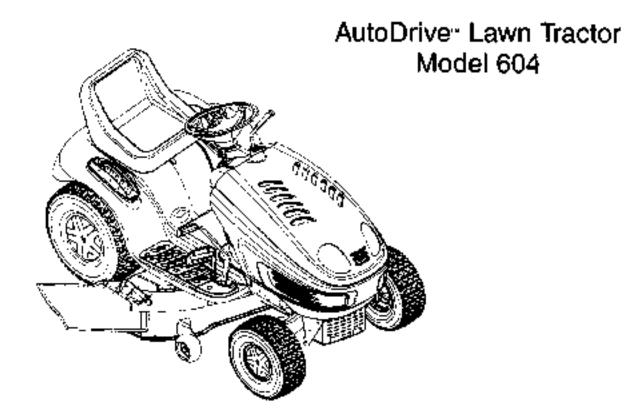


OPERATOR'S MANUAL





IMPORTANT: READ SAFETY RULES AND INSTRUCTIONS CAREFULLY

Werning: This unit is equipped with an internal combuator engine and should not be used on or near any unitproved longs, covored, brush covered or grass-covered, and unless the engine's endowst system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark anester is used, it should be maintained in allective working order by theperator In the State of California the above is required by law (Soction 4442 of the California Public Resources Code). Other states mahove similar laws, "ederal laws apply on tederal lands. A spark arrester for the multifier is available through your nearest origine allective sorvice dealer or context the service department. P.O. Box 368022 Cloveland, Onio 44103-8722.

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

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FORM NO. 770-10079 (12/98)

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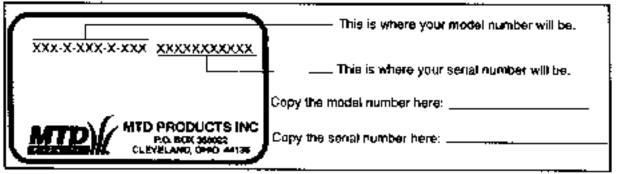
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SECTION 2: FINDING YOUR MODEL NUMBER

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.

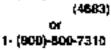
Sefore you atent to prepare your fractor for its first use, please locate the model plate and copy the information from it in this Operator's Manuet. The information on the model plate is very important if you need help from your dealer or the MTD customer support department.

- 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.
- Customer Support can be reached by diallog: 1- (330) 220-4NTD



- Picase have your model number and seriel 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 HESULT 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 detects or other reproductive harm.



DANGER: Your laws 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 laws mower is capable of emputating herds and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

1. GENERAL OPERATION

- Reat, understand, and follow all instructions in live operator's manual and on the machine before alerting. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Only allow responsible individuals familiar with the matructions 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 line 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 evoid a thrown objects injury, keep children, bystanders and helpers at lasst 75 feet from the mower while it is in oparation. Always wear safety glesses or aafety gogglas during operation or while performing an edjustment or repair, to protect eyes from foreign objects. Stop the blade(a) when crossing gravel drives, walks or roads.
- Be sure the area is cloor 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. Aways 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 calcher or the chute guard in place.
- Slow down before turning. Operate the machine smoothly. Avoid erratic operation and excertaive speed.

- Never leave a running machine unattended. Always tum off blade(s), place transmission in neutral, set park brake, stop engine and remove key before oismounting.
- Turn off black(s) when not mowing.
- Stop engine and wait until bladle(s) comes to a complete stop before (a) removing grass catcher or unclogging chule, or (b) making any repairs, adjusting or removing any grass or debits
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the iniliaence of alcohol or orags.
- Watch for traffic when operating near or crossing roadways.
- Use axtra 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 wjury. The unit must be pushed manually on a ramp to load or unload property.
- Never make a cutting height adjustment while engine is running if operator must clamount to do so.
- Wear sturdy, rough-soled work shoes and closefitting stacks 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 sheakars.
- Check overhead clearance carefully before driving under power times, wires, bridges or tow 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 clutones, thoroughly depress the brake pedal, and shift into neutral before attempting to start engine.
- Your movier is designed to cut normal residential grass of a height no more than 10°. Do not attempt to mow likeloigh unusually tall, dry grass (e.g., pasture) or piles of dry leaves. Debris may build up on the movier 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 severa injury or death. All slopes require axtra caution, if you cannot back up the slope or if you feet uneasy on it, do not mow k.

For your safety, use the alope 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 erea or serious injury could result

DQ:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, limbs, etc.
- Watch for holes rule 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.
- Lise extra care with grass calchers or other attachments. These can change the stability of the machune.
- Keep all movement on the slopes slow and gradual. Do not make suddan changes in speed or direction. Rapid engagement or braking could cause the front of the machine to lin and rap cly flip over backwards which could cause serious injury.
- Avoid starting or stopping on a slope. If this losy traction, disengage the blade(s) and proceed slowly atraight down the slope.

DO NOT:

- Do not turn on slopes unless necessary; then, turn slowly and gradually downhitt, if possible.
- Do not mow near drop-offs, dilches or envolarikments The mower could suddenly turn over it 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 mechine by putting your loot on the ground.
- Do not use grass catcher on steep slopes.

3. CHILDREN

Tragic accidents can occur if the operator is not after 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 watchiul care of an adult offner than the operator.
- Be alert and turn machine off if children enter the area.
- Batore 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 supprvision and proper instruction.
- Remove key when machine is unattended to prevent unauthonzed 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 exploance.
- 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 luel before starting the engine as it may cause a fire or explosion.
- Extenduish 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
- Nover run a machine inside a closed area.
- To reduce fine hazard, keep the machine line 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, maka certain the blanks 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 balts at frequent intervals for proper rightness. Also, visually insport blade for damage (e.g., excessive wear, tent, cracked). Replace with blade which meets original equipment specifications.

- Keep all nuts, bolts and screws light 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, demage and deterioretion, which could expose moving parts or allow objects to be thrown. For your safety protection. ⁴requently check components and replace with menutacturer's recommended parts when necessary.
- Mower blades are sharp and can cut. Wrap the Made(s) or wear gloves and use extre caution when sorvicing blade(s).
- Check brake operation frequently. Adjust and service as required.
- Mutilier, engine and belt guards become hot during operation, and can cause a burn. Allow to cool down bofore 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 Iluids 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. Property dispose of the containers immediately following the drainingof 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, hull, coolant brake fluid, filters, batteries, tires and other harmful waste

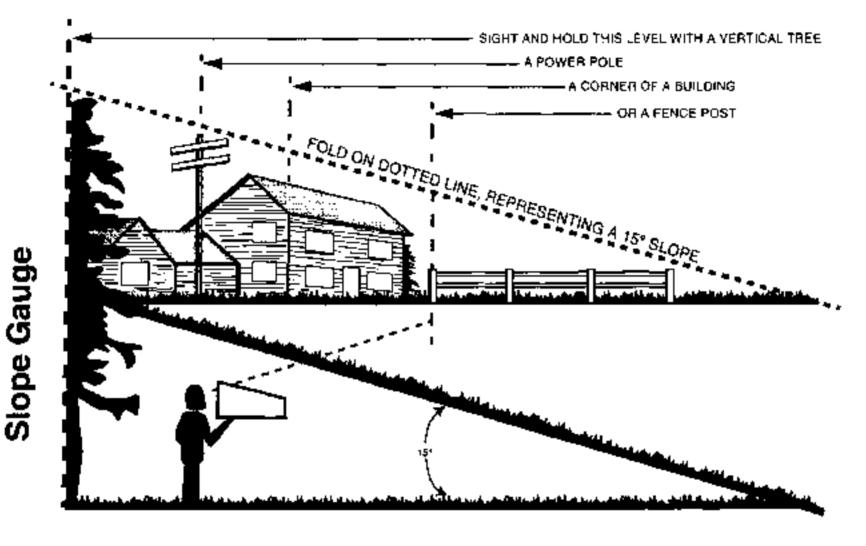


WARNING - YOUR RESPONSIBILITY: Restrict the use of this power machine to personal who read, understand and follow the warnings and instructions in this manual and on the machine.



Figure 1: Safety Labels found on your unit.

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 mainta. In your footing and you could alip, resulting in serious injury.

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

SECTION 5: ATTACHMENTS & ACCESSORIES

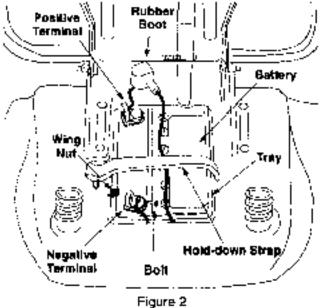
MODEL NUMBER	DESCRIPTION
DEM-190-601	FastAtlach: Twin Bagger Grass Collector (For 42-inch Decks Only)
OEM-190-602	FastAttach Twin Bagger Grass Collector (For 46-inch Decks Only, includes a set of blades)
CEM-190-112	Mulch Kit (For 42-rich Decks Only)
CEM-190-118	Mulch Kill (For 48-mch Decks Only, Includes a set of blades)
CEM-190-603	FastAttach Front Bumper Kil
OEM-190-504	TracPac: Storage Container (mounts on rear of tractor)
OFM-190-822	FastAttech 45-inch Front Dozer Blade
OEM-190-823	42-Inch Two-stage Snowthrower

SECTION 6: TRACTOR SET-UP

ATTACHING THE BATTERY CABLES

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

- The positive cable (heavy red wire) is secured to the positive battery terminal (+) with a 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 no/d-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 bettery, charge for minimum of one hour at 6-10 amps. Refer to the MAINTENANCE sector: of this manual for more detailed instructions regarding proper bettery 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 opereting. Be careful not to overfill. Overfilling with oil may cause the engine to smoke. This will result in poor engine performance and could cause permanent engine demage.

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



WARNING: Gasoline produces notious lumes, Never fill fuel tank indoors. Always fill the fuel tank in a well ventilated area to avoid inhalation of gasoline tumes



WARNING: Nover smoke while fueling your tractor or fill the fuel tank while engine is running or while engine is hot.



