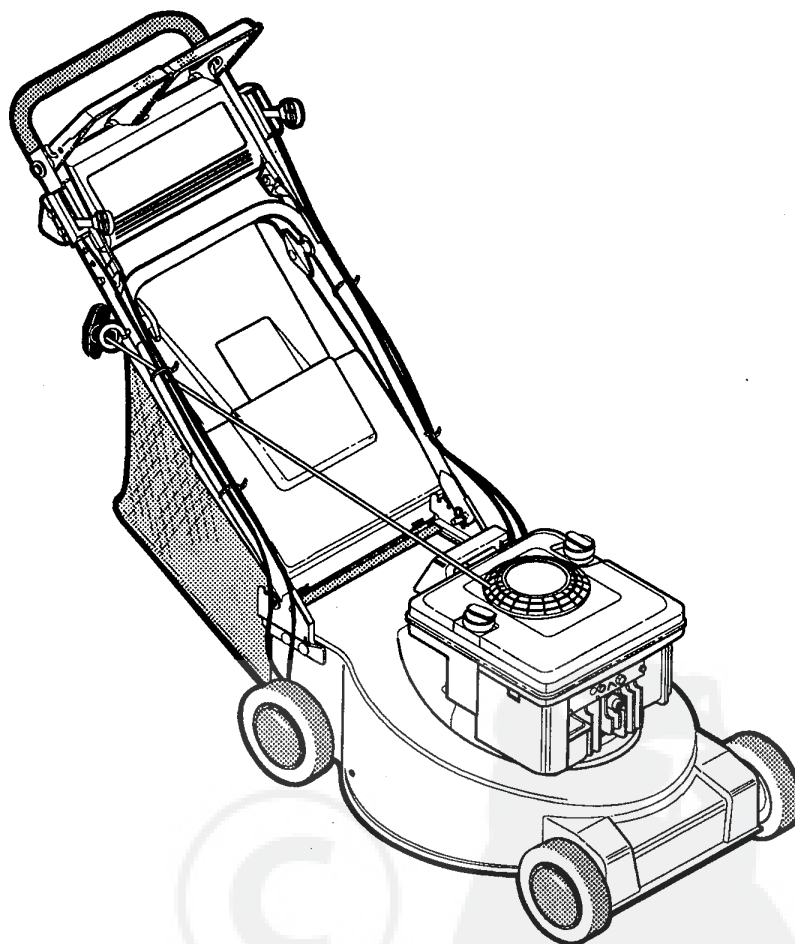


OWNER'S MANUAL

DYNAMARK



ROTARY MOWER C2105-500

NOMA Outdoor Products Incorporated
Caller 8000
Jackson, Tennessee 38308-8000

Part No.322268B /D

Price \$5.00



SAFETY INSTRUCTIONS



READ AND FOLLOW THESE SAFETY INSTRUCTIONS CAREFULLY TO ENSURE SAFE AND PROPER OPERATION OF YOUR UNIT.

TRAINING

- Read the owner's manual carefully. Be thoroughly familiar with controls and the proper use of the mower.
- Never allow children or young teenagers to operate a power mower and instruct them to stay away while it is operating. Never allow adults to operate mower without proper instructions.
- Wear safety glasses or eye shields when assembling or operating mower.
- Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

- Thoroughly inspect the area where the mower is to be used and remove all stones, sticks, wires, bones, and other foreign objects.
- Do not operate the mower when barefoot or wearing sandals. Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
- Check the fuel before starting the engine. Do not fill the fuel tank indoors, when the engine is running or until the engine has been allowed to cool for several minutes after running. Clean off any spilled fuel before starting the engine. Use only approved fuel container.
- Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine (motor).
- Never attempt to make a wheel height adjustment while the engine (motor) is running.
- Mow only in daylight or in good artificial light.
- Never operate the equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk; never run.

OPERATION

- Do not change the engine governor settings or over-speed the engine.
- Do not put hands or feet near or under rotating parts.
- Stop the blade when crossing gravel drives, walks or roads.
- After striking a foreign object, stop the engine (motor), remove the wire from the spark plug (or disconnect battery wire if so equipped), thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.
- If the mower should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.

