- Gently slide the cutting deck (from the right side) out from underneath the tractor.

**NOTE:** To properly remount the cutting deck, perform the above steps in reverse order. Having a second person assist you will ease this procedure.

#### CHANGING THE DECK BELT(S)

All belts on your tractor are subject to wear and should be replaced if any signs of cracking, shredding or rotting are present.

**IMPORTANT:** The V-belts found on your tractor are specially designed to engage and disengage safely. A substitute (non-OEM) V-belt can be dangerous by not disengaging completely. For a proper working machine, use factory approved belts.

To change or replace the deck belt(s) on your tractor, proceed as follows:

**NOTE:** Removing the deck from the tractor as instructed earlier in this section will ease the following steps, but is not necessary.

#### 42-inch decks

- Lower the deck by moving the lift lever into the bottom notch on the right fender.
- Remove the belt guards by removing the self-tapping screws that fasten them to the deck surface.
- Move the PTO lever into the disengaged (OFF) position to relieve tension on the belt.
- Remove the PTO belt from around the bottom portion of the engine pulley and from around the two idler pulleys found on the PTO engagement plate. See Figure 14.
- Route the new belt as shown in Figure 14, around the deck pulleys, idler pulleys and engine pulley. OEM belt part numbers are listed in the table on the following page
- · Remount the belt guards removed earlier.

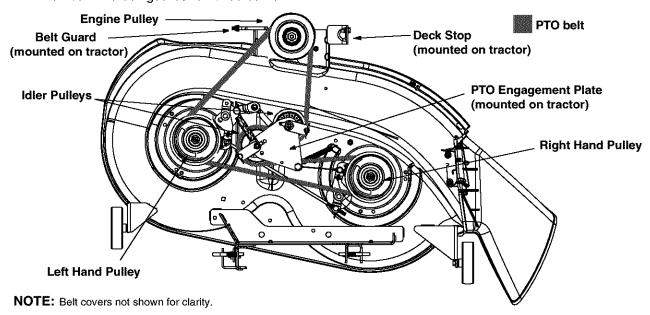


Figure 14

#### 46-inch decks

- · Lower the deck by moving the lift lever into the bottom notch on the right fender.
- Remove the belt guards by removing the self-tapping screws that fasten them to the deck surface.
- Move the PTO lever into the disengaged (OFF) position to relieve tension on the belt.
- Remove the PTO belt from around the bottom portion of the engine pulley and from around the two PTO idler pulleys found on the PTO engagement plate. See Figure 15.
- Route the new belt as shown in Figure 15, around the upper portion of the left hand deck pulley, PTO
  idler pulleys and the lower portion of the engine pulley. OEM belt part numbers are listed in the table on
  the following page.
- Remount the belt guards removed earlier.

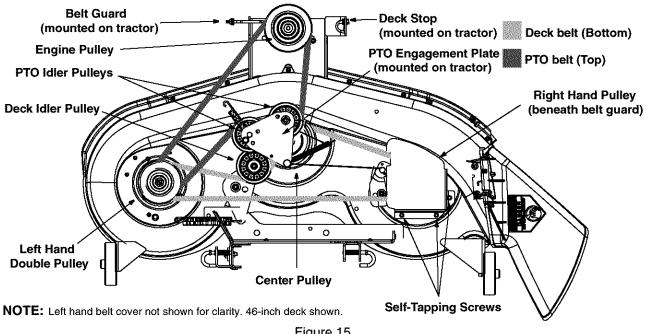


Figure 15

|                | 42-Inch Deck | 46-Inch Deck |
|----------------|--------------|--------------|
| PTO (Top) Belt | 754-0485     | 754-0486     |
| Bottom Belt    | N/A          | 754-0349     |

#### CHANGING THE TRANSMISSION DRIVE BELT(S)

All belts on your tractor are subject to wear and should be replaced if any signs of cracking, shredding or rotting are present.

**IMPORTANT:** The V-belts found on your tractor are specially designed to engage and disengage safely. A substitute (non-OEM) V-belt can be dangerous by not disengaging completely. For a proper working machine, use factory approved belts.

To change or replace the drive belt(s) on your tractor, proceed as follows:

NOTE: It's recommended that both drive belts be replaced at the same time.

- · Remove the cutting deck as instructed earlier in this section.
- · After disconnecting the battery cables, remove the battery and battery tray from beneath the seat.

IMPORTANT: When removing the battery, disconnect the NEGATIVE (Black) wire from it's terminal first, followed by the POSITIVE (Red) wire. Re-install in reverse order.

#### **Upper Drive Belt**

- Locate the transmission idler pulley on the upper drive belt by looking through the battery tray opening. See Figure 16.
- · Grasp the bracket and pivot the transmission idler pulley toward the rear of the tractor to release tension on the upper drive belt.
- Remove the belt from around the transmission idler pulley.
- Remove the upper drive belt from around the transmission pulley and the variable-speed pulley.

**NOTE:** Slowly rotate the pulley counterclockwise to roll the belt off of it.

- · Remove the upper drive belt by pulling it up through the battery tray opening.
- · Reroute the new upper drive belt as shown in Figure 16.

#### **Lower Drive Belt**

**NOTE:** Proper removal of the lower drive belt requires the removal of several tractor components. Read through the following procedure prior to attempting it to determine if you feel you could successfully complete it. If you don't, see an authorized MTD service dealer to have the belt changed.

**IMPORTANT:** Note the routing of the lower drive belt around both the pulleys and the belt keepers BEFORE performing the following steps.

- Locate the variable-speed pulley by looking through the battery tray opening. See Figure 16.
- Remove the variable-speed pulley by loosening the hex bolt that secures it to the transmission. Use a second wrench to hold the hex nut on the bottom side of the pulley.
- Slide the belt off of the variable-speed pulley as you lift the pulley up and out through the battery tray
  opening.

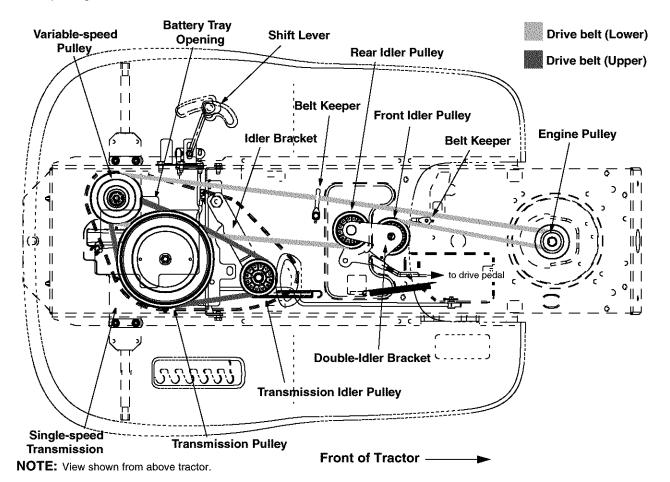


Figure 16

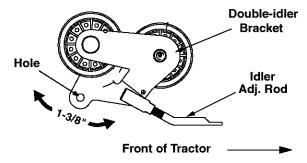
- Remove the hex bolt from the center of the engine pulley. See Figure 17.
- Lower the engine pulley far enough to be able to remove the upper drive belt from around it.

**IMPORTANT:** When remounting the engine pulley, torque the center hex bolt to between 38 footpounds and 50 foot-pounds.

 Remove the drive belt by feeding it from both ends toward the front idler pulley on the double-idler bracket. See Figure 16.

- Reassemble by following the above steps in reverse order.
- Reroute the new belt around the pulleys and belt keepers EXACTLY as the old one was routed. Refer to Figure 16.

The drive pedal is properly adjusted when the hole found in the double-idler bracket has approximately 1-3/8" of travel with ten pounds of pressure applied to the drive pedal. See Figure 17.



NOTE: View shown from above tractor.

#### Figure 17

Adjust the drive pedal after replacing the drive belts on your tractor, if necessary, as follows:

 Locate the speed control assembly on the underside of the steering support bracket. See Figure 18.

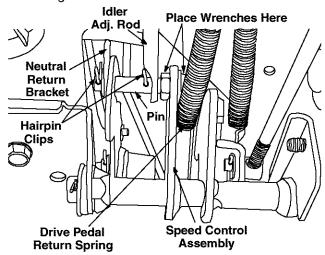


Figure 18

- Remove both hairpin clips from the pin which is fastened to the speed control assembly (be careful not to lose the small flat washers found on the pin). See Figure 18.
- Remove the drive pedal return spring.
- Using two 9/16" wrenches, remove the pin from the speed control assembly. See Figure 18.

Thread the idler adjustment rod inward or outward to lengthen or shorten the travel of the double-idler bracket until proper adjustment is achieved.

 Reassemble by following the above steps in reverse order.

#### **CUTTING BLADES**



**WARNING:** Cutting blades are sharp. Always protect hands by wearing heavy leather work gloves to grasp blades.

The blades may be removed for sharpening or replacement as follows.

- Remove the deck from beneath the tractor, (refer to DECK REMOVAL earlier in this section for detailed instructions) then gently flip the deck over to expose its underside.
- Place a block of wood between the center deck housing baffle and the cutting blade to act as a stabilizer. See Figure 19.
- Use a 15/16" wrench to remove the hex flange nut that secures the blade to the spindle assembly. See Figure 19.

**NOTE:** The hex flange nut has a right-handed (normal) thread pattern. Do NOT attempt to force the nut in the incorrect direction. Doing so may damage the nut and create a safety hazard.

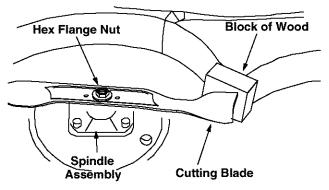


Figure 19

To properly sharpen the cutting blades, remove equal amounts of metal from both ends of the blades along the cutting edges. See Figure 20.

Sharpen the cutting edge straight across, parallel to the trailing edge, at a 25° to 30° angle. See Figure 20

**IMPORTANT:** If the cutting edge of the blade has already been sharpened to within 5/8" of the wind wing radius, or if any metal separation is present, replace the blades with new ones. See Figure 20.

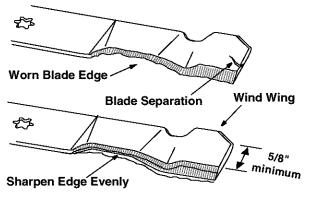


Figure 20

It is extremely important that each cutting blade edge be ground equally to maintain proper blade balance. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the tractor and result in personal injury. The blade can be tested by balancing it on a blade balancer or round shaft screwdriver. Grind metal from the heavy side until it balances evenly.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with a part number stamped in it) facing the ground when the mower is in the operating position.

**IMPORTANT:** Use a torque wrench to tighten the blade spindle hex flange nut to between 70 footpounds and 90 foot-pounds.