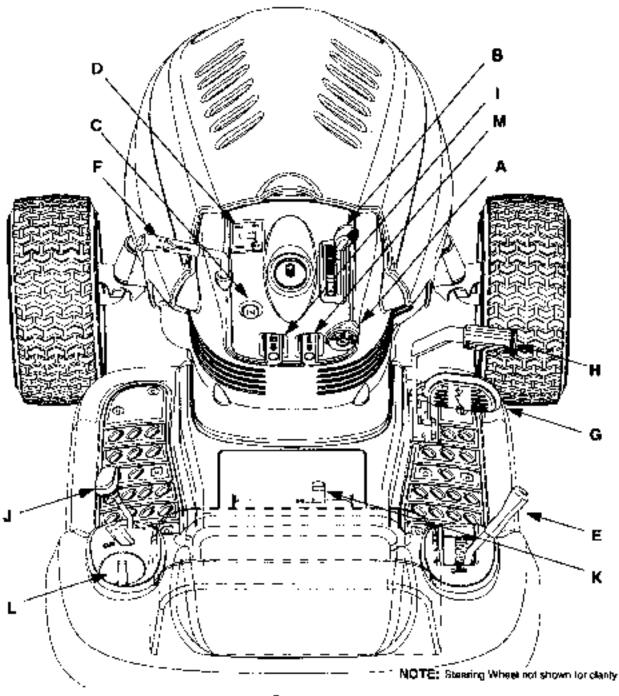
WARNING: Do not full closer than 1/2 inch from the top of the fuel tank to prevent spills and to allow for fuel expansion. If gasoline is accidently spilled, move tractor away from area of spill. Avoid creating any source of ignilion until gasoline vapors have disappeared.

INSTALLING THE MULCH KIT

On units equipped with a 46-inch deck, follow the instructions included with the mulch kit which is packaged separately within the crete.

On units equipped with a 42-inch deck, the mulch kit is installed at the factory. To remove it, unfasten the wing knob found on the top of the cutting deck and carefully pull the mulch plug out from the discharge area of the deck.

SECTION 7: CONTROLS





- A Ignition Switch
- B Throttle Control Lever
- C Choke Control (if so equipped)
- O Indicator Monitor/Hour Meter
- E Lift Lever
- F PTO (Power Take-Off) Lever
- G AutoDrive- Pedal

- H Brake Pedal
- I Parking Brake Button
- J Shift Lever
- K Seat Adjustment Lever
- L Cup Holder
- M Cruise Control Button

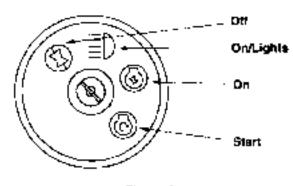
NOTE: Any reference in this manual to the RIGHT or LEFT side of the tractor is observed from operator's position.

IGNITION SWITCH

To start the engine, insert key into the ignition switch and turn clockwise to the START position. Helease 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 NEADLIGHTS 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





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.

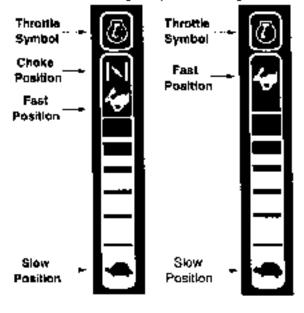


Figure 5

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 ands in starting the engine. Refer to STARTING THE ENGINE in the OPERATION section of this manual for detailed starting instructions.

INDICATOR MONITOR / HOUR METER

Your tractor is equipped with four indicator lights and an hour meter located on the left side of the dash panel. See Figure 5.

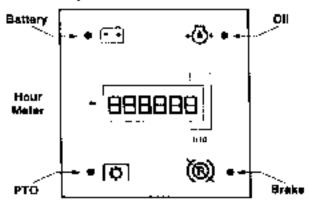


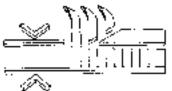
Figure 6

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

- BRAKE Depress the brake podal.
- PTO Move PTO lever into the disengaged (OFF) position.
- OIL— Check the crankcase oil level, and add oil as required.

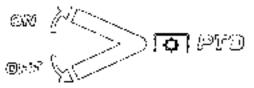
The BATTERY indicator light will illuminate any time the Ignition key is the On position and the engine is not running. It it illuminate's while the engine is running, it indicates that the battery is in need of a charge. Roter to the MAINTENANCE section of this manual for the proper battery charging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

The hour mater operates whenever the ignition key is in the On or On/Lights position and records the actual hours of tractor operation.



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.

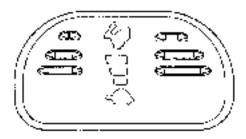
PTO (POWER TAKE-OFF) LEVER



The PTO lever is located on the falt side of the dashboard next to the stearing 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.

AUTODRIVE- PEDAL



The AutoDrive- pedal is located below the brake pedal on the right front side of the tractor along the running board. Depress the AutoDrive - pedal with your right toot when the tractor shift lever is in either forward or reverse to cause the tractor to move. Ground speed is also controlled with the AutoDrive 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 AutoDrive - pedal along the running board. The brake pedal can be used for sudden stops or 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

To set the parking brake, fully depress the brake pedal and push the parking brake button in. Hold the button in while taking your foot off the brake pedal. Both the parking button and the brake pedal will then stay depressed. To release the parking brake, depress the brake pedal slightly. The parking brake button will then return to its original position.



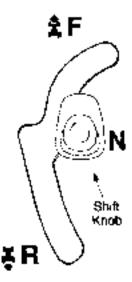
NOTE: The parking brake must be set if the operator leaves the seut with the engine running or the engine will automatically shut off.

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

SHIFT LEVER

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

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



CRUISE CONTROL BUTTON

The cruise control button is located on the tractor dash panel to the left of the ignition switch. Push the cruise control button while traveling forward at a desired speed. While holding the button in, release preseure from the AutoUnver pedal. This will engage the cruise control and allow the tractor to remain at that speed without applying pressure to the AutoDriver pedal. Depress the brake pedal or the AutoDrive- pedal to deactivate cruise



control. Refer to the OPERATION section of this manual for detailed instructions reparding the cruise control feature.

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 MTD Service 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 lever 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 lever in the engaged (ON) position, regardless of whether the brake lock is engaged. The PTO lever must be in the disengaged (OFF) position to rostart the engine.
- The safety interlock system will automatically shut off the angine if the PTO lever 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.

ADJUSTMENTS section of this manual for more detailed instructions.

To adjust the seat forward or backward, slide live seat adjustment lever to the left and reposition the

seat to the desired position. Once a comfortable

position is found, release the seat adjustment lever

Refer to the

SEAT ADJUSTMENT LEVER

lock the seat in place.

CUP HOLDER

The tractor's cup holder is located on the fender to the left of the seat, just to the rear of the shift lever.



10

WARNING: Never operate the tractor Under the influence of alcoholic beverages. or drugs of any kind. Doing so can result in serious personal injury or death.

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



AVOID SERIOUS INJURY OR DEATH

- GD 'SP AND DOWN SLOPES, NOT ACROSS
- + AVOID SUCCEN TURNS
- DO NOT OPERATE THE UNIT WHERE IT COULD SUP OR THE IF MACHINE STOPS GOING UPHILL, STOP BLADF(3) AND BACK
- DOWNWILL SLOWLY DO NOT WOW WHEN CHILDREN OR OTHERS ARE AROUND.
- NÉVÊN CAHÂY CHILDHEN.
- LCOK DOWN AND BO IND BEFORE AND WHILE BACKING. KEEP SAFETY DEVICES (GUAPOS, SHEELDS, AND SWITCHES) IN PLACE AND WORKING.
- MEMOVE OBJECTS THAT COULD BE THROWN BY THE READE(\$)
- KNOW LOCATION AND FUNCTION OF ALL CONTROLS.
- BE SUFE BLADE(6) AND ENGINE ARE STOPPED BEFORE ("LAU-ING HANDS OR FEET NEAR BLADE(S)
- BEFORE LEAVING OPERATOR'S POSITION DISEAGAGE BLADE(S), PLACE THE SHIFT LEVER IN NEUTRAL, FAMAGE BRAKE LOCK, SHUT ENGINE OFF AND REMOVE KEY. READ OPERATOR'S WANUAL

SETTING THE CUTTING HEIGHT

Select the height position of the cutting dack by placing the dock kill lover in any of the six different cutting height notches on the right side of the fender. Then adjust the dack 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 lever in the disengaged (OFF) position.
- Depress the brake pedat and set the parking brake.
- Place the shift lever in the NEUTRAL position.
- Move the throttle control lever into the FAST (or CHOKE, it 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 choice control knob inward (or move the throttle control lever out of the CHOKE position into the FAST position) to open up the choice 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 lever 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 attentire.
- Turn the gnitton 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 fractor.

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 lever 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 AutoDrive- 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 alowly depress the AutoDriver pedal.

SETTING THE CRUISE CONTROL

NOTE: The cruise control feature should only be utilized in the forward direction.

- Place the shift lever in the FORWARD position, then slowly depress the AutoDrivepedal until the desired speed is achieved
- Lightly decrease the cruise control button.

- While continuing to hold the cruise button in, lift your foct from the AutoDriver pedal (you should feel the cruise latch engage).
- If properly engaged, the cruise control button and the AutoDriver pedal should lock in the down position, and the tractor will maintain the same (orward speed.
- Disangage the cruss control using one of the following methods:
 - Depress the brake pedal to disengage the cruise control and stop the tractor.
 - Lightly depress the AutoDivide pedal.

To change to the reverse direction when operating with cruise control, depress the brake pedal to disengage the cruise control and bring the tractor to a complete stop. Then place the shift lever in the REVERSE position and depress the AutoDriven 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 counterclockwase 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 demage to your engine's starter.

STOPPING THE ENGINE

- Place the PTO lever 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 culting 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 (rebbit) position.
- Move the PTO lever lonward into the angaged (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 sotting the parking brake, the engine will shut oil.

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 is equipped with one of MTD's high quality cutting decks. 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.

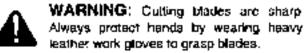


warning: Never direct the discharge of material toward bystanders or allow anyone near the machine while in operation.

 For best results it is recommanded that the livet 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.

SECTION 9: ADJUSTMENTS

LEVELING THE DECK



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 fire pressure.

Front to Rear

The front of the cutting deck is supported by a stabilizer bar that can adjusted to level the deck from Iron's to rear. The front of the deck should be 1/4° to 3/8° lower than the rear of the deck. Adjust it 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 Millever in the top notch (highest position) and rotate the blade nearest the discharge chuts so that it is parallel with the tractor.
- Measure the distance from the iront of the blade tip to the ground and the rear of the blade tip to the ground. The first measurement.