- Stop the engine (motor) whenever you leave the mower, before cleaning the mower housing, and when making any repairs or inspections.
- When 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 plug (or disconnect battery wire if so equipped) to prevent accidental starting.
- Do not run the engine indoors; exhaust fumes are dangerous (containing CARBON MONOXIDE, an ODORLESS and DEADLY GAS).
- Shut the engine (motor) off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging housing.
- Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
- Give your complete and undivided attention to the job at hand while mowing.
- Never operate the mower without proper guards, plates, grass catcher or other safety devices in place.
- Keep washout ports and other mower-housing openings closed when mowing.
- Always clean clippings from underside of mower-housing and around drive elements after each use.

MAINTENANCE AND STORAGE

- Check the blade and engine mounting bolts at frequent intervals for proper tightness.
- Keep all nuts, bolts, and screws tight to be sure the mower is in safe working condition.
- Never store the mower with fuel in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
- Check bag frequently for deterioration and wear and replace worn bags. Check that replacement bags comply with original manufacturer's recommendations or specifications.

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



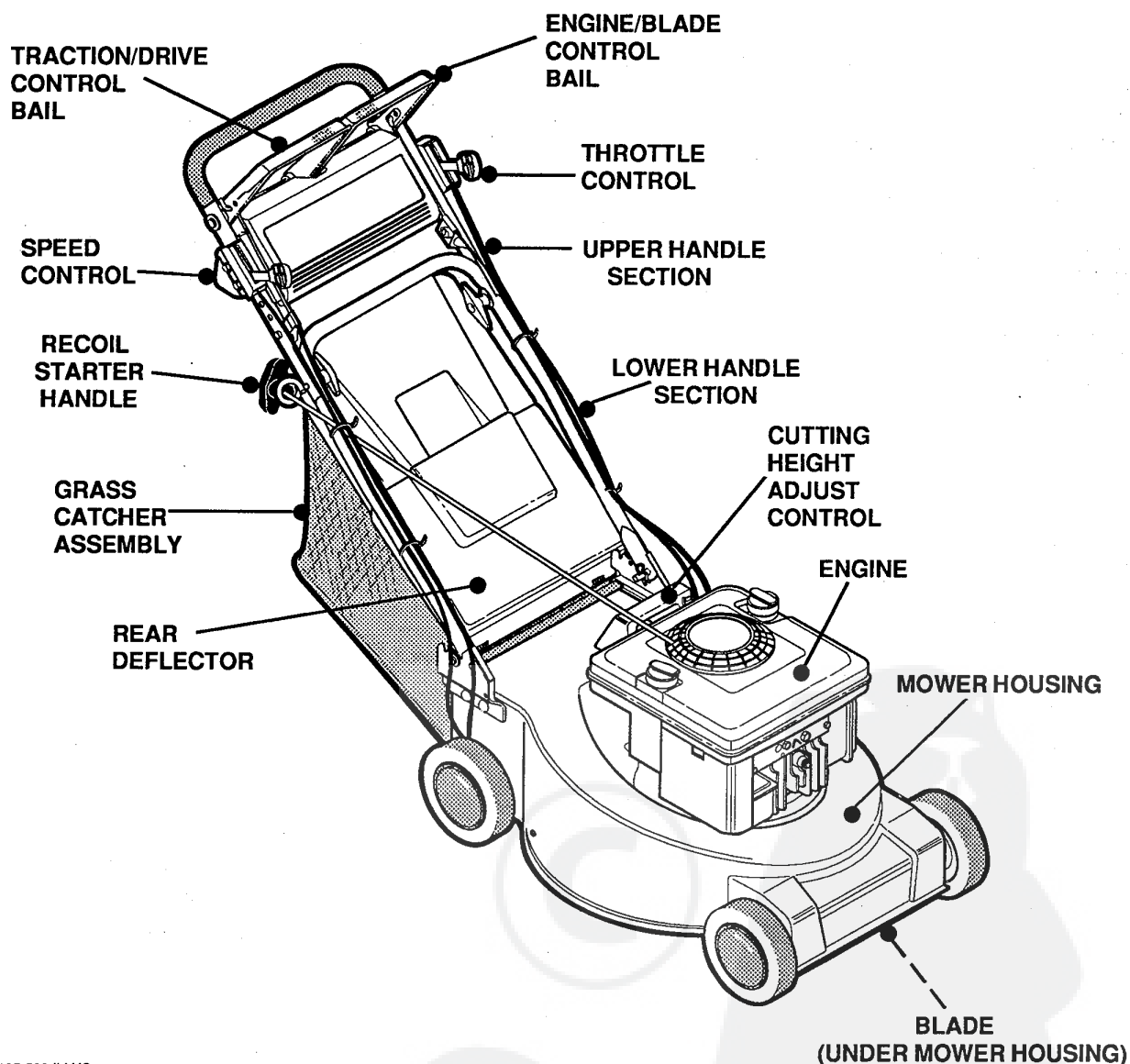
THE SAFETY SYMBOL AND THE EXPLANATION WITH IT DESERVE YOUR CAREFUL ATTENTION. A SYMBOL DOES NOT ELIMINATE THE DANGER NOR IS IT A SUBSTITUTE FOR PROPER ACCIDENT PREVENTION MEASURES. USE COMMON SENSE, A ROTARY MOWER IF OPERATED IMPROPERLY CAN CAUSE SERIOUS PERSONAL INJURY.