#### **TIRES**

The recommended operating tire pressure is approximately 10 psi for the rear tires and 14 psi for the front tires. Refer to the tire sidewall for exact tire manufacturer's recommended psi. Do not overinflate. Uneven tire pressure could cause the cutting deck to mow unevenly.

#### **BATTERY**

The battery is sealed and is maintenance-free. Acid levels cannot be checked.

- Always keep the battery cables and terminals clean and free of corrosive build-up.
- After cleaning the battery and terminals, apply a light coat of petroleum jelly or grease to the terminals and over the positive terminal boot.
- Always keep the boot positioned over the positive terminal to prevent shorting.

**IMPORTANT:** If removing the battery for any reason, disconnect the NEGATIVE (Black) wire from it's terminal first, followed by the POSITIVE (Red) wire. When re-installing the battery, always connect the POSITIVE (Red) wire its terminal first, followed by the NEGATIVE (Black) wire. Be certain that the wires are connected to the correct terminals, reversing them could change the polarity and cause damage to your engine's alternating system.

#### Charging

If the unit has not been put into use for an extended period of time, charge the battery with an automotive-type 12-volt charger for a minimum of one hour at six amps.



**WARNING:** Batteries give off an explosive gas during and for some time after charging. Charge battery in a well ventilated area and do not allow a spark or an open flame near the battery.

#### **FUSE**

A fuse is installed in your tractor's wiring harness to protect the tractor's electrical system from damage caused by excessive amperage. Always use the same capacity fuse for replacement. If the electrical system does not function, or your tractor's engine will not crank, first check to be certain that the fuse has not blown. It can be found under the hood mounted behind the top of dash panel on the support bar. Pull the fuse out and compare it with Figure 21 to determine if it is good or bad.





Figure 21

#### **SECTION 11: LUBRICATION**



**WARNING:** Always stop the engine and disconnect the spark plug wire(s) and ground against the engine before performing any maintenance.

#### **ENGINE**

Lubricate the engine with motor oil as instructed in the separate engine manual packed with your unit.

#### LINKAGE

Lubricate all the pivot points on the drive, brake and lift linkage at least once a season with SAE 30 engine oil.

#### **WHEELS**

Both the front wheels and the rear wheels should be removed from the axles once a season. Lubricate the axles and the rims well with an all-purpose automotive grease before re-installing them.

#### STEERING GEAR

Lubricate the teeth of the steering gear with an allpurpose automotive grease every 25 hours of operation or once a season.

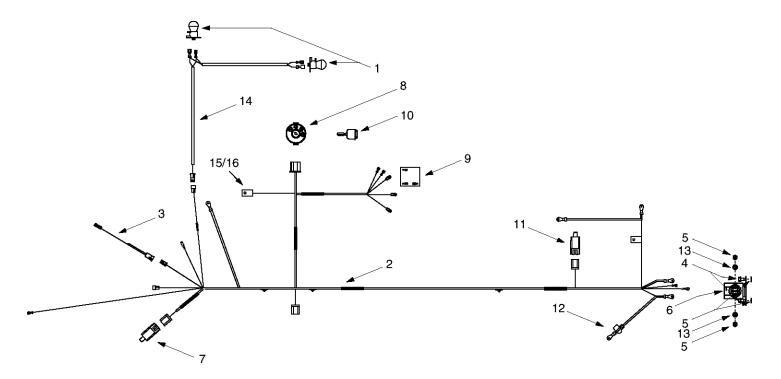
#### **PIVOT POINTS**

Lubricate all pivot points (drive pedal, brake pedal, etc.) at least once a season with light oil.

### **SECTION 12: TROUBLESHOOTING GUIDE**

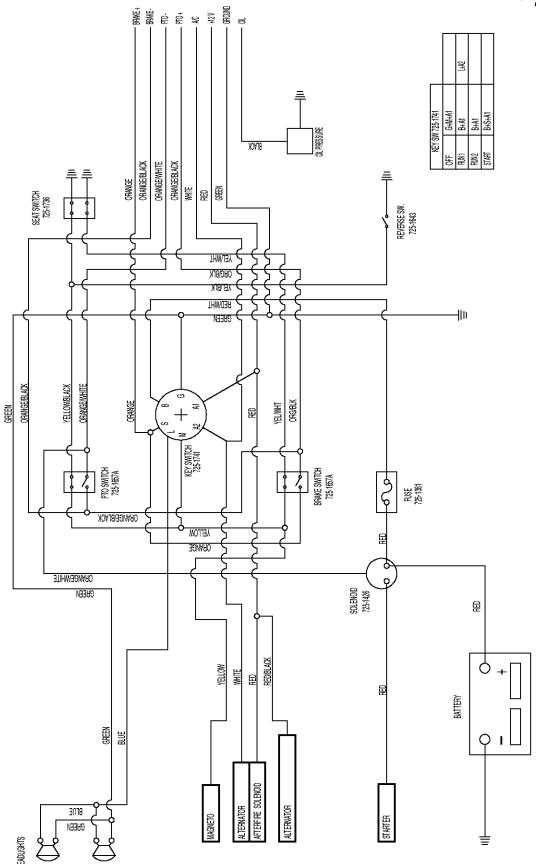
| Trouble        | Possible<br>Cause(s)                   | Corrective Action  |
|----------------|--|--|
| Engine will    | Safety switch                          | There are three safety switches in the starting circuit of your unit: the brake pedal                  |
| not crank      | button not                             | switch, the PTO switch and the seat switch. Make certain the actuator on the brake                     |
|                | depressed.                             | control is fully depressing the button on the brake pedal switch and that the actuator at              |
|                |  | the base of the PTO engagement lever is fully depressing the button on the PTO                         |
|                |  | switch. The operator must be seated on the tractor to activate the seat switch.                        |
|                | Battery installed                      | The battery must be installed with negative terminal attached to black ground wire.                    |
|                | incorrectly.                           | Negative terminal is identified at the post by "NEG", "N" or "-". The positive terminal,               |
|                |  | identified by "POS", "P" or "+", must be attached to the thick red wire which goes to the solenoid.    |
|                | Battery is dead or weak.               | Charge at six amps with a 12-volt automotive-type battery charger for one hour or until fully charged. |
|                | Blown fuse                             | Refer to page 22 for fuse location. Replace fuse with automotive type fuse of the                      |
|                | Biowii idoo                            | proper amperage. Fuses seldom fail without a reason. The problem must be                               |
|                |  | corrected. Check for loose connections in the fuse holder. Replace fuse holder if nec-                 |
|                |  | essary. A dead short may be in the cranking or charging circuit where the insulation                   |
|                |  | may have rubbed through and exposed the bare wire. Replace the wire or repair with                     |
|                |  | electrician's tape if the wire strands have not been damaged.  |
|                |  | Note: Look for a wire pinched between body panels, burned by the exhaust pipe or                       |
|                |  | muffler or rubbed against a moving part.   |
| Engine         | Throttle or choke                      | Refer to the OPERATION section of this manual for the correct position of the throttle                 |
| cranks but     | not in starting                        | control and choke for starting.  |
| will not start | 1.                                     |  |
|                | No fuel to the                         | Gasoline tank empty. Fill with clean, fresh fuel.  |
|                | carburetor.                            | Fuel line or in-line fuel filter plugged. Remove and clean fuel line. Replace fuel filter              |
|                | l., , ,                                | (if so equipped) if necessary.   |
|                | No spark to                            | Spark plug lead disconnected. Connect lead. Using a spark tester, check for spark. If                  |
|                | spark plug(s).                         | no spark is present, have engine's magneto serviced by an authorized engine dealer.                    |
|                | Dirty aircleaner.                      | If the air cleaner is dirty, the engine may not start. Refer to the engine manual packed               |
| - 1            | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | with your unit.  |
| Engine         | Engine oil has                         | Check oil level.   |
| smokes         | been overfilled.                       | Disabile and another Daylon Daylon defeative would   |
|                | Engine loses                           | Dipstick not seated or broken. Replace defective part.   |
|                | crankcase<br>vacuum.                   | Engine breather defective. Replace.  |
| Excessive      | Bent blade or                          | Stop engine immediately. Check all pulleys, blade adapters, keys and bolts for                         |
| vibration      | damaged pulley.                        | tightness and spindle damage. Tighten or replace any loose or damaged parts.                           |
| ·              | ,                                      | Always replace damaged blade. Only use original equipment blades.                                      |
| Mower          | Engine speed                           | Throttle must be set at full throttle.   |
| won't          | low.                                   | 14 - 1   |
| discharge      | Speed selection.                       | Use lower ground speed. The slower your ground speed, the better the quality of cut.                   |
| grass or       | Cutting height                         | Raise deck.  |
| leaves         | set too low.                           | Chausan au gaulaga bladag (yang) tatuk mgablam autu)   |
| uncut strips   | Blades dull.                           | Sharpen or replace blades (uncut strip problem only).  |

## Models 607, 608 & 609

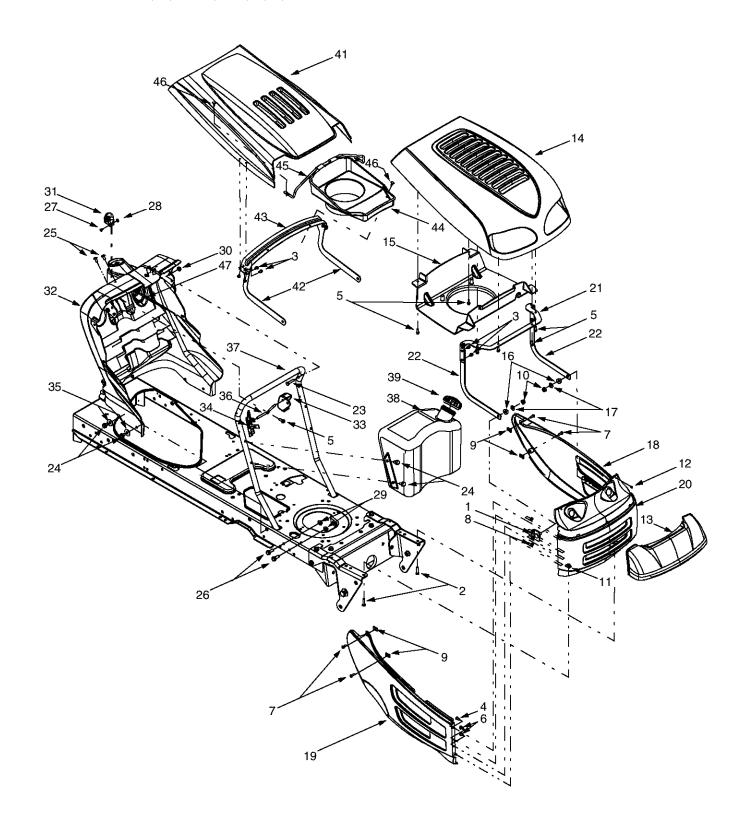


| REF. | PART      |  |
|------|-----------|--|
| NO.  | NO.       | DESCRIPTION                                |
| 1    | 625-0051  | Bulb/Socket Headlight Assembly             |
| 2    | 629-0944  | Wiring Harness w/o Ref. 14                 |
| 3    | 629-0126  | Harness Adapter, #18 x 5                   |
| 4    | 710-0599  | Self-tapping Screw, 1/4-20 x .5            |
| 5    | 712-3006  | Hex Nut, 1/4-20                            |
| 6    | 725-1426  | Solenoid, 12-volt, 100 Amp                 |
| 7    | 725-1657A | Snap Mount Safety Interlock Switch (Brake) |
| 8    | 725-1741  | Ignition Switch                            |
| 9    | 725-1742  | Systems Indicator Monitor                  |
| 10   | 725-1745  | Ignition Key w/ plastic cover              |
|      | 725-1744  | Ignition Key w/o plastic cover             |
| 11   | 725-1747  | Safety Plunger Switch (Seat)               |
| 12   | 725-3007A | Positive Terminal Cover (Boot)             |
| 13   | 736-0329  | Lock Washer, 1/4                           |
| 14   | 629-0309  | Headlight Harness                          |
| 15   | 729-0357  | Fuse Holder                                |
| 16   | 725-1381  | 20-amp Fuse                                |