- 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 eltempt to mow heavy brush and weeds and extremely fail 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.

taken should be between 1/4" and 3/6" 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.
- Relighten the two jam huts loosened earlier when proper adjustment is achieved.

Side to Side

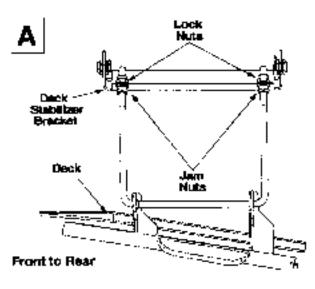
If the cutting deck appears to be mowing unevenly, a side to side adjustment can be performed. Adjust if nacessary as follows:



WARNING: Turn the tractor's engine aff, remove the key from the ignition switch and apply the tractor's perking 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 up 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 hox cap screw on the left deck hanger bracket. See Figure 7B.
- Balance the deck so that both blade up measurements taken earlier are equal.
- Relighten the hex cap screw on the left deck hanger bracket when proper adjustment is achieved.



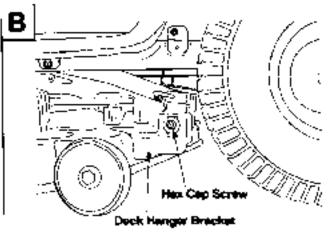
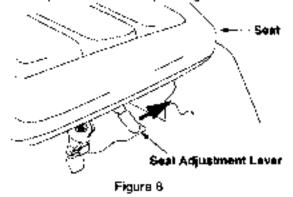




Figure 7

SEAT ADJUSTMENT

To adjust the position of the seat, move the seat adjustment lever (located under the seat) to the felt and side the seat forward or backwards. See Figure 8. Make sure seat is locked into one of the six adjustment positions before operating the tractor.



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 trag links may need to be adjusted.

Adjust the drag links so that could lengths are threaded into the ball joint on the felt 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 9. Remove the hex nut and lock washer on the top of ball joint. See Figure 9.

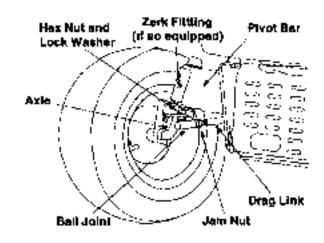


Figure 9

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

NOTE: Threading the bell joints too far onto the drag links will cause the front lines 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 shead travel. Insent a 1/4" dowel up through aligning hotes in both the steering gear and support plate. See Figure 10.

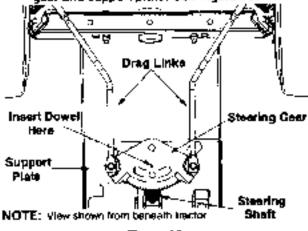


Figure 10

- In front of the exter measure the distance horizontally from the inside of the left rim to the inside of the right nm. Note the distance.
- Behind the axle, measure the distance horszontally from the inside of the left rim to the inside of the right rim. Note the distance.
- The measurement taken in front of the sxle should be between 1/16' and 5/16' less than the measurement taken behind the axle.
- Adjust it necessary.
- Remove the dowel inserted partier before attempting to operate the tractor

CARBURETOR ADJUSTMENT



WARNING: If any adjustmente 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.

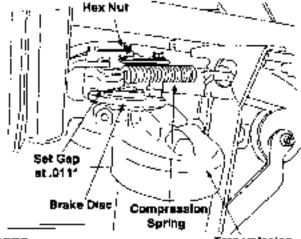
NOTE: A dirty air cleanor will cause an engine to run rough. Be certain it is clean and propeny attached before adjusting carbutetor. Refer to separate engine manual packed with your unit for information regarding air cleaner maintenance.

Refer to separate engine manual packed with your unit for carburator adjustment information or sec an authorized angine service dealer.

BRAKE ADJUSTMENT

It 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 to lows:

 Looking at the transmission from the right side of the fractor, locate the compression spring and brake disc. See Figure 11.



NOTE: View shown from beneath fractor, Transmission

Figure 11

- Loosen, but do NOT remove, the hex nut found on the right side of the brake assembly. See Figure 11.
- Using a feeler gauge, set the gap between the brake disc and the brake puck at .011*.
- Re-tighten the hex nut loosened earlier.

PTO (POWER TAKE-OFF) ADJUSTMENT

If your tractor's engine fails to crank when following the starting instructions found earlier in this manual, the PTO may be in need of adjustment. With the PTO lever in the disengaged (OFF) position, the lever must go back for enough so that a metal tab that is bolted to the base of the lever can fully depress a plunger saftey switch mounted to the tractor's frame beneath the fuel tank. Adjust, if necessary, as follows:

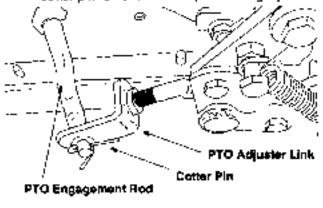


WARNING: If the blades on your tractor's cutting deck continue to turn with the PTO lever in the disengaged (OFF) posuon, stop the tractor immediately and perform the following steps

 Turn the tractor's engine off, remove the key from the ignition ewitch and apply the tractor's parking brake.

- Locate the PTO engagement rod and the PTO adjuster link by looking at the tractor's underside. See Figure 12.
- Remove the conter pin that attixes the lower end of the PTO engagement rod to the PTO adjuster link. Save the pin. See Figure 12.
- Take the lower end of the PTO angagement rod out of the hole in the PTO adjuster link and move the rod as far back into the disengaged (OFF) position as possible.
- Thread the PTO adjuster link outward until the hole in the end of it is aligned with the PTO engagement rod.

Reinsert the PTO engagement rod into the note in the PTO adjuster link and reinsert the cotter pin removed earlier (if undamaged).





SECTION 10: MAINTENANCE



WARNING: Disconnect the spark plugwire(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 ongine oil level balore each use as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Changing Engine Oil

 Unscrew of fill cap and remove dipstick from the oil fill tube. See Figure 13.

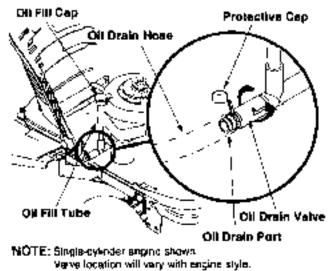


Figure 13

- Pop open the protective cap on the end of the od drain valve to expose the oil drain port. See Figure 13.
- Push oil dram 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 stightly, then rotate counterclockwise and pull outward to begin draining oil. See Figure 13.
- 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.

Refiji the engine with new motor oil.

IMPORTANT: Reflif 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 lew hours under extremely duety condition. To service the air cleaner, refer to the separate engine manual packed with your unit.

The **spark plug(a)** should be cleaned and the gap reset once a season. Spark plug 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 bit soilled on the machine should be wiped off promptly. Do NOT allow gress, 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 wak broom, putty knile or forced air after each mowing.

IMPORTANT: Do NOT use a garden hose to clean the cutting deck. The ball bearings in the blade spinoles are sealed at the factory and cannot be relubricated. Spraying water near the spindles can significantly reduce the life of the bearings

CUTTING DECK REMOVAL

WARNING: Before performing any maintenance, move the PTO lover into the disangaged (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 dack must be removed from the tractor. To properly remove the cutting deck, proceed as follows:



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

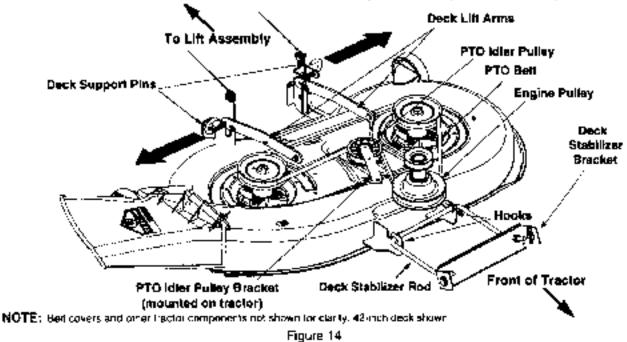
 Move the PTO lever into the disengaged (OFF) position and engage the parking brake.

- Lower the deck by moving the lift lever into the bottom natch on the right fender.
- Grasp the PTO idler pulley bracket and pivol it loward the discharge chute to relieve tension on the belt. Remove the deck belt from the bottom portion of the engine pulley and from eround the PTO idler pulley.

NOTE: On units equipped with a 46-inch deck, the bottommost bell 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 14.
- Hotate 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 lender to raise the deck lift arms out of the way.
- Gently slide 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 fail 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 sleps 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:

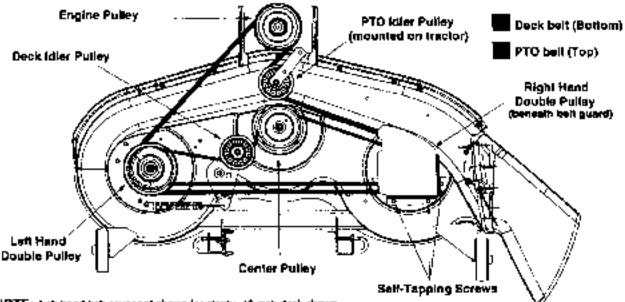
NOTE: Removing the deck from the tractor as instructed earlier in this section will ease the following steps, but is not necessary.

42-Inch decks

- Lower the deck by moving the lift lever into the bottom notch on the right tender.
- Remove the belt guards by removing the solf-tapping screws that fasten them to the deck surface.
- Grasp the PTO Idlar pullay bracket and plyot II toward the discharge chute to relieve tension on the bell.
- Remove the deck boil from the bottom portion of the engine pulley and from around the PTO idlar pulley.
- Route the new belt as shown in Figure 14, around the deck pulleys, idler pulley and engine pulley.

IMPORTANT: It is recommanded that the PTO be readjusted after replacing the deck bell. Refer to PTO (POWER TAKE-OFF) ADJUSTMENT in the ADJUSTMENTS section of this manual for the proper procedure.

Remount the belt guards removed earlier.



NOTE: Left hand belt cover not shown for clarity, 46 met, dock shown.