MOWER PARTS AND SERVICE

Fill in and mail Registration card packed with the unit. For service other than specified in this manual, contact an authorized service dealer. A nationwide parts and service organization has been established to provide locally available parts and service. A list of authorized parts distributors has been included in this manual. When ordering repair parts, always give the following information: **1. The Part Name; 2. The Part Number; 3. The Quantity Desired; 4. The Full (eight digit) Model Number of the Mower.** The model number will be found on a plate attached to the mower. All replacement parts will be supplied in current production colors or in a neutral color. A handling fee is applicable to small parts orders.

KNOW YOUR MOWER

- **CONGRATULATIONS!!** You have purchased a quality built rotary mower, designed for many years of dependable service.
- The information contained in this manual will familiarize you with the controls, operational procedures and maintenance required to assure many years of safe dependable service.
- Instructions within this manual referring to right hand (RH) or left hand (LH) are from operator's position at rear of mower.



C2105-500 ILLUS

IMPORTANT

THIS MOWER IS EQUIPPED WITH A FLYWHEEL/BRAKE SYSTEM THAT COMPLIES WITH THE U.S. CONSUMER PRODUCT SAFETY COMMISSION STANDARDS. THE BLADE MUST STOP ROTATING WITHIN THREE SECONDS AFTER ENGINE/BLADE CONTROL BAIL IS RELEASED. IF ENGINE AND BLADE DO NOT STOP WITHIN THREE SECONDS, IMMEDIATELY HAVE THE UNIT CHECKED BY YOUR NEAREST AUTHORIZED SERVICE DEALER.

Illustrations in this manual may not show your model but are for reference. They are based on the latest product information available at time of publication.

UNPACKING INSTRUCTIONS

UNPACKING

1. Remove grass catcher, frame, all loose items and hardware package from carton.
2. Remove and discard all packing material used to protect mower in carton.
3. Using a sharp object, cut corners of carton and roll mower out of carton. Place on a level surface.

NOTE: Lift mower at front and back of mower housing. Lifting by engine may cause damage. Do not pull or stretch cables attached to engine. Remember, mower blade is under housing, it is sharp and may cause a severe cut if it contacts hands or fingers. Wear gloves or other hand protection when lifting mower.

4. Take some time to carefully read the **Owner's Manual** to familiarize yourself with the mower, then proceed to **ASSEMBLY INSTRUCTIONS**.

SHIPPING CARTON CONTENTS

- 1 - 21" Rotary Mower
- 1 - Engine Manual
- 1 - Owner's Manual
- 1 - Warranty Registration Card
- 1 - Grass Catcher Assembly
- 1 - Grass Catcher Frame
- 1 - Bag of Assembly Parts Containing:
 - 4 - Cable Tie Straps

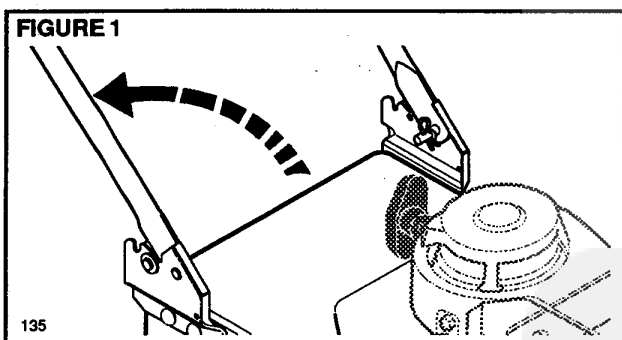
OPTIONAL ACCESSORIES

An optional mulching kit, Model 5712-0000 is available to convert this mower into a mulching lawn mower. See your dealer or distributor for details.