### **Electrical System**



### Models 607 & 608

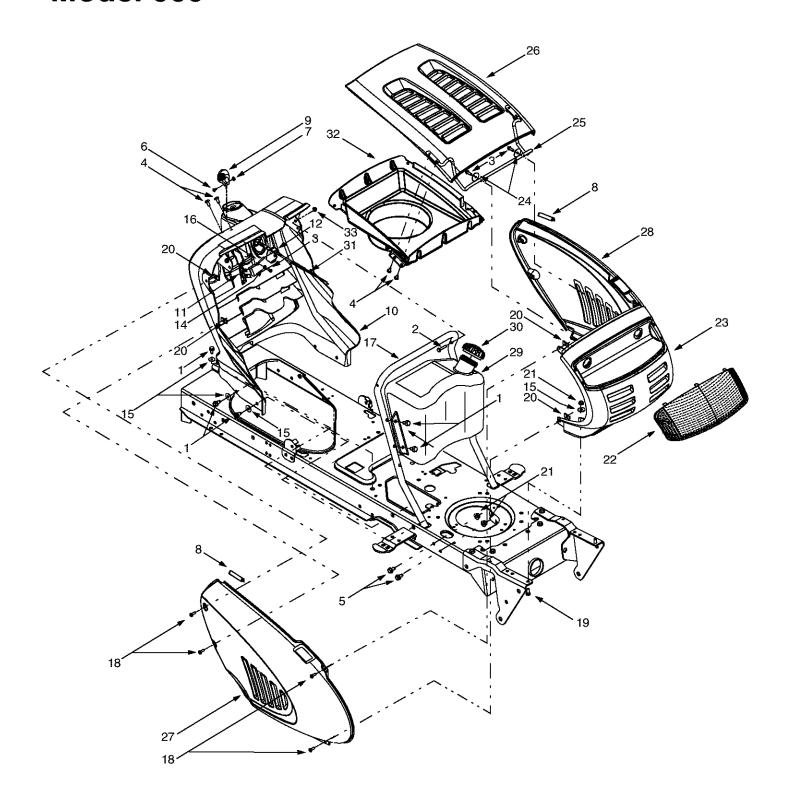


### **Tractor Body**

| REF. | PART      |                                     | REF. | PART        |                                     |
|------|-----------|-------------------------------------|------|-------------|-------------------------------------|
| NO.  | NO.       | DESCRIPTION                         | NO.  | NO.         | DESCRIPTION                         |
| 1    | 683-0195  | Bracket Assembly                    | 29   | 712-3004A   | Flange Lock Nut, 5/16-18            |
| 2    | 710-0528  | Hex Cap Screw, 5/16-18 x 1.25       | 30   | 712-3027    | Hex Flange Lock Nut, 1/4-20         |
| 3    | 710-0599  | Self-tapping Screw, 1/4-20 x .5     | 31   | 731-1857    | Throttle Control Knob               |
| 4    | 710-0751  | Hex Cap Screw, 1/4-20 x .62         | 32   | 731-2122    | Dash Panel                          |
| 5    | 710-0895  | Self-tapping Screw, 1/4-15 x .75    | 33   | 731-2227    | Parking Brake Button                |
| 6    | 710-0896  | Screw, 1/4-15 x .75                 | 34   | 731-2228    | Plastic Plug                        |
| 7    | 710-0924  | Phillips Pan Screw, 1/4-20 x .75    | 35   | 736-3078    | Flat Washer, .349 x 1.0 x .063      |
| 8    | 712-0271  | Hex Sems Nut, 1/4-20                | 36   | 747-1196    | Pivot Rod                           |
| 9    | 712-0292  | U-type Speed Nut, 1/4-20            | 37   | 749-1087    | Dash Support Tube                   |
| 10   | 712-0431  | Flange Lock Nut, 3/8-16             | 38   | 751-0659    | Two-gallon Fuel Tank (shown)        |
| 11   | 726-0211  | U-nut, 5/16-18                      |      | 751-0658    | Three-gallon Fuel Tank              |
| 12   | 726-0293  | Retainer Nut, 3/8                   | 39   | 751-0603    | Fuel Cap (Fits Either Tank)         |
| 13   | 731-1854  | Headlight Lens                      | 40   | 710-1268    | Screw, #10-16 x .375                |
| 14   | 731-2300  | Hood, 7-style, Red                  | 41   | 783-0478A   | Hood, 8-style                       |
|      | 731-2301  | Hood, 7-style, Green                | 42   | 783-0551A   | Hood Hinge Bracket, 8-style         |
|      | 731-2302  | Hood, 7-style, Black                | 43   | 783-0553A   | Hood Support Bracket, 8-style       |
|      | 731-2303  | Hood, 7-style, Charcoal Grey        | 44   | 731-2247    | Heat Shield‡                        |
| 15   | 731-2306  | Hood Plenum, 7-style                |      |             | (Units w/ B&S OHV Twin)             |
| 16   | 735-0126  | Rubber Washer, .87 x .33            |      | 731-2248    | Heat Shield‡                        |
| 17   | 736-0105  | Bell Washer, .401 x .87 x .063      |      |             | (Units w/ B&S Opposed Twin)         |
| 18   | 783-0475  | LH Side Panel                       | 45   | 747-1184    | Heat Shield Support Rod             |
| 19   | 783-0476A | RH Side Panel                       | 46   | 726-3046    | Ratchet Clip                        |
| 20   | 783-0477  | Grille                              | 47   | 746-1085    | Choke Cable/Knob †                  |
| 21   | 783-1034  | Hood Bracket, 7-style               |      |             | (Units w/ B&S Opposed Twin)         |
| 22   | 783-1038  | Hood Side Bracket, 7-style          | _    | OEM-190-603 | Grille Guard™ Bumper Kit, Not Shown |
| 23   | 710-0106  | Hex Cap Screw, 1/4-20 x 1.25        |      |             | (if so equipped)                    |
| 24   | 710-0604A | Self-tapping Screw, 5/16-18 x .625  |      | AF-47442    | Bumper Assembly                     |
| 25   | 710-1017  | Truss Phillips Screw, 1/4-20 x .625 |      | AF-44056    | Clevis Pin, .5 x 1                  |
| 26   | 710-1238  | Hex Washer Screw, 5/16-18 x .625    |      | AF-43055    | Internal Cotter Pin                 |
| 27   | 710-3217  | Truss Phillips Screw, #8-32 x .375  |      | AF-44742    | Plastic Plug                        |
| 28   | 712-0142  | Hex Nut, #8-32                      |      |             |                                     |

†Tractors with a B&S Single-cylinder (I/C or OHV) engine have NO choke knob/cable. The choke is activated with the throttle control. ‡Tractors with a B&S Single-cylinder (I/C or OHV) engine have NO heat shield.