46-Inch decks

- Lowar the deck by moving the lift lever into the bottom notch on the right lender.
- Remove the belt guards by removing the self-tapping screws that faster them to the deck.
- Grasp the PTO Idlar putley bracket and pivot it toward the discharge chute to relieve tension on the belt.
- Remove the deck belt from the bottom portion of the engine pulley and from around the PTO idler pulley.
- Remove and discard old belt.
- Route the new beh(s) as shown in Figure 15. OEM belt part numbers are listed on the following page.

IMPORTANT: It is recommended that the PTO be readjusted after replacing the deck belt. Refer to PTO (POWER TAKE-OFF) ADJUSTMENT in the ADJUSTMENTS section of this manual for the proper procedure.

Remount the belt guards removed earlier.

	42-Inch Deck		46-Inch Deck
PTO (Top) Belt	754-0472	-	754-0476
Bottom Bell	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.

- Hemove the outting 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, inliqued 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 idlar pullcy 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 pullay counterclockwise to roll the bell 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.

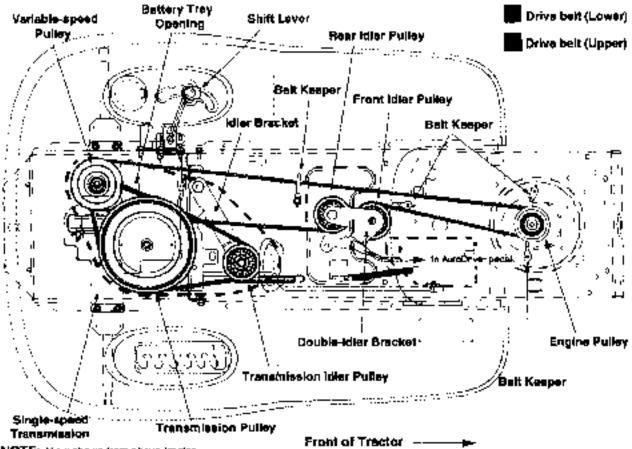
Lower Drive Belt

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

IMPORTANT: Note the routing of the lower drive bell around both the pulleys and the bell 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 bott that affixes it to the transmission. Use a second wrench to hold the hex nut on the bottom skie 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.

NOTE: Jacking the mar of the tractor up off the ground and securing it with jackstands at this point in the procedure will ease the following steps, but is not necessary.



NOTE: View shown from above fractor

Figure 16

- Remove the rear idler pulley from the doubleidler bracket while unrouting the beh from around both the rear and the front idler pulley Refer to Figure 16.
- Remove the cotter pin that affixes the lower and of the PTO engagement rod to the PTO adjuster link. Save the pin for reassembly. See Figure 17.

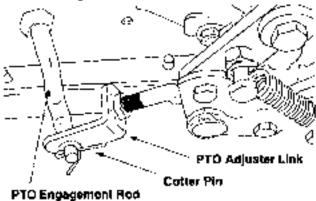
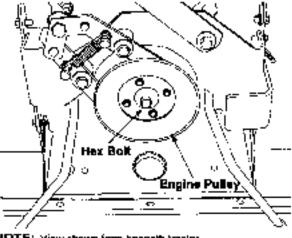


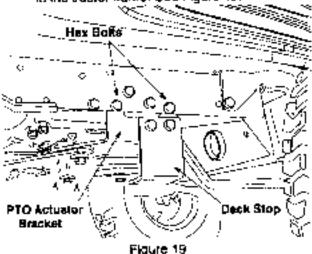
Figure 17

 Remove the hex bolt from the center of the engine pulley. Do NOT attempt to remove the engine pulley at this time. See Figure 18.



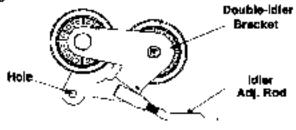
NOTE: View shown from Lonceth tractor Figure 18

IMPORTANT: When remainting the engine pulley, forque the center hex bolt to between 38 footpounds and 50 foot-pounds. Remove the two hex bolts (from both skies of the tractor) that silix the PTO actualor bracket to the tractor frame. See Figure 19.



- Carefully lower the PTO actuator bracket and the engine pulley as an assembly while removing the drive balt from the apper portion of the engine pulley.
- Remove the drive belt by feeding it from both ends loward the front idler pulley on the double-idler bracket. See Figure 16.
- Reassemble by following the abuve steps in reverse order.
- Remote the new bell around the pulleys and belt keepers EXACTLY as the old one was routed. Refer to Figure 16.

The AutoDrive - pedal is property adjusted when the hole found in the double-idler brackot has approximately 1-3/8" of travel with ten pounds of pressure applied to the AutoDrive - pedal. See Figure 20



Front of Tractor

NOTE: View shown from above tracks

Figure 20

Adjust the AutoDrive - perial after replacing the drive bolts on your tractor, if necessary, as follows:

 Locate the speed control assembly on the underside of the steering support bracket. See Figure 21.

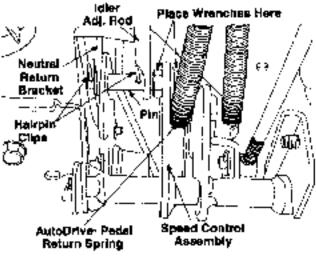


Figure 21

- Remove both hairpin clips from the pin which is fastened to the speed control essembly (be careful not to lose the small flat washers found on the pin). See Figure 21.
- Remove the AutoDrive pedal return spring.
- Using two 9/16' wrenches, remove the pix from the speed control assembly. See Figure 21.

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

 Reassamble by following the above steps in reverse order.

IMPORTANT: After replacing the drive bells, perform the PTO adjustment as instructed in the ADJUSTMENTS section of this manual prior to operating the tractor.

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 thip the deck over to expose its underside.
- Place a block of wood between the center deck housing balfic and the cutting blade to act as a stabilizer. See Figure 22.
- Use a 15/16* wrench to remove the hex flange nut that secures the blade to the spindle assembly. See Figure 22.

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

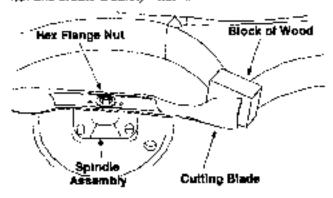


Figure 22

To property sharpen the cutting blades, remove equal amounts of metal from both ends of the blades along the cutting edges. See Figure 23.

Sharpen the cutting edge straight across, parallel to the trailing edge, at a 25° to 30° angle. See Figure 23.

IMPORTANT: If the cutting edge of the blade has already been sharpened to within 5/6° of the wind wing radius, or if any metal separation is present, replace the blades with new ones. See Figure 23.

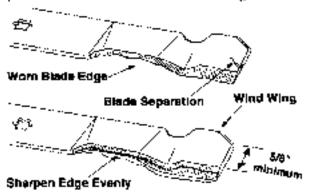


Figure 23

It is extremely important that each cutting blade edge be ground equally to maintain proper blade balance. An unbelanced 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 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 moven is in the operating position.

IMPORTANT: Use a lorgue wrench to lighten the blade spindle hex tlange nut to between 70 lootpounds and 90 loot-pounds.

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 compsive 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 NEGATIVE (Black) wire its terminal first, followed by the POSITIVE (Red) wire. Be certain that the wires are connected to the correct forminals, reversing them could change the polarity and cause damage to your engine's alternating system.

Charging

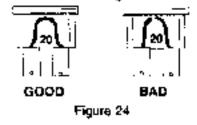
If the unit has not been put into use for an extended period of time, charge the battery with an automotive-type 12-voli charger for a minimum of one hour at six amps.



WARNING: Betteries 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 withing 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 24 to determine if it is good or bad.



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 sidewab for exact fire

manufacturer's recommended psi. Do not overinifiate. Uneven the pressure could cause the cutting deck to mow unevenity

SECTION 11: LUBRICATION



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

ENGINE

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

PIVOT POINTS

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

LINKAGE

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

STEERING GEAR

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

WHEELS

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

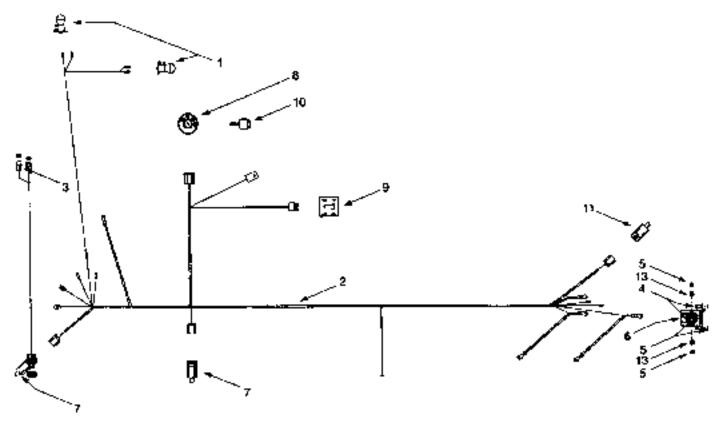
FRONT AXLES

Your tractor may be equipped with zerk fittings on the ends of the front pivot bar. See Figure 9. Lubricate both the left and the right front axles with a grease gun at least once a season.