If you don't want to bag grass clippings using the grass catcher, an optional side discharge kit, Model 5710-0100, is available. See your dealer or distributor for details.

ASSEMBLY INSTRUCTIONS

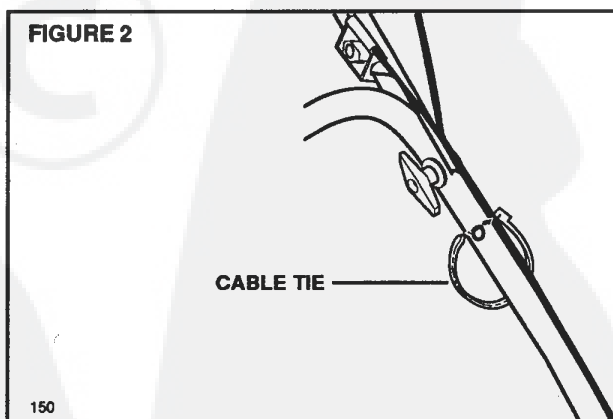
1. Rotate upper handle section forward until handle section aligns with lower handle. Tighten left side tee knob securely, the right side tee knob should be loose to allow for starter rope installation.
2. Grasp handle and rotate towards rear of mower until bottom of lower handle section engages slots in handle brackets (Figure 1).



DANGER

To prevent possible loss of operator control, lower handle section must be securely installed in slot between handle bracket stops and secured with a lock pin. The tee knobs securing upper and lower handle sections must be tightened securely.

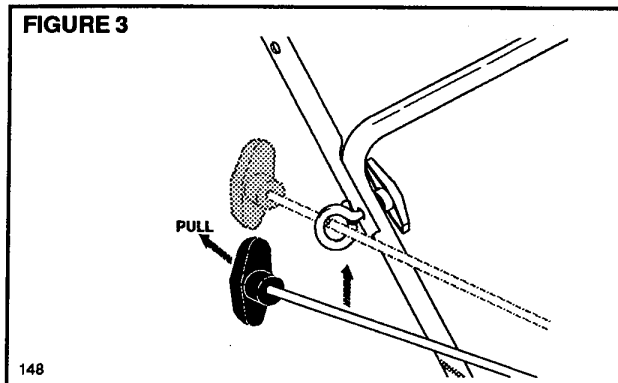
3. Insert cable ties through holes in left side lower handle section and secure throttle control cable and engine/blade control cable to lower handle section. Repeat procedure and secure speed control and drive control cables to right side lower handle section (Figure 2). Cut off excessive cable tie. Check installation, cables must be free of bends or kinks to allow for proper cable operation.



ASSEMBLY INSTRUCTIONS

4. Rotate and hold engine/blade control bail against upper handle to release blade brake. Slowly pull starter handle far enough to allow starter rope to be inserted into loop in rope guide (Figure 3). Tighten tee knob securing rope guide to handle.

FIGURE 3



GRASS CATCHER ASSEMBLY



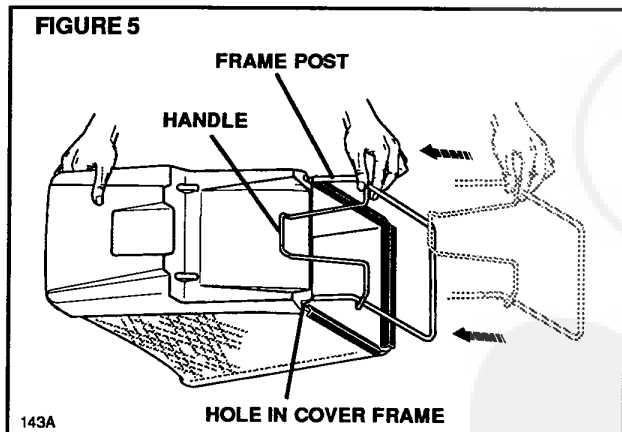
DANGER

Under normal use, grass bag material is subject to deterioration and wear. Check grass bag often and replace when necessary. A weakened or inferior grass bag may allow objects to pass through, causing injury.