### Model 609

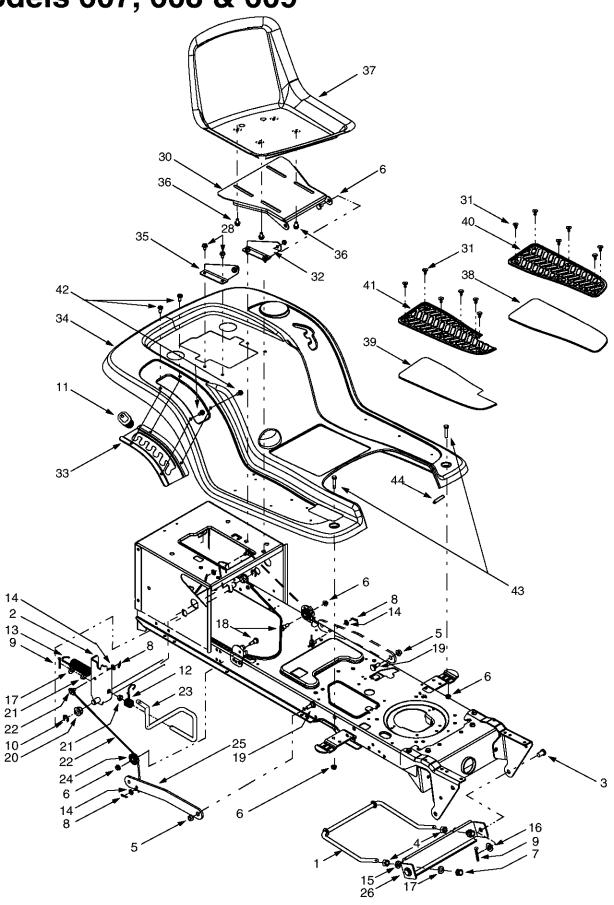


### **Tractor Body**

| REF. | PART       |  |  |
|------|------------|--|--|
| NO.  | NO.        | DESCRIPTION  |  |
| 1    | 710-0604A  | Self-tapping Screw, 5/16-18 x .625                               |  |
| 2    | 710-0788   | Self-tapping Screw, 1/4-20 x 1.0                                 |  |
| 3    | 710-0765   | Self-tapping Screw, 1/4-15 x .75                                 |  |
| 4    | 710-1017   | Torx Self-tapping Screw, 5/16-18 x .625                          |  |
| 5    | 710-1017   | Screw, 5/16-18 x .875 (Grade 5)                                  |  |
| 6    | 710-3217   | Torx Screw, #8-32 x .375   |  |
| 7    | 712-0142   | Hex Nut, 8-32  |  |
| 8    | 731-0511-5 | Five-inch Trim Strip   |  |
| 9    | 731-0311-3 | Throttle Control Lever   |  |
| 10   | 731-1037   | Dash Panel   |  |
| 11   | 731-2228   | Plastic Plug   |  |
| 12   | 731-2227   | Parking Brake Button   |  |
| 13   | 736-0119   | Lock Washer, 5/16  |  |
| 14   | 736-0142   | Flat Washer, .281 x .5 x .063                                    |  |
| 15   | 736-3078   | Flat Washer, .349 x 1.0 x .063                                   |  |
| 16   | 747-1196   | Pivot Rod  |  |
| 17   | 749-1087   | Dash Support Tube  |  |
| 18   | 710-0924   | 1  |  |
| 19   | 710-3924   | Pan Phillips Screw, 1/4-20 x .75<br>Hex Cap Screw, 5/16-18 x .75 |  |
| 20   | 712-0292   | U-type Speed Nut, 1/4-20   |  |
| 21   | 712-3004A  | Flange Lock Nut, 5/16-18   |  |
| 22   | 731-2118   | Lens, 9-style  |  |
| 23   | 731-2119   | Grille, 9-style  |  |
| 24   | 736-0211   | Flat Washer, .285 x 1.25 x .08                                   |  |
| 25   | 747-1162   | Hood Hinge Rod   |  |
| 26   | 783-0783   | Hood, 9-style  |  |
| 27   | 783-0784   | RH Side Pane, 9-style  |  |
| 28   | 783-0785   | LH Side Panel, 9-style   |  |
| 29   | 751-0659   | Two-gallon Fuel Tank (shown)                                     |  |
| 20   | 751-0658   | Three-gallon Fuel Tank   |  |
| 30   | 751-0603   | Fuel Cap (Fits Either Tank)                                      |  |
| 31   | 746-1085   | Choke Knob/Cable Assembly†                                       |  |
| "    | 7 - 1000   | (Units w/ B&S Opposed Twin or OHV Twin)                          |  |
| 32   | 731-2270   | Hood Plenum (Units w/ B&S OHV V-Twin)‡                           |  |
| "-   | 731-2271   | Hood Plenum (Units w/ B&S Opposed Twin)‡                         |  |
| 33   | 712-3027   | Hex Flange Lock Nut, 1/4-20                                      |  |

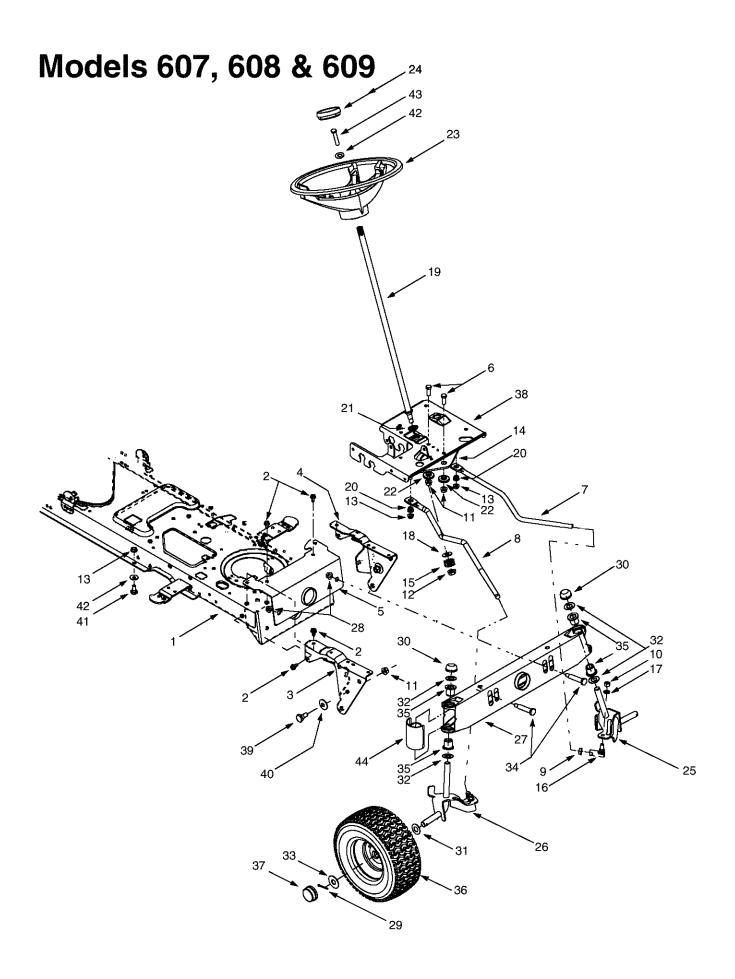
†Units with B&S Single-cylinder (I/C or OHV) engines have NO choke knob/cable. The choke is activated with the throttle control. ‡Units with B&S Single-cylinder (I/C or OHV) engines have NO hood plenum.

## Models 607, 608 & 609



### **Lift Assembly**

| REF. | PART       |   |
|------|------------|---|
| NO.  | NO.        | DESCRIPTION                                     |
| 1    | 747-1130   | Deck Stabilizer Rod                             |
| 2    | 683-0197   | Lift Shaft Assembly                             |
| 3    | 711-0332   | Clevis Pin, .5 x .78                            |
| 4    | 712-0206   | Hex Nut, 1/2-13                                 |
| 5    | 712-0431   | Flange Lock Nut, 3/8-16                         |
| 6    | 712-3004A  | Flange Lock Nut, 5/16-18                        |
| 7    | 712-3083   | Hex Nut, 1/2-13                                 |
| 8    | 714-0104   | Internal Cotter Pin                             |
| 9    | 714-0111   | Cotter Pin                                      |
| 10   | 716-0106   | E-ring  |
| 11   | 720-0311   | Handle Grip                                     |
| 12   | 732-0874   | Torsion Spring                                  |
| 13   | 732-0934   | Lift-assist Spring, 1.15 x 5.99                 |
| '    |            | (Found on Units w/ 46-inch Deck Only)           |
| 14   | 736-0275   | Flat Washer, 5/16                               |
| 15   | 736-0921   | Lock Washer, 1/2                                |
| 16   | 736-3019   | Flat Washer, .31 x 1.062 x .134                 |
| 17   | 736-3084   | Flat Washer, .51 x 1.12 x .06                   |
| 18   | 738-0138   | Hex Cap Screw, 5/16-18 x .62                    |
| 19   | 738-0380   | Shoulder Screw, .5 x .27, 3/8-16                |
| 20   | 741-0225   | Hex Flange Bearing                              |
| 21   | 741-0715   | Snap Flange Bearing                             |
| 22   | 746-0968   | Lift Cable, 16.16                               |
| 23   | 747-1111   | Lift Handle                                     |
| 24   | 756-1154   | Roller Pulley                                   |
| 25   | 783-0678   | Arm Lift  |
| 26   | 783-0720A  | Deck Stabilizer Bracket                         |
| 27   | 710-0260   | Carriage Bolt, 5/16-18 x .62                    |
| 28   | 710-0604A  | Self-tapping Screw, 5/16-18 x .625              |
| 29   | 710-0895   | Self-tapping Screw, 1/4-15 x .75                |
| 30   | 783-0740   | Seat Pivot Bracket                              |
| 31   | 726-3046   | Foot Pad Clips                                  |
| 32   | 738-0155   | Shoulder Screw, .437 x 1.62                     |
| 33   | 783-1010   | Lift Adjustment Bracket                         |
| 34   | 783-0839   | Fender  |
| 35   | 783-0715   | Seat Mounting Bracket                           |
| 36   | 710-0870   | Hex Washer Head Screw, 3/8-16 x .625            |
| 37   | 757-0360A  | Seat, Medium Back                               |
|      | 757-0348A  | Seat, High Back (if so equipped)                |
|      | 757-0350   | Seat, High Back w/ Drain Holes (if so equipped) |
| 38   | 723-0483   | LH Abrasive Foot Pad                            |
| 39   | 723-0484   | RH Abrasive Foot Pad                            |
| 40   | 735-0657   | LH Rubber Foot Pad (if so equipped)             |
| 41   | 735-0656   | RH Rubber Foot Pad (if so equipped)             |
| 42   | 710-1611   | Self-tapping Screw, 5/16-18 x .75               |
| 43   | 710-0260   | Hex Cap Screw, 5/16-18 x .62                    |
| 44   | 731-0511-5 | Trim Strip, 1.5                                 |