SECTION 12: TROUBLESHOOTING GUIDE

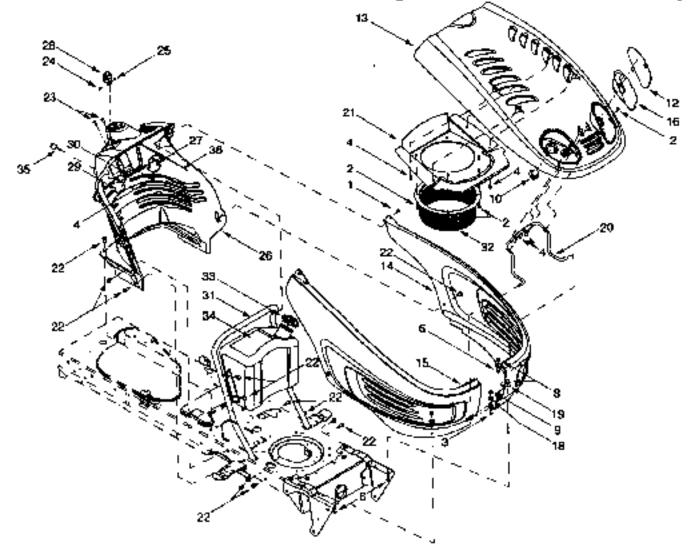
Trouble	Possible	Corrective Action
	Cause(s)	The second secon
Engine will	Salety switch	There are two salety switches in the starting circuit of your unit, the brake pedal switch and the PTD switch. Make pertain the actuator is fully depressing the buttons on each
not crank		switch The Operator must be seated on the tractor in order to start the engine, also
	depressed.	The battery must be installed with negative terminal attached to black ground wire.
	Battery installed	Negative terminal is identified at the post by "NEG", "N" or "-". The post/we larminal,
	[incorrectly.	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 operator's manual for fuse location. Replace fuse with automotive type luse of
 		the 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 coad short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bars 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
	Thirofile of choke	multier or rubbed against a moving part. Refer to the OPEPATION section of this manual for the correct position of the throttle
Engine granks but	1	centrol and choke for starting
will not ster		Composition choke for starting.
	No luel to ine	Gasoline tank empty. FM.
:	certurator.	Fuel line or in-line tuel fitter plugged. Remove and clean luel line. Replace fuel filter
I		(if so equipped) if necessary.
	No spark to	Spark plug lead disconnected. Connect lead: Using a spark tester, check for spark. If
	spark plug(\$).	no spark is present, have engine's magnolo serviced by an authorized engine dealer
	Dirty alroleaner.	If the air cleaner is clirty, the engine may not start. Refer to the engine mercual packed with your unit
Engine	Engine oil has	Check oil level.
smoloes	been overfilled.	
	Engine loses	Dipstick not seared or broken. Replace defective part.
ļ	crankcase vacuum	Engine breather defective. Replace.
Excessive	Bent blade or	Stop engine immediately. Check all pulleys, blade adapters, keys and bolts for
vibration	damaged pulley	
I	· -	Always replace demaged blade. Only use original equipment blades.
Mower	Engine speed	Throttle must be set at full throttle.
won't	low-	
diacharge		
grass or	Cutting height	Raise deck.
leeves	aet loo low.	
unc <u>ai strip</u>	s Blades dull	Sharpen or replace blades (uncut strip problem only)

Model 604



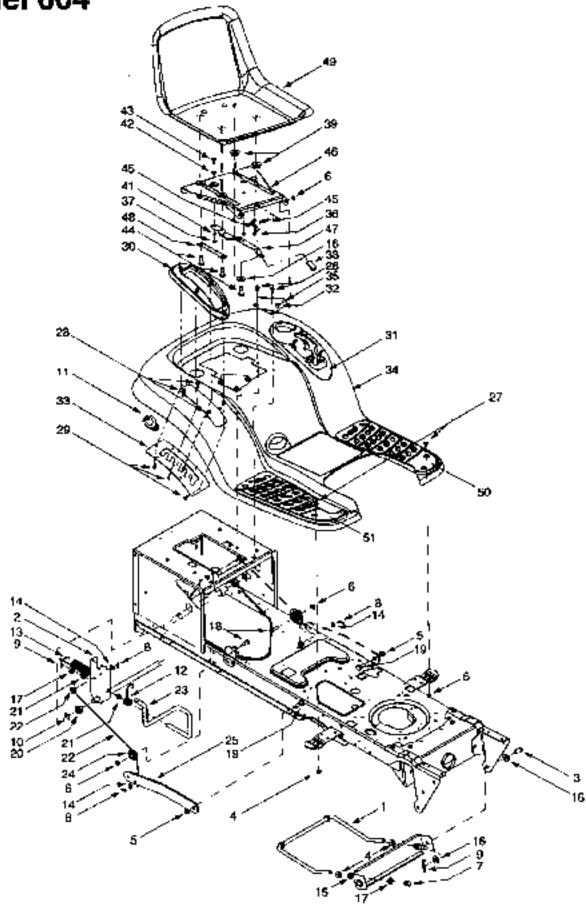
REF.	PART	
NO.	NO.	DESCRIPTION
1	825-0051	Built/Socket Headlight Assembly
	725-1739	Bulb Only
	725-1649	Socket Only
2	629-0913	Winng Hamess
· 3	629-0924	Harness Adapter (for Kohler engines)
: 4	710-0589	Sell Tapping Screw, 1/4-20 x .5
; 5	712-3006	Hex Not, 1/4-20
6	725-1426	Solanołd, 12-volt, 100 Amp
7	725-1657A	Snap Mount Salety Interlock Switch
B	725-1741	Ignition Switch
9	725-1743	Indicator Monitor / Hour Meter
10	725-1745	Ignition Key
11	725-1747	Salety Plunger Switch
12	736-0222	External Lock Washer, 1/4
13	736-0329	Lock Washer, 1/4

Electrical System/Tractor Body



AEF.	PART	T	REF.	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	710-0788	Self Tapping Screw, 1/4-20 x 1.0	21	783-0808	Heat Shield, 4-style
2	710-0599	Self Tapping Screw, 1/4-20 x .5	22	710-0504	Self Tapping Screw, 5/16-18 x 625
3.	710-0751	Hex Cap Screw, 1/4-20 x .62	23	710-1017	Torx Self Tapping Screw, 1/4-14 x .625
4	710-0695	Self Tapping Screw, 1/4-15 x 75	24	710-3217	Torx Screw, 48-32 x .375
5	710-0924	Pan Philips Screw, 1/4-20 x .75	25	712-0142	Hox Nut, 8-32
6	710-3008	Hex Cap Screw, 5/16-18 x .75	26	731-0089	Dash Panel (Manual PTO), 4-style
7	712-0292	U-type Speed Nut, 1/4-20	27	731-0072	Parking Brake Button
8	712-3004A	Flagge Lock Nu1, 5/16-18	28	731-1657	Throite Control Lever
9	712-3027	Hex Flange Lock Nut, 1/4-20	; 29	731-2106	Cruise Control Bulton
10	725-1649	Head Lamp Socket	30	747-1155	Brake/Cruiso Pivot Rod
1 11	731-1978	RH Head Light Lens	31	749-1087	Desh Support Tube
1 12	731-1979	LH Head Light Lens	32	731-2232	Intake Belicw (Intek Single)
1 19	731-1960	Hood, Yallow, 4-style	1	731-2234	intake Belkow (Intek Twin)
14	731-19B1	LH Side Panel, Vellow, 4-style .	33	751-0603	Fuel Cap
15	731-1982	RH Side Panel, Yeeow, 4-style	34	751-0659	Fuel Tank (Two Gallon, Shown)
16	731-1995	LH Head Light Reflector		751-0658	Fuel Tank (Three Gallon)
17	731-1996	RH Head Light Reflector	į 35	/25-1745	Ignificen Key
18	736-0173	Flai Washer, .28 x .74 x .063	36	1746-1084	Choko/Throttle Cable (Intek Single)
. 19	j736-3678	Flai Washer 349 x 1.0 x .063		746-7085	Choke Cable (Intel: Twin)
20	747-1132	Hood Support Rod		746-1088	Choke Cable (Kohlar)