The grass catcher is assembled except for front frame. To assemble front frame to grass catcher, do following:

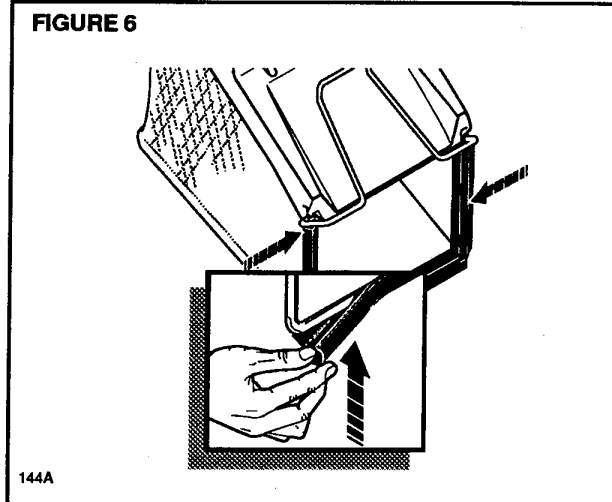
1. Insert frame posts into ends of tube. **NOTE:** Tube was preassembled inside catcher top and bag (Figure 5).

FIGURE 5



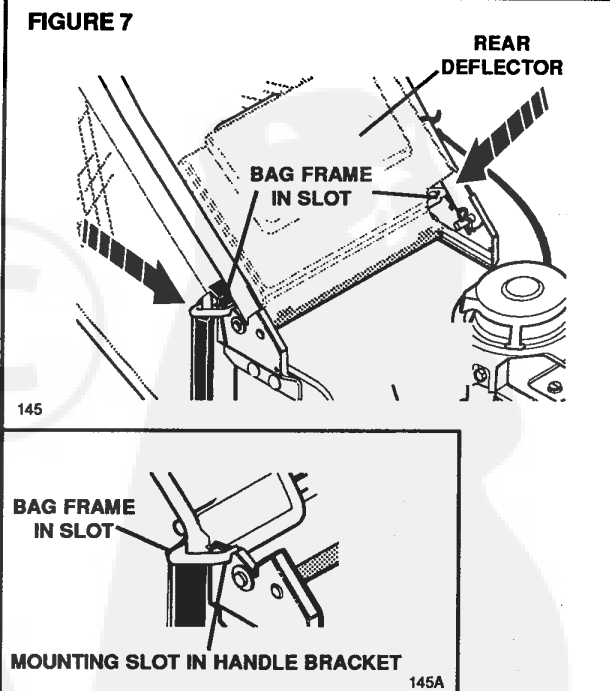
2. Secure bag to frame by spreading apart plastic extrusions on bottom and sides of bag and then pressing or rolling extrusions onto frame (Figure 6).

FIGURE 6



4. To attach bag assembly to mower: Raise rear chute deflector. Grasp bag assembly by handle and insert bag frame into mounting slots in handle brackets (Figure 7). Be sure frame is securely seated into slots in handle brackets (inset Figure 7). To remove bag assembly: Raise chute deflector, grasp bag handle and lift upwards.

FIGURE 7



DANGER

DO NOT operate mower without rear chute deflector, or grass catcher assembly properly installed on mower.

STARTING INSTRUCTIONS

Service Engine

1. Make sure spark plug is installed and spark plug wire is attached.
2. Fill crankcase with oil. See **Engine Operation and Maintenance Manual** for proper specifications and procedures.
3. Remove fuel cap, insert funnel and fill tank with fresh lead- free gasoline having a pump posted rating of 77 octane or higher. Low lead or regular grade leaded gasolines are acceptable. Reinstall fuel cap and wipe off any spilled gasoline.

NOTE: DO NOT MIX OIL WITH GASOLINE. Fuel container should be clean and free of rust or other foreign material. Do Not use gasoline that has been stored in fuel container for long periods of time.



DANGER

Gasoline is extremely flammable and highly explosive under certain conditions. Fill fuel tank outdoors, do not smoke or allow open flame near mower while filling fuel tank. Never refill fuel tank when engine is running or hot. Immediately wipe up any spilled gasoline before attempting to start engine.