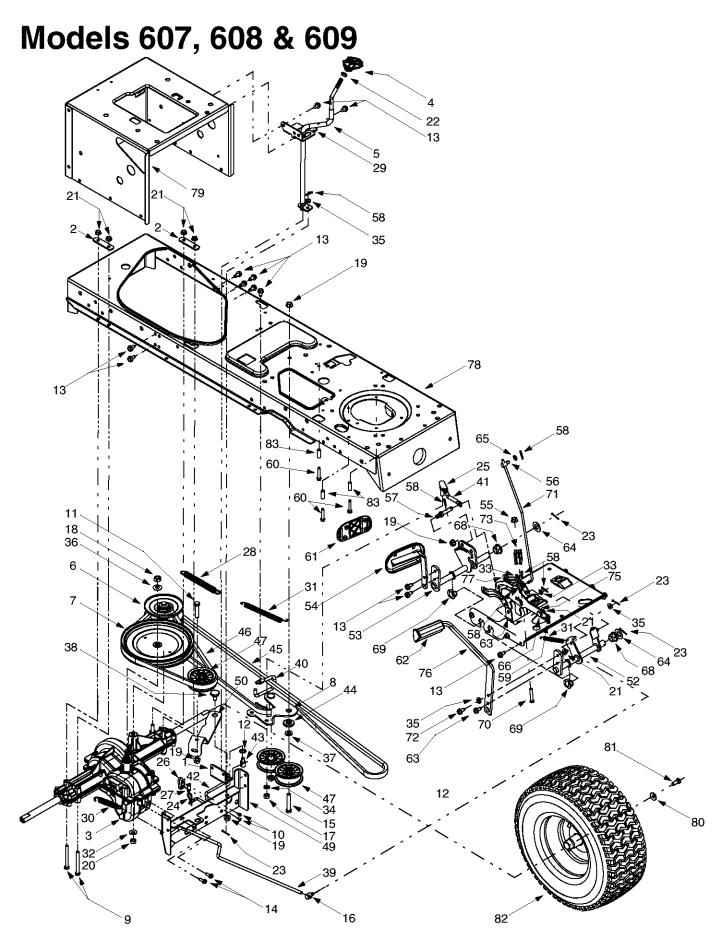


### **Steering Assembly**

| REF. | PART      |  | REF. | PART      |   |
|------|-----------|--|------|-----------|---|
| NO.  | NO.       | DESCRIPTION                            | NO.  | NO.       | DESCRIPTION                             |
| 1    | 683-0304  | Lower Frame Assembly                   | 28   | 712-0431  | Flange Lock Nut, 3/8-16                 |
| 2    | 710-0604A | Self-tapping Screw, 16-18 x .625       | 29   | 714-0470  | Cotter Pin                              |
| 3    | 783-0726A | RH Pivot Support Bracket               | 30   | 726-0214  | Push Cap, .625                          |
| 4    | 783-0727  | LH Pivot Support Bracket               |      | 726-0341  | Push Cap, .750                          |
| 5    | 783-0728  | Pivot Bar Bracket                      | 31   | 736-0162  | Flat Washer, .64 x 1.0 x .12            |
| 6    | 710-0514  | Hex Cap Screw, 3/8-16 x 1 (Grade 5)    | 32   | 736-0187  | Flat Washer, .64 x 1.24 x .06           |
| 7    | 711-1409A | LH Drag Link                           |      | 736-0316  | Flat Washer, .78 x 1.59 x .06           |
| 8    | 711-1408  | RH Drag Link                           | 33   | 736-0285  | Flat Washer, .635 x 1.589 x .06         |
| 9    | 712-0240  | Jam Nut, 7/16-20 (Grade 2)             | 34   | 738-1011  | Shoulder Screw, .5 x 2.2, 3/8-16        |
| 10   | 712-0241  | Hex Nut, 3/8-24 (Grade 2)              | 35   | 741-0659  | Flange Bearing, .632 ID x .937 OD       |
| 11   | 712-0431  | Flange Lock Nut, 3/8-16                |      | 741-0660  | Flange Bearing, .760 ID x .937 OD       |
| 12   | 712-0459  | Flange Lock Nut, 7/16-20               | 36   | 634-0105A | Wheel Assembly Complete,                |
| 13   | 712-3004A | Flange Lock Nut, 5/16-18               |      |           | 15 x 6 x 6 Square Shoulder              |
| 14   | 717-1550A | Steering Gear, 11/90 Ratio             |      | 634-0056A | Wheel Assembly Complete,                |
| 15   | 717-1554  | Steering Pinion Gear                   |      |           | 15 x 6 x 6 Round Shoulder               |
| 16   | 723-0448A | Ball Joint, 7/16-20                    |      | 634-0172  | Rim Only                                |
| 17   | 736-0169  | Lock Washer, 3/8                       |      | 734-0255  | Air Valve (Not Shown)                   |
| 18   | 736-3084  | Flat Washer, .51 x 1.12 x .06          |      | 734-1731  | Tire Only, Square Shoulder              |
| 19   | 738-1001A | Steering Shaft, .625 OD x 24.4         |      | 734-0864  | Tire Only, Round Shoulder               |
| 20   | 741-0475  | Plastic Bushing, .38 ID                |      | 741-0487A | Plastic Flange (Not Shown)              |
| 21   | 741-0656  | Hex Flange Bearing, 5/8                |      | 741-0706  | Plastic Flange w/ Fitting (Not Shown)   |
| 22   | 738-0372  | Shoulder Spacer, .38 ID                | 37   | 734-0484A | Hub Cap                                 |
| 23   | 631-0027  | Steering Wheel                         | 38   | 783-0653C | Steering Support Bracket                |
|      | 731-1687  | Steering Wheel (MTD)                   | 39   | 738-0143  | Shoulder Screw, 3/8-16                  |
| 24   | 731-0220  | Steering Wheel Cap                     | 40   | 736-0331  | Bell Washer, .39 x 1.13 x .062          |
|      | 731-1459A | Steering Wheel Cap w/ Icon             | 41   | 738-0140  | Shoulder Screw, .435 x .178, 5/16 x .56 |
| 25   | 638-0019  | LH Axle Assembly, .625 Diameter        | 42   | 736-0242  | Bell Washer, .34 x .872                 |
|      | 638-0021  | LH Axle Assembly, .625 / .750 Diameter | 43   | 710-0643  | Hex Bolt, 5/16-18 X 1                   |
| 26   | 638-0020  | RH Axle Assembly, .625 Diameter        | 44   | 731-1649  | End Cap                                 |
|      | 638-0022  | RH Axle Assembly, .625 / .750 Diameter |      | 731-1291A | End Cap w/ Fitting (if so equipped)     |
| 27   | 683-0128A | Pivot Bar                              |      |           |   |

**NOTE:** Units equipped with a 42-inch deck have axles with a .625 diameter.

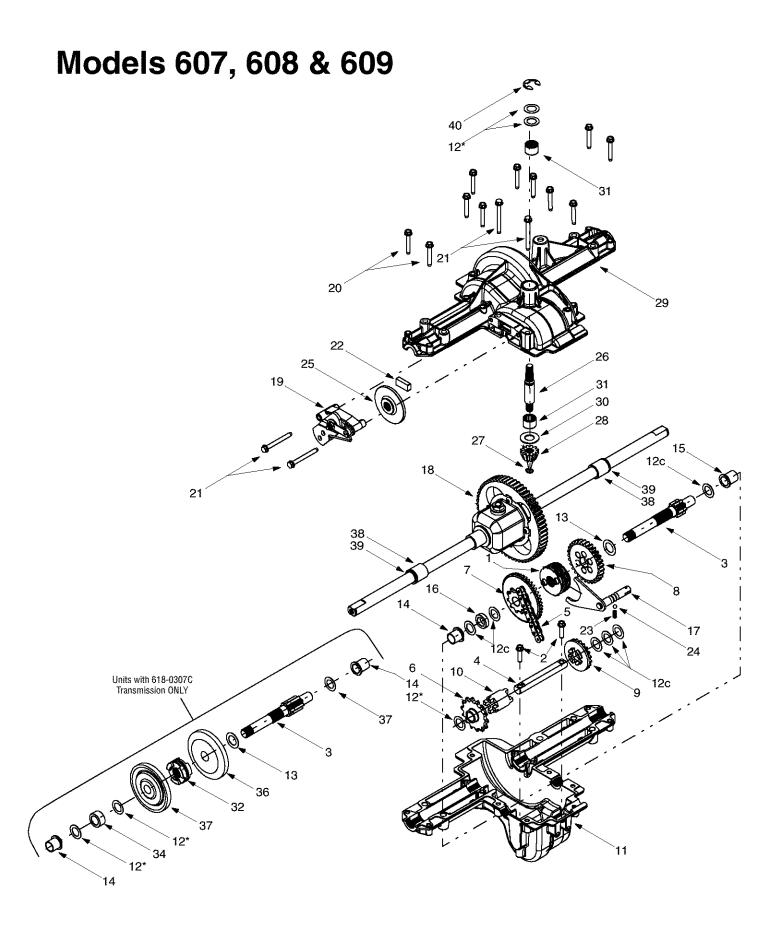
Units equipped with a 46-inch deck have axles with a .625 / .750 diameter.



### **Drive System**

| DEE    | DADT                  |   | DEE      | DART                 |   |
|--------|-----------------------|---|----------|----------------------|---|
| REF.   | PART<br>NO.           | DESCRIPTION   | REF.     | PART<br>NO.          | DESCRIPTION                                     |
| 1      | 783-1015              | Shift Lever Support   | 47       | 756-0981             | Flat Idler, 2.75 OD                             |
| 2      | 17840                 | Transaxle Mounting Bracket                                      | 48       | 783-0637             | Shift Lever Support                             |
| 3      | 618-0307C             | Single-speed Transmission Assembly                              |          | 783-0667A            | Transmission Torque Bracket                     |
| 4      | 631-0009              | Shifter Knob  | 49<br>50 | 783-0669             | Idler Bracket                                   |
|        | 647-0045              | Shift Lever   | 51       | 783-0009             |   |
| 5      | 656-0048              |   | 52       | 647-0031             | Adjustable Shift Bracket Brake Control Assembly |
| 6<br>7 |                       | Variable-speed Pulley Assembly Transmission Pulley, 8.5 x .5-36 | 53       |                      | Speed Control Assembly                          |
| 1      | 656-0051A<br>683-0251 | Double-idler Bracket  | 54       | 647-0032             | ·   |
| 8      |                       |   | 55       | 683-0266             | Drive Pedal Assembly                            |
| 9      | 710-0176<br>710-0227  | Hex Cap Screw, 5/16-18 x 2.75                                   | 56       | 712-0431<br>711-0736 | Flange Lock Nut, 3/8-16                         |
| 10     |                       | Self-tapping Screw, #8-18 x .5                                  |          | 1                    | Ferrule, 1/4-20                                 |
| 11     | 710-0347              | Hex Cap Screw, 3/8-16 x 1.75                                    | 57       | 711-1363             | Pin, 3/8-16 x 2.43                              |
| 12     | 736-0272              | Flat Washer, .51 x 1.0 x .060                                   | 58       | 714-0104             | Cotter Pin                                      |
| 13     | 710-0604A             | Self-tapping Screw, 5/16-18 x .625                              | 59       | 732-0437             | Compression Spring, .34 OD x 1.0                |
| 14     | 710-0642              | Self-tapping Screw, 1/4-20 x .75                                | 60       | 710-0778             | Self-tapping Screw, 1/4-20 x 1.5                |
| 15     | 710-3011              | Hex Cap Screw, 3/8-16 x 2.25                                    | 61       | 735-0662             | Drive Pedal Pad                                 |
| 16     | 711-0677              | Ferrule, 5/16-18  | 62       | 735-3049             | Brake Pedal Pad                                 |
| 17     | 712-0241              | Hex Nut, 3/8-24   | 63       | 710-1650             | Self-tapping Screw, 5/16-18 x .875              |
| 18     | 712-0378              | Hex Nut, 7/16-20  | 64       | 736-0187             | Flat Washer, .64 x 1.24 x .06                   |
| 19     | 712-0431              | Flange Lock Nut, 3/8-16   | 65       | 736-0204             | Flat Washer, .344 x .062 x .03                  |
| 20     | 712-0798              | Hex Nut, 3/8-16   | 66       | 738-0155             | Shoulder Screw, .437 x 1.62                     |
| 21     | 712-3004A             | Flange Lock Nut, 5/16-18  | 67       | 738-0507B            | Shoulder Screw, .5 x .434                       |
| 22     | 712-3008              | Jam Nut, 3/8-16   | 68       | 741-0225             | Hex Flange Bearing                              |
| 23     | 714-0111              | Cotter Pin  | 69       | 741-3065A            | Split Hex Flange Bearing                        |
| 24     | 714-0149B             | Internal Cotter Pin   | 70       | 710-0859             | Hex Cap Screw, 3/8-16 x 2.5                     |
| 25     | 723-3018              | Ball Joint  | 71       | 747-1138             | Brake Lock Control Rod                          |
| 26     | 725-1644              | Short Spring Switch   | 72       | 710-1260A            | Self-tapping Screw, 5/16-18 x .75               |
| 27     | 726-0320              | Insulator Nut Plate   | 73       | 748-0415A            | Spacer, 5/16 x 1.54                             |
| 28     | 732-0384              | Extension Spring, .62 Dia. x 6.12                               | 74       | 783-0653C            | Stearing Support Bracket                        |
| 29     | 732-0525              | Compression Spring Clip   | 75       | 783-0732             | Drive Lockout Bracket                           |
| 30     | 732-0716              | Extension Spring, .59 OD x 4                                    | 76       | 783-0773             | Brake Pedal                                     |
| 31     | 732-0963              | Extension Spring, .50 Dia. x 6.37                               | 77       | 783-0780A            | Neutral Return Bracket                          |
|        |                       | (hooks to flange, 783-0650, in frame)                           | 78       | 683-0304             | Lower Frame Assembly                            |
| 32     | 736-0105              | Bell Washer, .401 x .87 x .063                                  | 79       | 783-1031             | Hitch Plate                                     |
| 33     | 736-0140              | Flat Washer, .385 x .62 x .063                                  | 80       | 736-0242             | Bell Washer, .34 x .872                         |
| 34     | 736-0169              | Lock Washer, 3/8  | 81       | 710-0627             | Hex Cap Screw, 5/16-24 x .75                    |
| 35     | 736-0275              | Flat Washer, 5/16   | 82       | 634-0177             | Wheel Assembly Complete                         |
| 36     | 736-0407              | Bell Washer, .45 x 1.0 x .602                                   |          |                      | 20 x 10 x 8 Square Shoulder                     |
| 37     | 736-3010              | Flat Washer, .407 x .812 x .135                                 |          | 634-0104             | Wheel Assembly Complete                         |
| 38     | 738-0322              | Shoulder Screw, .625 x .217                                     |          |                      | 20 x 8 x 8 Square Shoulder                      |
| 39     | 747-1122              | Brake Rod   |          | 734-1675             | Wheel Assembly Complete                         |
| 40     | 747-1123A             | Belt Guard  |          |                      | 20 x 8 x 8 Round Shoulder                       |
| 41     | 747-1127              | Idler Adjustment Rod, 3/8                                       |          | 634-0070             | Rim Only  |
| 42     | 747-1156              | Shift Rod   |          | 734-0255             | Air Valve (Not Shown)                           |
| 43     | 711-0736              | Adjustment Ferrule, 1/4-20 x 1.0                                |          | 734-1873             | Tire Only, 20 x 10 x 8, Square Shoulder         |
| 44     | 748-0372              | Shoulder Spacer, .38 ID   |          | 734-1730             | Tire Only, 20 x 8 x 8, Square Shoulder          |
| 45     | 754-0467              | Variable-speed Belt   |          | 734-1596             | Tire Only, 20 x 8 x 8, Round Shoulder           |
| 46     | 754-0468              | Drive Belt  | 83       | 750-0556             | Spacer  |