Model 604

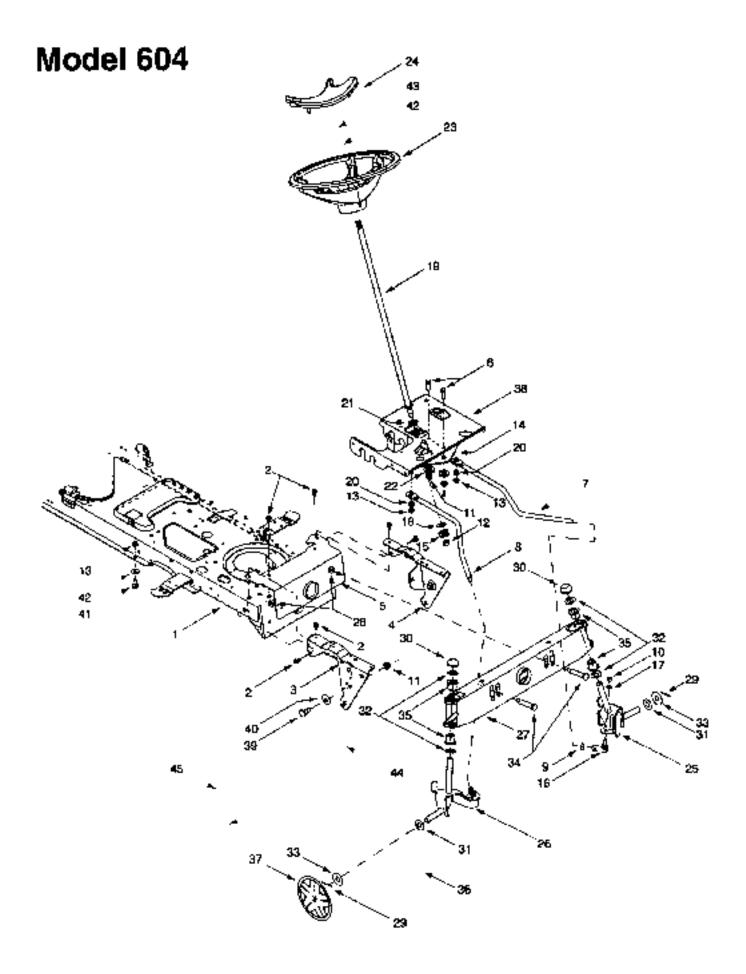


Lift Assembly

AEF.	PART		REF.	PART	·
NO.	NO.	DESCRIPTION	NO.	NQ.	DESCRIPTION
1	647-0040	Dock Stabelizer Rod	27	710-0260	Carriage Boll, 5/16-18 x .62
2	693-0197	Lill Shalt Assembly	28	710-0604	Self Tapping Screw, 5/16-18 x .625
3	711-0332	Clevis Pin, .5 x .76	29	710-0695	Self Tapping Screw, 1/4-15 x .75
4	712-0206	Hax Nut, 1/2-13	30	731-1990	Lift Lever Cover
5	712-0431	Flange Lock Nut, 3/8-16	31	731-2104	Shift Lever Cover w/ Cup Holder
6	712-3004A	Flange Lock Nut, 5/16-18	92	738-0155	Shoulder Screw, .437 x 1.62
7	712-3083	Hex Nul, 1/2-13	33	783-0677	Lift Adjustment Bracket
в	714-0104	Internal Cottar Pin	34	783-0685	Fender
9	714-0111	Cotter Pin	35	783-0715	Seat Mounting Bracket
10	716-0106	E-nog	36	710-1268	Screw, #10-16 x .375
11	720-0311	Handle Grip	37	712-3027	Hex Flange Lock Nut, 1/4-20
12	732-0874	Tonson Spring	38	720-0309A	Seat Adjuster Gnp
13	732-0934	Lift-assist Spring, 1.15 x 5.99	39	731-1989	Spacer
i		(Found on Units w/ 48-inch Decks Dnly)	40	732-0499	Compression Spring, .41 a 1.5
14	736-0275	Fiat Washer, 5/16	: 41	736-0175	Spring Washer, 265 x .562 x .025
15	736-0921	Lock Washer, 1/2	42	736-0204	Fial Washer, 344 x .62 x .03
16	736-3019	Flat Washer, .31 x 1.062 x .134	43	738-0137A	Shoulder Screw, .340 x .265,1/4-20
17	736-3064	Flai Washer, .61 x 1.12 x .06	44	738-1007	Shoulder Screw, .50 x 50, 3/8-16
18	738-0138	Hex Cap Screw, 5/16-18 x .62	45	783-0611	Seat Stop
j 19	738-0380	Shoulder Screw, .5 x .27, 3/6-16	46	783-0736	Seat Pivot Bracket
200	741-0225	Hox Flange Beering	47	783-0739	Seat Adjustment lever
21	741-0715	Snap Flange Bearing	48	783-0753	Seat Adjustment Selector
22	746-0968	Lift Cable, 16.16	49	757-0365	Seat, Radiant Yellow
23	747-1111	Uft Handle		757-0372	Seat, Rediant Yellow w/ Drain Holes
24	756-1154	Roller Pulley	i 50	735-0657	LH Fool Pad
25	783-0676	Arm Lift	51	735-0656	RH Foot Pad
28	783-0720	Deck Stabilizer Bracket		726-3046	Foot Pad Clips (Not Shown)

NOTE: For painted parts, please refer to live fist of color codes below. Please add the applicable color code, wherever needed, to the part number to order a replacement part. For instance, if a part numbered 700-xxxx is painted Yard-Man Graen, the part number to order would be 700-xxxx-0655 Yard-Man Green: 0665

Yard-Man Groon: 0665 Yard-Man Yollow: 0674 Powder Black: 0637

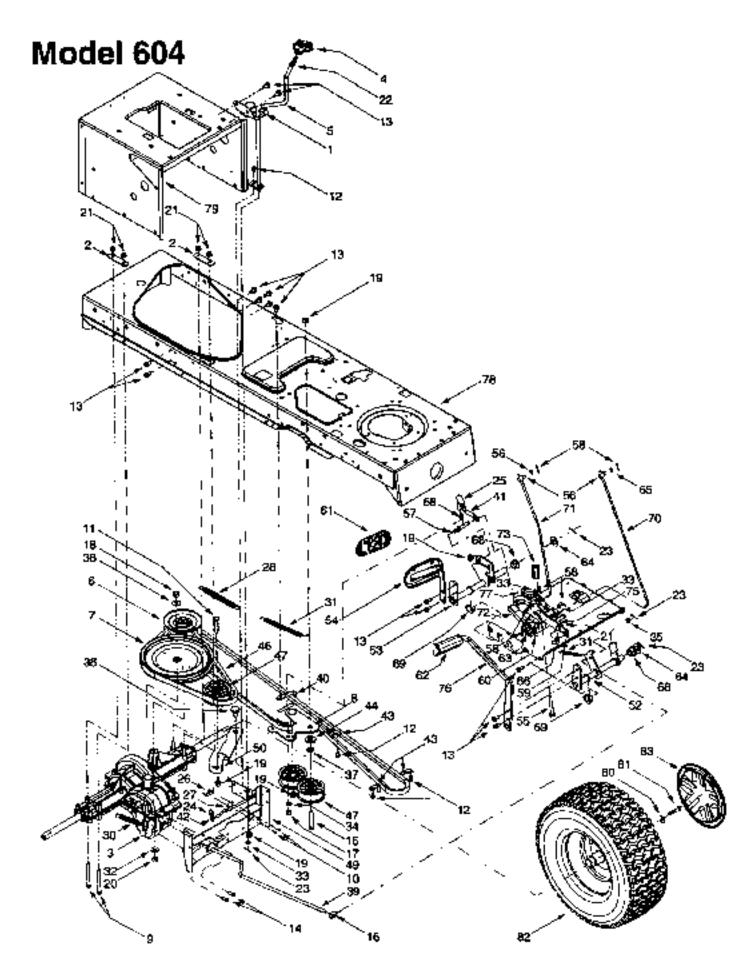


Steering Assembly

REF.	PART		REF.	PART	
NO.	i NO.	DESCRIPTION	NO.	ND.	DESCRIPTION
1	683-0263	Lowar Frame Assembly	27	683-0128A	Pivol Bar
2	710-0604	Sell-tapping Screw, 5/16-18 × .625	28	712-0431	Flange Lock Nul, 3/8-16
3	783-0726	RIH Pivol Support Bracket	29	714-0470	Cotter Pin
4	783-0727	LH Pivol Support Bracket	30	726-0214	Push Cap, 5/8
j 5	783-0728	Pivot Bar Brackel		726-0341	Push Cap, 34
6	710-0514	Hex Cap Screw, 3/8-16 x 1 (Grade 5)	91	736-0162	Fiet Washer, .64 x 1.0 x .12
7	711-1291	LH Drag Link	32	736-0187	Flat Washer, .64 x 1.24 x .06
8	711-1292	RH Drag Unk		736-0316	Flat Washer, .78 x 1.59 x .06
9	712-0240	Jam Nut, 7/16-20 (Grade 2)	93	736-0285	Flat Washer, .635 x 1.569 x .05
10	712-0241	Hex Nut, 3/8-24 (Grade 2)	34	738-1011	Shoulder Screw, .5 x 2.2, 3/8-15
111	712-0431	Flange Look Nut, 3/8-16	35	741-0659	Flange Beating, .632 ID x .937 OD
· 12	712-0459	Flange Lock Nut, 7/16-20		741-0660	Flange Searing, .760 ID x .937 OO
. 13	712-3004A	Fange Lock Nut, 5/16-18	36	634-0105A	Wheel Assembly Complete, 15 x 6 x 6
14	717-1550	Steering Gear, 11/90 Ratio	1	634-0172	Rim Only
15	717-1554	Steering Prrion Geer		734-0255	Air Valve (Not Shown)
16	723-0448A	Ball Joint, 7/16-20		734-1731	Tire Only, Square Shoulder
17	736-0169	Lock Washer, 3/8		741-0487A	Plastic Flange (Not Shown)
18	736-3084	Flat Washer, .51 x 1.12 x .06		741-0706	Pleatic Flange w/ Fitting (Not Shown)
19	738-1001	Steering Shah, .625 OD x 24.4	37	734-1787A	Huto Cap, Yellow w/ Sping Logo
20	741-0475	Plastic Bushing, .38 ID	1:	727-0425A	Spring Cilp (Not Shown)
21	741-0656	Hex Flange Bearing, 5/8	i 38	783-0653	Steering Support Bracket
į 22	748-0416	Shoulder Spacer, .38 ID	j 39	738-1020	Shoulder Screw, .625 x .50, 7/16-20
23	731-1369	Steering Wheel, .625 Spine	40	736-0331	Bell Washer, .39 x 1.13 x 062
24	731-1904	Steering Wheel Cap w/ Logo	j 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
	635-0021	LH Axie Assembly, .625 / .750 Diameter	43	710-0643	Hex Bolt, 5/16-18 X 1
26	638-0020	RH Axle Assembly, .625 Diameter	44	737-3000	Grease Fitting (if so equipped)
	638-0022	RH Axle Assembly, .6257.750 Diameter	45	710-0525	Cast Iron Plvor Bar (if so equipped)

NOTE: For painted parts, please refer to the list of color codes below. Please add the applicable color code, whenever needed, to the part number to order a replacement part. For instance, if a part numbered 700-rock is painted Yard-Man Green, the part number to order would be 700-xxxx-0665.

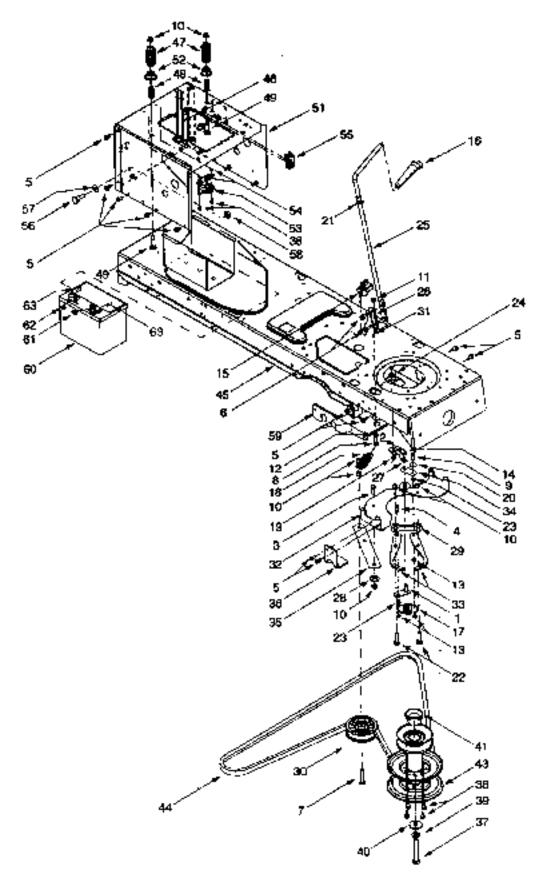
Yard-Man Green: 0665 Yard-Man Yellow: 0674 Powder Black: 0637