Starting Engine (Figure 8)

IMPORTANT!! MOWER WAS SHIPPED WITH LITTLE OR NO OIL IN ENGINE CRANKCASE. OIL MUST BE ADDED PRIOR TO STARTING ENGINE. SEE ENGINE OPERATING AND MAINTENANCE MANUAL FOR SPECIFICATIONS AND PROCEDURES.

1. Place throttle control lever in **START** or **CHOKE** position. **NOTE:** Do not use choke to restart a warm engine after a short shutdown.
2. Pull engine/blade control bail up against top handle. **NOTE:** Engine will not start unless bail is held firmly against top handle.
3. Grasp recoil starter handle and pull sharply to start engine.
4. After engine starts, place throttle control lever in desired position. **NOTE:** For best mowing results, place throttle control lever at or near (**FAST**) position.
5. Pull traction/drive control bail up against top handle to engage self-propelling traction drive. Release bail to disengage self-propelling traction drive.
6. To stop engine, release engine/blade control bail. **NOTE:** If engine continues to run, see your service dealer.



DANGER

Blade is rotating when engine is running (or being started), keep hands and feet away from underside of mower housing to prevent injury.



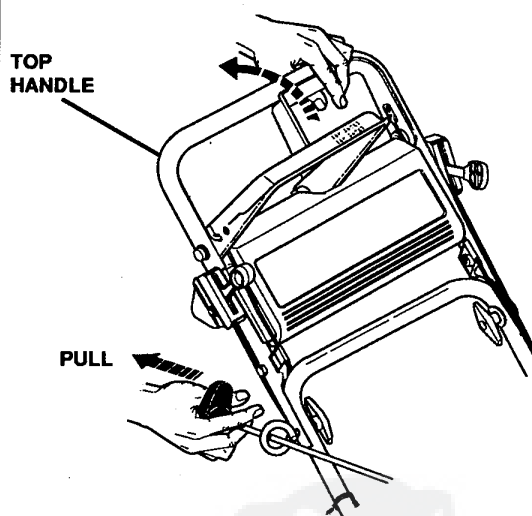
DANGER

Engine exhaust contains **CARBON MONOXIDE**, an **ODORLESS** and **DEADLY GAS**, never run engine indoors, or in an enclosed poorly ventilated area where fumes may accumulate.

Do not allow hands, feet, hair or any loose clothing to contact any moving parts on engine or mower.

To prevent a severe burn - temperature of muffler and nearby areas may exceed 150° F - avoid contact with these areas.

FIGURE 8



OPERATING INSTRUCTIONS

OPERATIONAL CONTROLS

Know your mower controls, and their functions. Do not operate mower until you (or any other operator) have carefully read and understood **SAFETY INSTRUCTIONS** on page 2 of this manual.

Throttle Control - Used to control engine speed. Mounted on left side of upper handle section. Control cable is pre-assembled to throttle control and engine.

Engine/Blade Control Bail - Used to release or apply flywheel brake system when starting or stopping engine.

Traction/Drive Control Bail - Used to engage or disengage self-propelling traction drive.

Speed Control - Used to select forward speed range from 2.0 to 3.3 MPH.

Recoil Starter Handle - Used to start engine. Mounted on right side of mower handle to position operator in "safe" zone when starting mower.



DANGER

To prevent injury, keep feet, hands, hair and loose clothing away from any moving parts on engine or mower when performing adjustments or maintenance that requires engine to be running.

CUTTING HEIGHT

A selection of seven different cutting heights are available, which represent a cutting range from approximately 1 inch to 3-1/2 inches. **NOTE:** These are approximate and may vary with soil conditions, height and type of grass being mowed.

The control handle has an indicator scale which is numbered 1 through 7, with lowest cutting height position being number 1 setting. Cutting height is determined by aligning tab on indicator with desired number or line on indicator scale. All four wheels are controlled by a single height adjust lever. Each number or line on indicator scale represents a cutting height change of approximately 3/8 inch.

TO CHANGE CUTTING HEIGHT (Figure 9)

1. Grasp height adjust lever and squeeze lever towards control handle to release from previous setting. **NOTE:** Lift control handle and lever up to increase cutting height or push downwards to decrease cutting height.