**IMPORTANT:** The V-belts found on your tractor are specially designed to engage and disengage safely. A substitute (non-OEM) V-belt can be dangerous by not disengaging completely. For a proper working machine, use factory approved belts.



### **Single-speed Transmission**

| REF.     | PART                 | т                                  |  |  |  |
|----------|----------------------|------------------------------------|--|--|--|
| NO.      | NO.                  | DESCRIPTION                        |  |  |  |
| 1        | 618-0318             | Clutch Collar†                     |  |  |  |
| 2        | 710-0788             | Self-tapping Screw, 1/4-20 x 1.0   |  |  |  |
| 3        | 711-1274             | Drive Shaft                        |  |  |  |
| 4        | 711-1280             | Counter Shaft                      |  |  |  |
| 5        | 713-0474             | 22-link Chain, #420                |  |  |  |
| 6        | 713-0478             | 14-tooth Sprocket                  |  |  |  |
| 7        | 717-1422             | Sprocket Bevel Gear, 42/10         |  |  |  |
| 8        | 717-1565             | 29-tooth Spur Gear                 |  |  |  |
| 9        | 717-1569             | 20-tooth Spur Gear                 |  |  |  |
| 10       | 718-0652             | Counter Shaft Coupling             |  |  |  |
| 11       | 719-0394             | Lower Housing                      |  |  |  |
| 12a      | 736-0336             | Flat Washer, 5/8 x 1.0 x .030*     |  |  |  |
| 12b      | 736-0337             | Flat Washer, 5/8 x 1.0 x .040*     |  |  |  |
| 12c      | 736-0349             | Flat Washer, 5/8 x 1.0 x .020*     |  |  |  |
| 13       | 736-0519             | Flat Washer, .70 x 1.125 x .031    |  |  |  |
| 14       | 741-0336             | Flange Bearing, 5/8 x 3/4 x 3/4    |  |  |  |
| 15       | 741-0337             | Flange Bearing, 5/8 x 3/4 x 15/16  |  |  |  |
| 16       | 750-1238             | Spacer, .635 x 1.0 x .27           |  |  |  |
| 17       | 611-0112             | Detent Shaft Assembly†             |  |  |  |
|          | 611-0133             | Detent Shaft Assembly‡             |  |  |  |
| 18       | 618-0369             | Differential Assembly†             |  |  |  |
|          | 618-0424             | Differential Assembly‡             |  |  |  |
| 19       | 661-0006             | Brake Assembly                     |  |  |  |
| 20       | 710-1325             | Self-tapping Screw, 1/4-20 x 1.625 |  |  |  |
| 21       | 710-1206             | Self-tapping Screw, 1/4-20 x 2.375 |  |  |  |
| 22       | 717-0678             | Brake Pad                          |  |  |  |
| 23       | 732-0863             | Compression Spring                 |  |  |  |
| 24       | 741-0862             | Detent Ball                        |  |  |  |
| 25       | 761-0202             | Brake Disc                         |  |  |  |
| 26       | 711-1331             | Input Shaft†                       |  |  |  |
|          | 711-1430             | Input Shaft‡                       |  |  |  |
| 27       | 716-0385             | Retaining Ring, .394†              |  |  |  |
|          | 716-0108             | Retaining Ring, .437‡              |  |  |  |
| 28       | 717-1571             | 12-tooth Bevel Pinion†             |  |  |  |
| 00       | 717-1464             | 14-tooth Bevel Pinion‡             |  |  |  |
| 29       | 719-0391A            | Upper Housing                      |  |  |  |
| 30       | 736-0335             | Thrust Washer, .63 x 1.24 x .062†  |  |  |  |
| 24       | 736-0723             | Thrust Washer, .635 x 1.25 x .042‡ |  |  |  |
| 31       | 741-0525             | Needle Bearing, .625 x .875        |  |  |  |
| 32       | 718-0228<br>711-1431 | Clutch Collar‡<br>Drive Shaft‡     |  |  |  |
| 33<br>34 | 750-1234             | Spacer, .633 x 1.0 x .513          |  |  |  |
| 35       |                      | 42-tooth Bevel Gear‡               |  |  |  |
| 36       | 717-1362<br>717-1363 | 42-tooth Bevel Gear‡               |  |  |  |
| 37       | 736-0495             | Thrust Washer, 1.0 x .632 x .0     |  |  |  |
| 38       | 741-0340             | Sleeve Bearing, .75 x .1.0 x 1.0   |  |  |  |
| 39       | 721-0338             | Seal, .75 x 1.0 x .125             |  |  |  |
| 40       |                      | E-ring, .75                        |  |  |  |
| 40       | 716-0231             | E-HIY, ./5                         |  |  |  |

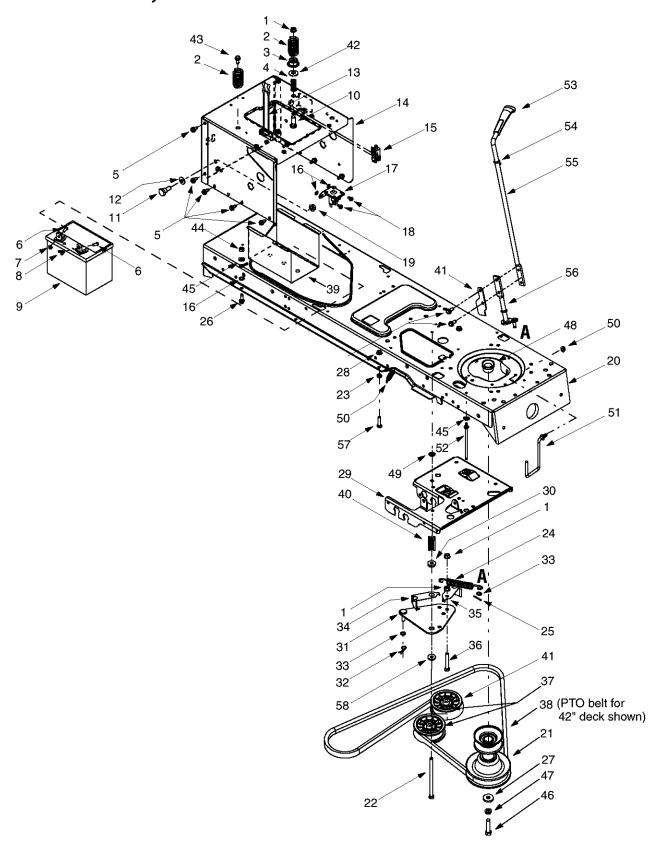
<sup>\*</sup>If rebuilding transmission for any reason, use applicable flat washer (12a, 12b, or 12c) in this application allowing proper end play as instructed in MTD 's Service Manual.

**IMPORTANT:** One of two different transmissions may be found on your lawn tractor (618-0307B & 618-0307C). Refer to the model plate found on the rear right portion of the transmission's lower housing before ordering replacement service parts.

†Used on Single-speed transmission 618-0307B ONLY.

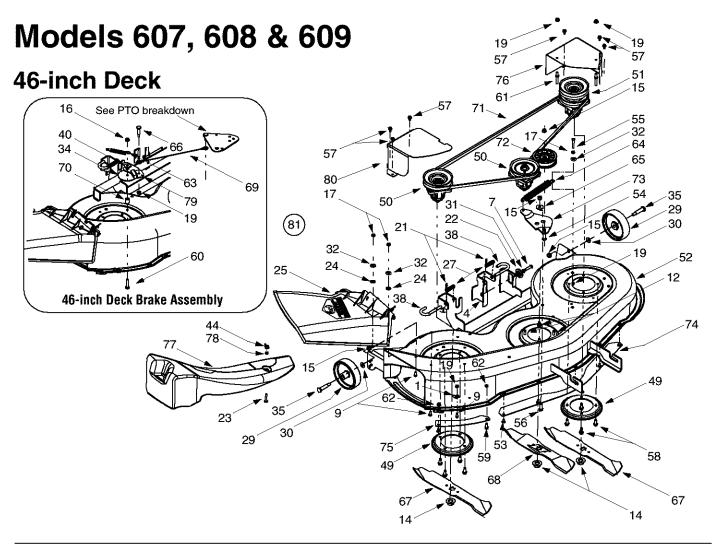
‡Used on Single-speed transmission 618-0307C ONLY.