Drive System

REF.	PART	<u> </u>	REF.	PART	
ND.	NO.	j DESCRIPTION	NO.	NO.	DESCRIPTION
1	17839	Shift Lever Bracket	45	764-0487	Variable-speed Belt
2	17840	Transaxle Mounting Bracket	46	754-0468	Drive Beit
Э	618-0366	Single-speed Transmission Assembly	- 47	756-0981	Fist Idler, 2.75 OD
4	631-0009	Shifter Knob	46	783-0637	Shift Lever Support
5	647-0041	Shih Lever	49	783-0667	Transmission Torque Bracket
B	656-0048	Variable-speed Pulley Assembly	50	763-0669	Idier Bracket
7	658-0051	Transmission Pubey, 8.5 x .5-36	51	783-0714	Adjustable Shift Brackat
8	683-0251	Double-Idler Bracket	1 52	647-0031	Brake Control Assembly
9	710-0189	Hex Cap Screw, 5/16-18 x 3	53	647-0032	Speed Control Assembly
10	710-0227	Self Tapping Screw, #8-18 x .5	: 54	683-0266	AutoDrive Pedal Assembly
11	710-0347	Hex Cap Screw, 3/6-16 x 1.75	55	710-1135	Sell Tapping Screw, 5/16-18 x 2.5
12	710-0599	Self Tapping Screw, 1/4-20 x .5	56	711-0736	Femule, 1/4-20
13	710-0604	Sell Tapping Screw, 5/18-18 x .625	57	711-1963	, Pin, 3/8-16 x 2.43
14	710-0642	Sell Tapping Screw, 1/4-20 x .75	58	714-0104	Cotter Pin
15	710-3011	Hex Cap Screw, 3/8-16 x 2.25	59	732-0437	Compression Spring, 34 OD x 1.0
16	711-0877	Ferrule, 5/18-18	60	732-0955	Extension Spring, .50 D0 x 1.41
17	712-0241	Hex Nut, 3/8-24	61	735-0682	AutoDrive Pedal Pad
18	712-0378	Hax Nut, 7/16-20	62	735-3048	Brake Pedal Pad
19-	712-0431	Flange Lock Nut. 3/8-16	63	736-0140	Flat Washer, 281 x .5 x .0825
20	712-0796	Hex Nut, 3/6-16	64	736-0187	Flat Washer, .64 x 1.24 x .06
, 21	712-3004A	Flange Lock Nut, 5/16-18	65	736-0204	Flat Washer, .344 x .062 x .03
22	712-3008	Jam Nut, 3/8-18	66	738-0155	Shoulder Screw, 437 x 1 62
23	714-0111	Cotter Pin	67	738-0507B	Shoulder Screw, .5 x .494
24	714-0149B	Internal Cotter Pin	68	741-0225	Hex Flange Bearing
25	723-0156	Ball Joint, 3/8-24	69	741-3065A	Split Hex Flange Bearing
26	725-1644	Short Spring Switch	70	747-1137	Cruise Conirol Rod
27	726-0320	Insulator Nut Plate	71	747-1136	Brake Lock Control Rod
28	732-0384	Extension Spring, .62 Dia, x 6.12	72	748-0413	Cruise Laich
29	732-0526	Compression Spring Clip	73	748-0415	Spacer, 5/16 x 1.54
(30)	732-0716	Extension Spring, .59 OD x 4	74	783-0653	Stearing Support Bracket
31	732-0963	Extension Spring, .50 Dia. x 5.37	75	763-0732	AutoDriver Lockout Bracket
	!	(hocks to (lange, 783-0650, in frame)	76	783-0773	Brake Pedal
32	736-0105	Beil Washer, .401 x .87 x .063	77	783-0780	Neutral Return Bracket
33	736-0140	Fiat Washer, .365 x .62 x .063	78	683-0263	Lower Frame Assembly
34	736-0169	Lock Washer, 3/8	79	783-0668	Hilch Plate
35	736-0275	Flat Wacher, 5/16	1 80	736-0242	Ball Washer, .34 x .872
' 36	738-0407	Bell Wesher, .45 x 1.0 x .602	81	710-0627	Hex Cap Screw, 5/16-24 x .75
37	736-3010	Fiat Wesher, ,407 x .812 x .135	82	634-0177	Wheel Assembly Complete, 20 x 10 x 8
- 38	738-0322	Shoulder Screw, 625 x 217		634-0104	Wheel Assembly Complete, 20 x 8 x 8
- 39	747-1122	Brake Rod	l I	634-0077	Rim Only
40	747-1123	Belt Guard	ŀ	734-0255	Air Valve (Not Shows)
41	747-1127	Adler Adjustment Rod, 3/8		734-1873	Tire Only, 20 x 10 x 8, Square Shoulder
42	747-1156	Shift Rod		734-1730	Tire Only, 20 x 8 x 8, Square Shoulder
43	747-1160	Beit Guard Rod	83	734-1788A	Hub Cap, Yellow w/ Sprig Logo
44	748-0416	Shoulder Spacer, .38 ID		727-0425A	Spring Clip (Not Shown)

Model 604

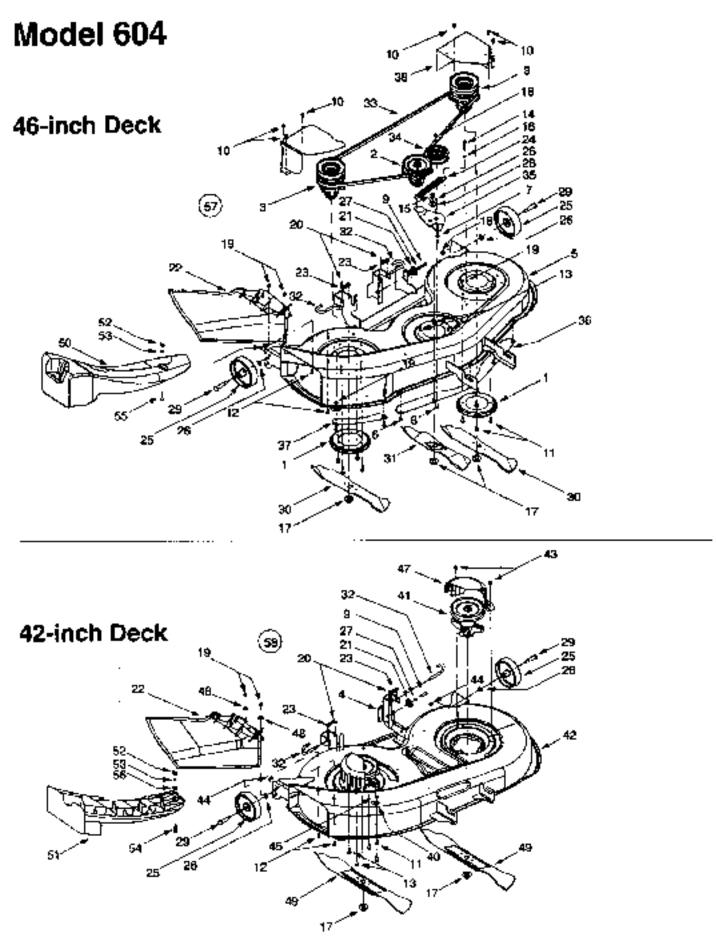


Power Take-off System

REF.	PART	· · · · · · · · · · · · · · · · · · ·	REF.	PART	· · · · ·
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	663-0278	PTO Engagement Link w/ Weld Pin	33	783-0797	PTO Engagement Arm
2	883-0262	PTO Actualor Bracket w/ Weld Nul	: 34	783-0798	PTO Engegement Link
3	710-0514	Hex Cap Screw, 3/8-16 x 1 0 (Grade 5)	35	763-0799	PTO Am
4	710-0597	Hex Cap Screw, 1/4-20 x 1.0 (Grade 5)	36	783-0808	Deck Stop
5	710-0604	Sell Tapping Screw, 5/16-18 x .625	37	710-0581	Hex Cap Screw, 7/16-20 x 2.5 (Grade 5)
6	710-1260A	Self Tapping Screw, 5/16-18 x .75	30	710-0599	Sell Tapping Screw, 1/4-20 x .5
7	710-3011	Hax Cap Screw, 3/8-16 x 2.25 (Grade 5)	- 99	736-0171	Lock Washer, 7/18
; 8	719-3180	[Hex Cap Screw, 5/16-18 x 1.75 (Grade 5)	40	736-0322	Flat Washer, .45 x 1.25 x .164
9	710-3199	Hex Cap Screw, 1/4-20 x 1.5 (Grade 5)	, 41	750-0956	Spacer, 101 = 14 x .825
10	712-0431	Flange Lock Nut, 3/8-16	42	756-1158	Engine Pulley, 5.56 Dia. x 3.56 Dia.
11	712-3004A	Flanga Lock Nut, 5/18-18	43	756-1164	Pulley Sheave
12	712-3010	Hex Nut, 5/16-18	44	754-0472	PTO Belt (42-inch Decks)
13	712-3027	Hax Flange Lock Nut, 1/4-20		754-0476	PTO Bell (46-inch Docks)
! 14	714-0111	Coller Pin	45	683-0263	Lower Frame Assembly
15	725-1657A	Snep Mount Safety Interlock Switch	46	723-0444	Battery Strap
16	731-2111	PTO Knob	47	732-0755	Compression Spring, .1.314 OD x 2.35
17	732-0977	Extension Spring, .62 OD x 2.16	48	732-0958	Compression Spring, .66 OD x 1.5
1.8	732-0976	Extension Spring, 1.2 OD x 3.636	49	738-1014	Shoulder Screw, .5 x 1.25, 3/8-16
19	738-0140	Flat Washer, .385 x .62 x .063	50	783-0349	Battery Tray
20	738-0176	Flat Washer, .25 x .93 x .12	51	783-0688	Hitch Plate
21	736-0272	Fiat Washer, .51 x 1.0 x .60	62	783-0733	Spacer Cup, 1.5 OD
22	738-1021	Stroulder Screw, .5 x .27, 3/8-16	53	725-1426	Solenoid, 12-Voit, 100 Amp
' 23	738-1125	Shoulder Nut, 1/4-20	54	736-0222	Lock Washer, 1/4
24	741-0708	Hex Split Flange Searing, .50 (D	55	725-1747	Selety Interlock Plunger Switch
; 25	747-1112	PTO Engagement Handle	56	738-1020	Shoulder Screw, .625 x .5, 7/16-20
26	747-1114	PTO Engagement Lever	57	736-0407	Bel# Washer, .45 x 1 0 x .062
27	747-1174	PTO Actuator Adjuster Link	58	712-0459	Flange Lock Nut, 7/16-20
28	748-0416	Shoulder Spacer, .38 (D	59	783-0653	Steering Support Bracket
29	746-0421	Arm Spacar, .68	; 60	725-1706	12-volt Battery, 270 CCA
30	756-0627	Flat Idler Pulley, 3.5 OD	61	712-3044	Wing Nut, 1/4-20
31	783-0744	Stop Bracket	62	712-0271	Hex Sems Nut, 1/4-20
32	783-0796	PTO Actuator Bracket	63	710-0751	Hex Cap Screw, 1/4-20 x .62

NOTE: For painted parts, please refer to the fist of color codes below. Please add the applicable color code, wherever needed, to the part number to order a replacement part. For instance, if a part numbered 700-xxxx is painted Yard-Man Green, the part number to order would be 700-xxxx-0655.