2. Raise or lower mower housing and observe movement of location tab on indicator scale. When tab aligns with desired cutting height mark on indicator scale, release lever.

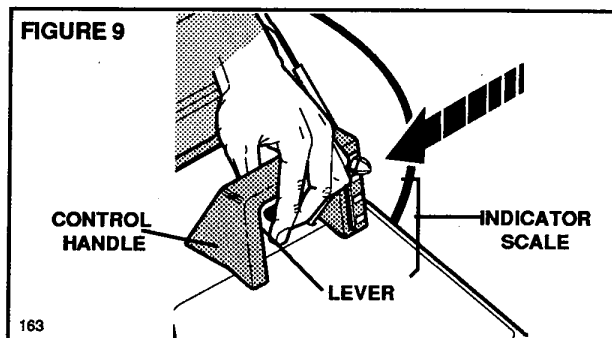
3. Push handle downward to assure adjusting lever engages properly.



DANGER

Keep hands and/or feet away from bottom edge of mower housing when changing cutting height. They may be "pinched" between housing and ground.

FIGURE 9



DANGER

To prevent accidental starting of engine, disconnect spark plug wire before performing cutting height adjustment.

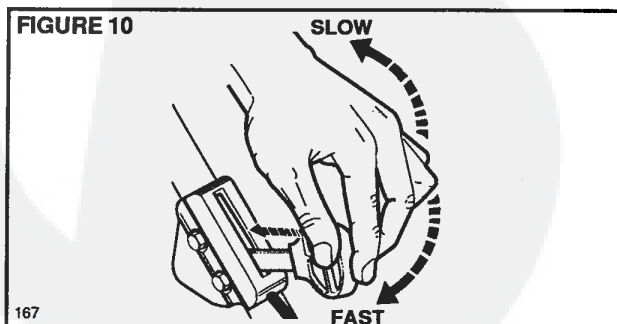
MOWING TIPS

Change mowing pattern slightly each time you mow; the grass will grow straighter, thicker and cut better. Overlap each cutting swath to prevent accumulating grass clippings more heavily in some areas. Raise cutting height when mowing thick lush grass, lower height and repeat mowing same day or within a few days to improve lawn's appearance. Walk, never run, when mowing. Exercise extreme care when mowing on hills or slopes. Always mow across face of slopes, never up and down. To prevent possible loss of mower control, be sure of your footing, always stay in control. Push, never pull mower while cutting, pulling mower will rip or tear grass. Mow only dry grass, wet grass may build-up inside mower housing, decreasing mower efficiency. Place engine throttle control in fast position when mowing, this provides maximum utilization of mower design. Always clean under mower housing after each use.

CHANGING GROUND SPEED

The variable five speed transmission allows you to select five forward ground speeds of your mower from 2 to 3.3 MPH. To change or select desired speed position; grasp speed control lever and press downward and move lever forward or backward to desired speed position (Figure 10). Release lever to engage detent in control. **NOTE:** Do not change speeds with traction/drive bail engaged, release bail shift to desired speed then engage bail.

FIGURE 10



ADJUSTMENTS

SPEED CONTROL CABLE



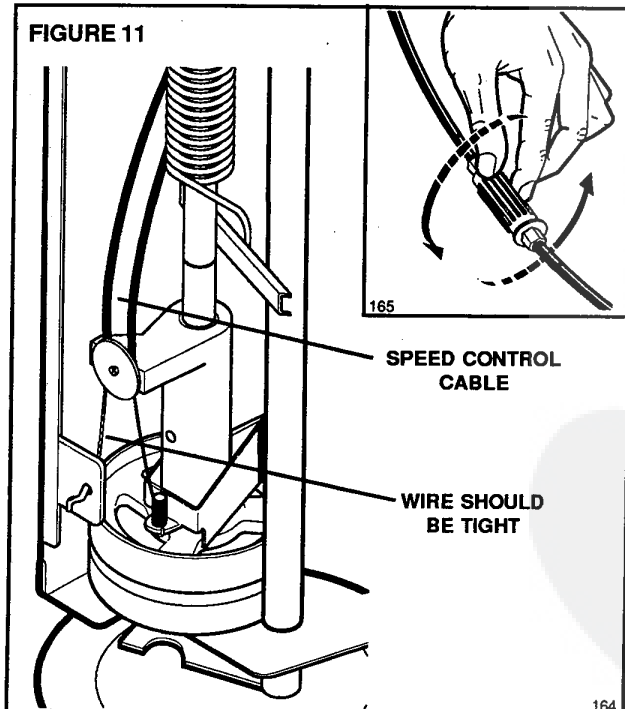
DANGER

To prevent accidental starting of engine, disconnect spark plug wire.
When tipping mower on side; to prevent fuel or oil leakage from engine, remove oil/fill cap and fuel cap. Cover the openings with plastic wrap and reinstall caps. Tighten caps securely.