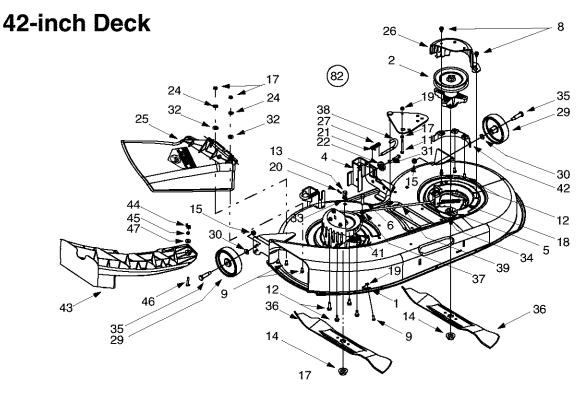
### Models 607, 608 & 609



## **Power Take-off System**

| REF. | PART      |                                    | REF. | PART      | I                                      |
|------|-----------|------------------------------------|------|-----------|--|
| NO.  | NO.       | DESCRIPTION                        | NO.  | NO.       | DESCRIPTION                            |
| 1    | 712-0431  | Flange Lock Nut, 3/8-16            | 31   | 683-0302  | PTO Engagement Plate                   |
| 2    | 732-0735  | Compression Spring, 1.318 x 2.37   | 32   | 714-0145  | Internal Cotter Pin                    |
| 3    | 783-0733  | Spacer Cup, 1.5 OD                 | 33   | 736-0140  | Flat Washer, .385 x .62 x .063         |
| 4    | 732-0956  | Compression Spring, .66 OD x 1.5   | 34   | 732-0991  | Belt Guard                             |
| 5    | 710-0604A | Self-tapping Screw, 5/16-18 x .625 | 35   | 732-0990  | Belt Guard                             |
| 6    | 710-0751  | Hex Cap Screw, 1/4-20 x .62        | 36   | 710-3011  | Hex Cap Screw, 3/8-16 x 2.25 (Grade 5) |
| 7    | 712-0271  | Hex Sems Nut, 1/4-20               | 37   | 756-0627  | Flat Idler Pulley, 3.5 OD              |
| 8    | 712-3044  | Wing Nut, 1/4-20                   | 38   | 754-0485  | PTO Belt (42-inch Decks)               |
| 9    | 725-1706  | 12-volt Battery, 270 CCA           |      | 754-0486  | PTO Belt (46-inch Decks)               |
| 10   | 738-1014  | Shoulder Screw, .5 x 1.25, 3/8-16  | 39   | 783-0349  | Battery Tray                           |
| 11   | 738-1020  | Shoulder Screw, .625 x .5, 7/16-20 | 40   | 748-0415A | Spacer, 3/8 x 1.54                     |
| 12   | 736-0407  | Bell Washer, .45 x 1.0 x .062      | 41   | 783-0744A | Engagement Stop Bracket                |
| 13   | 723-0444  | Battery Strap                      | 42   | 736-0105  | Bell Washer, .401 x .870 x .063        |
| 14   | 783-1031  | Hitch Plate                        | 43   | 710-1650  | Self-tapping Screw, 5/16-18 x .875     |
| 15   | 725-1747  | Safety Interlock Plunger Switch    | 44   | 712-3006  | Hex Nut, 1/4-20                        |
| 16   | 736-0222  | Lock Washer, 1/4                   | 45   | 736-0119  | Lock Washer, 5/16                      |
| 17   | 725-1426  | Solenoid, 12-Volt, 100 Amp         | 46   | 710-3029  | Hex Cap Screw, 7/16-20 x 1.25          |
| 18   | 710-0599  | Self-tapping Screw, 1/4-20 x .5    | 47   | 736-0171  | Lock Washer, 7/16                      |
| 19   | 712-0459  | Flange Lock Nut, 7/16-20           | 48   | 750-0956  | Spacer                                 |
| 20   | 683-0304  | Lower Frame Assembly               | 49   | 712-0229  | Push Nut, 3/8                          |
| 21   | 756-0982A | Engine Pulley                      | 50   | 732-0995  | Extension Spring, .5 x 6.0             |
| 22   | 710-0615A | Hex Cap Screw, 3/8-16 x 5.0        | 51   | 647-0053  | Belt Guard Assembly                    |
| 23   | 712-3010  | Hex Nut, 5/16-18                   | 52   | 711-1004  | Keeper Pin                             |
| 24   | 732-0994  | Extension Spring, .75 x 5.39       | 53   | 731-2111A | PTO Knob                               |
| 25   | 714-0111  | Cotter Pin, 3/32 x 1.0             | 54   | 736-0108  | Flat Washer, .510 x .750 x .033        |
| 26   | 710-0642  | Self-tapping Screw, 1/4-20 x .750  | 55   | 747-1112A | PTO Handle                             |
| 27   | 736-0322  | Flat Washer, .45 x 1.25 x .164     | 56   | 647-0046  | PTO Lever                              |
| 28   | 712-3004A | Flange Lock Nut, 5/16-18           | 57   | 710-0528  | Hex Cap Screw, 5/16-18 x 1.25          |
| 29   | 783-0653C | Steering Support Bracket           | 58   | 736-0267  | Flat Washer, 3/8 x .87 x .06           |
| 30   | 738-0372  | Shoulder Spacer                    | 59   |           |  |