Yard-Man Green: 0865 Yard-Man Yellow: 0674 Fowder Black, 0637



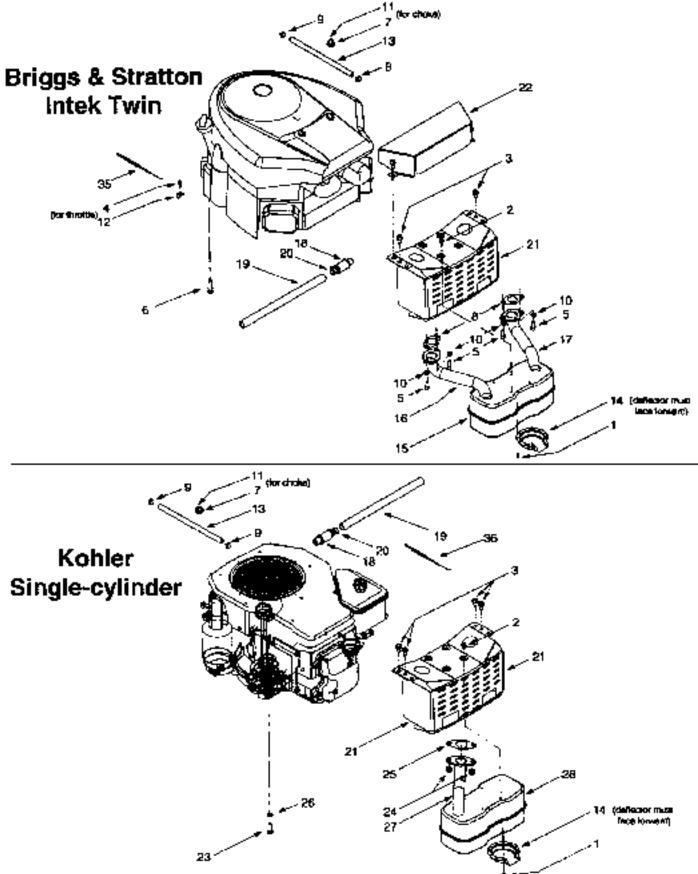
Cutting Decks

REF.	PART	· —	REF.	PART	
NQ.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	17962	Reinforcement Spindle Plate	31	742-0612	Three-in-one Blade, Star Center, 14.88
2	618-0240	Spindle Assembly, 5 Dia.	32	747-1116	Deck Release Pin
i	756-0959	Pulley Only	33	754-0349	Deck 6elt
3	618-0241	Double Pulley Spinole Assembly	34	756-0627	Flat Idler Pulley, 3.5 OD
1	756-0803	Double Puttery Only	35	783-0139	ldier Brecket
4	683-0254	Oeck Adjustment Brecket w/ Wald Nut	35	783-0141	Center Deck Skirt
ا چ ا	683-0265	46-Inch Deck Shell	37	783-0142	, RH Deck Skin
5	710-0167	Carriage Screw, 1/4-20 x .5	j 38	783-0747	LH Bell Cover
7	710-0347	Hex Cap Screw, 3/8-16 = 1.75	39	783-0805	RH Bell Cover
B	710-0514	Hex Cap Screw, 3/8-16 x 1.0	40	16606	Retainer Hook
9	710-0528	Hex Cap Screw, 5/16-18 x 1.25	41	618-0324	Spindle Assembly, 5.75 Dia
10	710-0599	Self Tapping Screw 1/4-20 x .5		758-1151	Pulley Only
11	;710-0650	Self Tapping Screw, 5/16-18 x .875	42	683-0198	42-Inch Deck Shell
12	710-0751	Hex Cap Screw, 1/4-20 x .62	43	710-0604	Sell Tapping Screw, 5/16-18 x .625
13	710-1280A	Sell Tapping Screw, 5/16-18 x .75	44	712-0181	Top Lock Jam Nut, 3/8-16
14	712-3288	Hex Cap Screw, 1/4-20 x 1.62	45	712-0271	Hex Serna Nut, 1/4-20
, 15	712-0241	Hax Nut, 3/8-24	48	712-3005	Hex Nut, 1/4-20
16	712-0291	Center Lock Nut, 1/4-20	47	731-2231	Belt Cover
17	712-0417A	Hex Flange Nut, 5/8-18	48	736-0270	; Bell Westher, .265 z .75 X .062
18	712-0431	Flange Lock Nul, 3/8-16	: 49	742-0616	Three-in-one Blade, Star Center, 21.23
19	712-3027	Hex Flange Lock Nut, 1/4-20	50	731-1638	Mulch Plug, 48-Inch Decks
20	714-0104	Internal Cotter Pin, .072 x 1.12	1 51	731-1643A	Mulch Plug, 42-inch Decks
21	717-1553	Deck Adjustment Gear	52	712-3087	Wing Nut, 1/4-20
22	731-1032A	Side Discharge Chute Assembly	63	712-0291	Center Lock Nul, 1/4-20
23	732-0306	Compression Spring, .406 x .531 x 1.75	54	710-0108	Hax Cap Screw, 1/4-20 x 1.25
24	732-0594A	Extension Spring, .91 x 7.33	55	710-0578	Screw, 1/4-20 x 1.5
25	734-0973	Deck Wheel, 5 x 1.38	SG	736-0173	Flat Washer, .28 x .74 x .063
26	736-0105	Bell Washer, .401 x .87 x .063	57	753-0852	46 inch Deck Assembly Complete
27	736-0119	Lock Washer, 5/18	:		(w/o mulch kit)
28	738-0347	Shoulder Spacer, .625 x .169	58	753-0851	42-Inch Deck Assembly Complete
29	738-0373	Shoulder Spacer, 498 x 1.53			(w/a mulch kil)
30	742-0611	Three-in-one Blade, Star Center, 16 28			

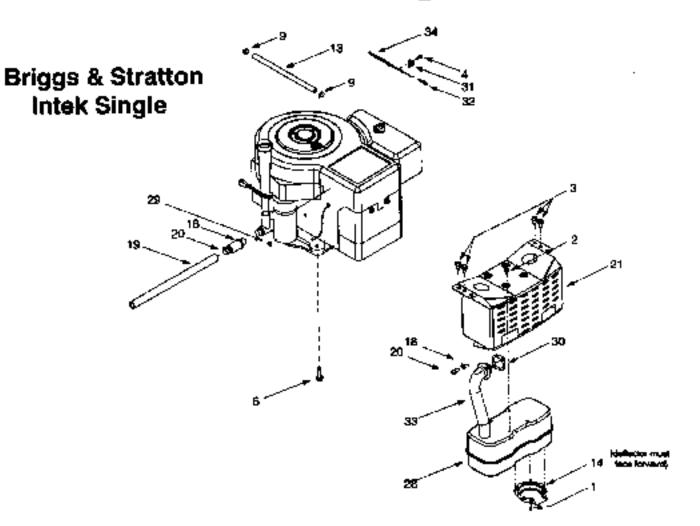
NOTE: For painted parts, please refer to the list of color codes below. Please add the applicable color code, wherever needed, to the part number to order a replacement part. For instance, if a part numbered 700-xxxx is painted Yard-Man Graen, the part number to order would be 700-xxxx-0665.

Yard-Man Green: 0665 Yard-Man Yellow: 0674 Powder Black: 0637

Model 604



Engine Accessories



REF.	PART	-	REF.	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	710-0148	Set Tapping Screw, #8-32 x .375	! 19	751-3141	Oll Drain Hose
įΣ	710-0599	Self Tapping Screw, 1/4-20 x .5	; 20	751-3142	Oli Dram Cap
1.3	710-0604	Self Tapping Screw, 5/15-16 x .525	21	783-0615	Muffler Heat Shield
4	710-1237	Screw, #10-32 × .625	22	783-0625A	Engine Heat Shield
5	710-1314	Socket Cap Screw, 5/16-18 # .825	23	710-3206A	Hex Cap Screw, M8-1 25 x 25
6	710-1315	Self Tapping Screw, 3/8-16 x 1.25	24	712-3086	Flange Not, M8-1.25
7	712-0798	Hex Nut, 3/8-16	25	721-0375	Exhaust Gaskel (Kohler)
8	721-0460	Exhaust Gasket (Intek Twin)	26	736-0607	External Lock Washer, 5/16
9	726-0206	Hose Clamp	27	751-0621	Exhaust Pipe (Kohler)
j 10	736-0119	Lock Washer, 5/16	28	751-0617	Muffler, Single Inlet
11	738-0221	Flat Washer, 3/8 x .55 x .018	29	712-0271	Hex Sema Nut, 1/4-20 (for starter cable)
12	7518221535	Casing Clamp	30	721-0208	Exhausi Gasket (Intek Single)
13	751-0535	Fuel Line Hose	31	732-0966	Extension Spreg, .275 x 1.25
14	751-0564	Multier Deflector	32	7518213146	Casing Clamp
15	751-0818	Muffler, Twin Inlet	33	751-0610	Exhaust Pipe (Intek Single)
1 16	751-0650	RH Exhaust Pipe (Intek Twin)	34	746-1084	Throttle/Choke Cable (Intek Single)
17	751-0651	LH Exhaust Pipe (Intek Twin)	35	746-1086	Throttle Cable (Intek Twin)
18	751-3140	Oil Drain Valve	38	746-1087	Throttle Cable (Kohler)