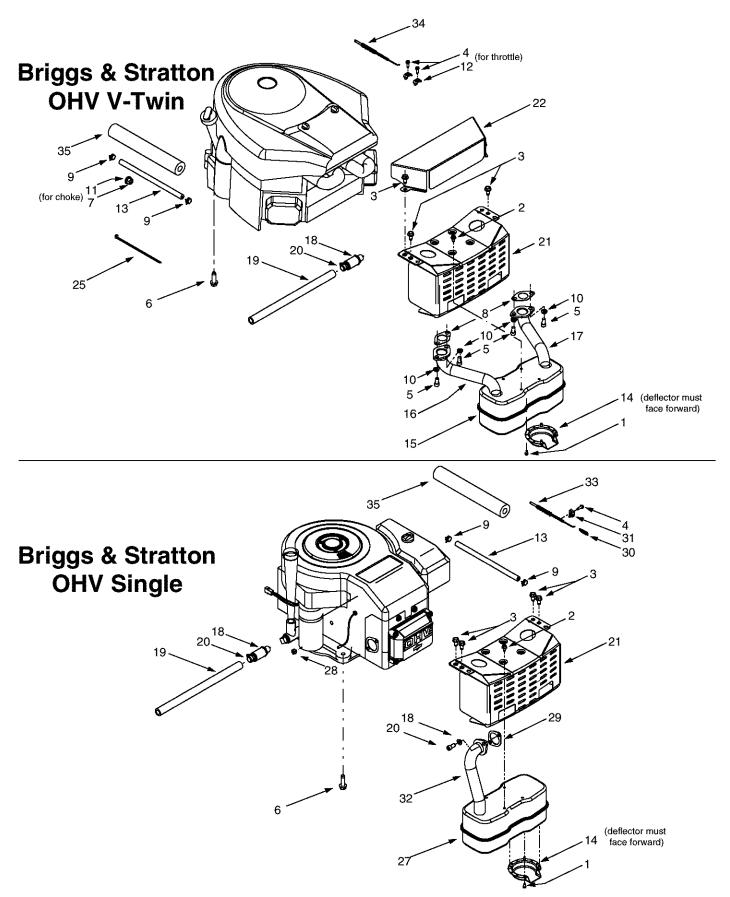




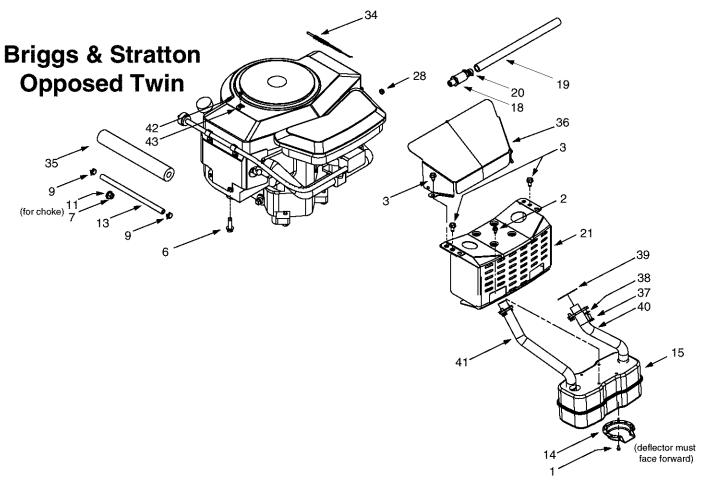
## **Cutting Decks**

| REF. | PART      | T                                       | REF. | PART      | I                                       |
|------|-----------|---|------|-----------|---|
| NO.  | NO.       | DESCRIPTION                             | NO.  | NO.       | DESCRIPTION                             |
| 1    | 16606     | Retainer Hook                           | 44   | 712-3087  | Wing Nut, 1/4-20 (if so equipped)       |
| 2    | 618-0324  | Spindle Assembly, 5.75 Dia.             | 45   | 712-3006  | Hex Nut, 1/4-20 (if so equipped)        |
| 3    | 683-0198C | 42-inch Deck Shell                      | 46   | 710-0597  | Hex Cap Screw, 1/4-20 x 1.0             |
| 4    | 683-0254  | Deck Adjustment Bracket w/ Weld Nut     | ~~   | , 10 000, | (if so equipped)                        |
| 5    | 683-0303  | Deck Brake Assembly, 42-inch Decks      | 47   | 736-0173  | Flat Washer, .28 x .74 x .063           |
| 6    | 710-0520  | Hex Cap Screw, 3/8-16 x 1.5             | 48   | 17258A    | RH Belt Cover Bracket                   |
| 7    | 710-0528  | Hex Cap Screw, 5/16-18 x 1.25           | 49   | 17928     | Reinforcement Spindle Plate             |
| 8    | 710-0604A | Self-tapping Screw, 5/16-18 x .625      | 50   | 618-0240  | Spindle Assembly, 5.0 Dia.              |
| 9    | 710-0751  | Hex Cap Screw, 1/4-20 x .62             | 51   | 618-0241  | Double Pulley Spindle Assembly          |
| 10   | 710-0817  | Self-tapping Screw, 5/16-18 x 1.25      | 52   | 683-0265C | 46-inch Deck Shell                      |
| 11   | 710-1122  | Hex Cap Screw, 1/4-20 x 2.5             | 53   | 710-0167  | Carriage Screw, 1/4-20 x .50            |
| 12   | 710-1260A | Self-tapping Screw, 5/16-18 x .75       | 54   | 710-0347  | Hex Cap Screw, 3/8-16 x 1.75            |
| 13   | 711-0677  | Ferrule, 5/16-18                        | 55   | 710-0501  | Hex Cap Screw, 1/4-20 x 2.0             |
| 14   | 712-0417A | Hex Flange Nut, 5/8-18                  | 56   | 710-0514  | Hex Cap Screw, 3/8-16 x 1.0             |
| 15   | 712-0431  | Flange Lock Nut, 3/8-16                 | 57   | 710-0599  | Self-tapping Screw,1/4-20 x .5          |
| 16   | 712-3004A | Flange Lock Nut, 5/16-18                | 58   | 710-0650  | Self-tapping Screw,15/16-18 x .875      |
| 17   | 712-3006  | Hex Nut, 1/4-20                         | 59   | 710-0703  | Hex Screw, 1/4-20 x .75                 |
| 18   | 712-3009  | Hex Lock Nut, 5/16-18                   | 60   | 710-0805  | Hex Cap Screw, 5/16-18 x 1.5            |
| 19   | 712-3027  | Hex Flange Lock Nut, 1/4-20             | 61   | 711-0993  | Belt Keeper Pin                         |
| 20   | 714-0104  | Internal Cotter Pin, .072 x 1.12        | 62   | 712-0271  | Hex Sems Nut, 1/4-20                    |
| 21   | 714-0111  | Cotter Pin, 3/32 x 1.0                  | 63   | 732-0429A | Extension Spring, .5 x 3.97             |
| 22   | 717-1553A | Deck Adjustment Gear                    | 64   | 732-0594A | Extension Spring, .91 x 7.33            |
| 23   | 710-0578  | Screw, 1/4-20 x 1.5                     | 65   | 738-0347  | Shoulder Spacer, .625 x 1.16            |
| 24   | 726-0233  | Push Nut25 x .5                         | 66   | 738-0572  | Shoulder Screw, .374 x 1.16             |
| 25   | 731-1032B | Side Discharge Chute Assembly           | 67   | 742-0611  | Three-in-one Blade, Star Center, 16.28" |
| 26   | 731-2231A | Belt Cover                              | 68   | 742-0612  | Three-in-one Blade, Star Center, 14.88" |
| 27   | 732-0306  | Compression Spring, .406 x .531 x 1.75  | 69   | 746-1107  | Bracket Cable, 12"                      |
| 28   | 732-0428A | Compression Spring, .50 x 4.35          | 70   | 750-0807  | Spacer, .385 x .625 x .70               |
| 29   | 734-0973  | Deck Wheel, 5 x 1.38                    | 71   | 754-0349  | Deck Belt                               |
| 30   | 736-0105  | Bell Washer, .401 x .87 x .063          | 72   | 756-0627  | Flat Idler Pulley, 3.5 OD               |
| 31   | 736-0119  | Lock Washer, 5/16                       | 73   | 783-0139  | Idler Bracket                           |
| 32   | 736-0270  | Bell Washer, .265 x .75 x .062          | 74   | 783-0141  | Center Deck Skirt                       |
| 33   | 736-0275  | Flat Washer, .344 x .688 x .065         | 75   | 783-0142  | RH Deck Skirt                           |
| 34   | 736-0416  | Flat Washer, .320 x 3.0 x .125          | 76   | 783-0747  | LH Belt Cover                           |
| 35   | 738-0373  | Shoulder Screw, .498 x 1.53             | 77   | 731-1636  | Mulch Plug, 46-inch Decks               |
| 36   | 742-0616  | Three-in-one Blade, Star Center, 21.23" |      |           | (if so equipped)                        |
| 37   | 746-0970  | Bracket Cable, 5.35"                    | 78   | 712-0291  | Hex Lock Nut, 1/4-20 (if so equipped)   |
| 38   | 747-1116  | Deck Release Pin                        | 79   | 17116     | Deck Brake Assembly, 46-inch Decks      |
| 39   | 747-1202  | Deck Brake Rod                          | 80   | 783-0805A | RH Belt Cover                           |
| 40   | 748-0324  | Shoulder Spacer                         | 81   | 753-0872  | 46-inch Deck Assembly Complete          |
| 41   | 783-1026  | RH Belt Guard Bracket                   |      |           | (Manual PTO activated, w/o mulch kit)   |
| 42   | 783-1027  | LH Belt Guard Bracket                   | 82   | 753-0871  | 42-inch Deck Assembly Complete          |
| 43   | 731-1643A | Mulch Plug, 42-inch Decks               |      |           | (Manual PTO activated, w/o mulch kit)   |
|      | 1         | (if so equipped)                        |      |           |   |

### Models 607, 608 & 609



### **Engine Accessories**



| REF. | PART       |                                    | REF. | PART       |   |
|------|------------|------------------------------------|------|------------|---|
| NO.  | NO.        | DESCRIPTION                        | NO.  | NO.        | DESCRIPTION                                 |
| 1    | 710-0148   | Self-tapping Screw, #8-32 x .375   | 23   | 710-3206A  | Hex Cap Screw, M8-1.25 x 25                 |
| 2    | 710-0599   | Self-tapping Screw, 1/4-20 x .5    | 24   | 712-3086   | Flange Nut, M8-1.25                         |
| 3    | 710-0604A  | Self-tapping Screw, 5/16-18 x .625 | 25   | 725-0157   | Cable Tie                                   |
| 4    | 710-1237   | Screw, #10-32 x .625               | 26   | 736-0607   | External Lock Washer, 5/16                  |
| 5    | 710-1314   | Socket Cap Screw, 5/16-18 x .625   | 27   | 751-0617   | Muffler, Single Inlet                       |
| 6    | 710-1315   | Self-tapping Screw, 3/8-16 x 1.25  | 28   | 712-0271   | Hex Sems Nut, 1/4-20 (for starter cable)    |
| 7    | 712-3017   | Hex Nut, 3/8-16                    | 29   | 721-0208   | Exhaust Gasket (OHV Single)                 |
| 8    | 721-0460   | Exhaust Gasket (OHV V-Twin)        | 30   | 732-0966   | Extension Spring, .275 x 1.25               |
| 9    | 726-0205   | Hose Clamp                         | 31   | 751B213146 | Casing Clamp                                |
| 10   | 736-0119   | Lock Washer, 5/16                  | 32   | 751-0619   | Exhaust Pipe (OHV Single)                   |
| 11   | 736-0300   | Lock Washer, .406 x .875 x .059    | 33   | 746-1084   | Throttle/Choke Cable (OHV Single)           |
| 12   | 751B221535 | Casing Clamp                       | 34   | 746-1086   | Throttle Cable                              |
| 13   | 751-0535   | Fuel Line Hose                     |      |            | (OHV V-Twin & Opposed Twin)                 |
| 14   | 751-0564   | Muffler Deflector                  | 35   | 722-0263   | Foam, .625 x 1.5 x 10 (fits over fuel line) |
| 15   | 751-0616   | Muffler, Twin Inlet                | 36   | 783-0357A  | Heat Shield (Opposed Twin)                  |
| 16   | 751-0650   | RH Exhaust Pipe (OHV V-Twin)       | 37   | 710-0751   | Hex Cap Screw, 1/4-20 x .620 (Grade 5)      |
| 17   | 751-0651   | LH Exhaust Pipe (OHV V-Twin)       | 38   | 736-0329   | Lock Washer, 1/4                            |
| 18   | 751-3140   | Oil Drain Valve                    | 39   | 721-0346   | Exhaust Gasket (Opposed Twin)               |
| 19   | 751-3141   | Oil Drain Hose                     | 40   | 751-0623   | LH Exhaust Pipe (Opposed Twin)              |
| 20   | 751-3142   | Oil Drain Cap                      | 41   | 751-0624   | RH Exhaust Pipe (Opposed Twin)              |
| 21   | 783-0615   | Muffler Heat Shield                | 42   | 712-0779A  | Screw, #10-16 x .5                          |
| 22   | 783-0625B  | Engine Heat Shield                 | 43   | 726-0272   | Clamp, 9/16                                 |

#### MANUFACTURER'S LIMITED WARRANTY FOR:



The limited warranty set forth below is given by MTD PRODUCTS INC ("MTD") with respect to new merchandise purchased and used in the United States, its possessions and territories.

MTD warrants this product against defects in material and workmanship for a period of two (2) years commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in material or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water or damage because of other peril or natural disaster. Damage resulting from the installation or use of any accessory or attachment not approved by MTD Products Inc. for use with the product(s) covered by this manual will void your warranty as to any resulting damages.

Normal wear parts or components thereof are subject to separate terms as follows: All normal wear part or component failures will be covered on the product for a period of 90 days regardless of cause. After 90 days, but within the two year period, normal wear part failures will be covered ONLY IF caused by defects in material or workmanship of OTHER component parts. Normal wear parts and components include, but are not limited to, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, shave plates and tires. Batteries are covered by a 90-day limited replacement warranty.

**HOW TO OBTAIN SERVICE:** Warranty service is available, WITH PROOF OF PURCHASE THROUGH YOUR LOCAL AUTHORIZED SERVICE DEALER. To locate the dealer in your area, please check for a listing in the Yellow Pages or contact the Customer Service Department of MTD PRODUCTS INC by calling 1-800-800-7310 or writing to P.O. Box 368022, Cleveland, Ohio 44136-9722.

### This limited warranty does not provide coverage in the following cases:

- a. The engine or component parts thereof. These items carry a separate manufacturer's warranty. Please refer to the applicable manufacturer's warranty on these items
- b. Log splitter pumps, valves and cylinders have a separate one year warranty.

- c. Routine maintenance items such as lubricants, filters, blade sharpening and tune-ups, or adjustments such as brake adjustments, clutch adjustments or deck adjustments; and normal deterioration of the exterior finish due to use or exposure.
- d. MTD does not extend any warranty for products sold or exported outside of the United States of America, its possessions and territories, except those sold through MTD's authorized channels of export distribution

No implied warranty, including any implied warranty of merchantability or fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty or guaranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product shall bind MTD. During the period of the Warranty, the exclusive remedy is repair or replacement of the product as set forth above. (Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.)

The provisions as set forth in this Warranty provide the sole and exclusive remedy arising from the sales. MTD shall not be liable for incidental or consequential loss or damages including, without limitation, expenses incurred for substitute or replacement lawn care services, for transportation or for related expenses, or for rental expenses to temporarily replace a warranted product. (Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.)

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. Alteration of the safety features of the product shall void this Warranty. You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the use or misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser, original lessee or the person for whom it was purchased as a gift.

How State Law Relates to this Warranty: This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.