NOTE: Speed control cable is adjusted and tested at the factory and should not require additional adjustment. If the cable has been replaced or for any other reason adjustment is necessary proceed as follows:

1. Place speed control lever in lowest speed setting.
2. Tip mower so right side is facing upwards. Turn speed control cable adjuster in a counter-clockwise direction (from operator's position) until inner wire is tight (Figure 11).
3. Shift speed control lever into any higher speed positions and then back into lowest speed position to assure control lever engages into low speed detent.
4. If lever does not engage: turn cable adjuster slightly clockwise and repeat step 3 until proper engagement is obtained.
5. Place mower in operating position and remove plastic wrap from openings, reinstall caps and tighten securely.

FIGURE 11

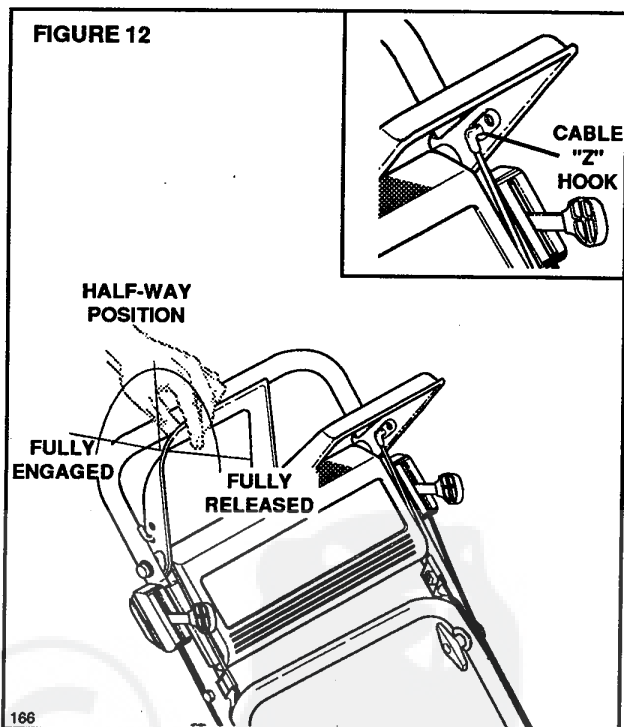


DRIVE CONTROL

NOTE: Drive control cable requires periodic adjustment due to cable stretching thru normal usage and/or wear to friction drive wheel.

1. Stop engine and disconnect spark plug wire.
2. Slowly pull traction/drive control bail towards upper handle while at same time pulling mower backwards. The rear wheels should stop rotating when control bail is approximately half-way between fully engaged and fully released position (Figure 12).

FIGURE 12



3. If distance traction/drive control bail moves is more than half-way before rear wheels stop rotating, adjust drive control cable by rotating adjuster in a counter-clockwise direction (inset Figure 11) until proper engagement point (half-way position) is obtained.

4. If cable cannot be adjusted any further by using cable adjuster, then remove cable from hole in traction/drive control bail and reinstall cable "Z" hook end into upper hole in control bail (inset Figure 12). Repeat step 3 and readjust cable adjuster as required.

CARBURETOR

Carburetor has been pre-set at factory for best performance and should not require adjustment. See **Engine Operation and Maintenance Manual** for adjustment procedure.

MAINTENANCE

BLADE

Blade must be sharp and well balanced. A dull blade will rip or tear grass, creating an uneven appearing cut lawn. An unbalanced blade will cause excessive vibration and possible engine damage. Stop engine and remove spark plug lead wire. Inspect mower for damage if experiencing any unusual vibration. Replace blade, when necessary, with manufacturer's replacement blade. Refer to **Repair Parts**.

BLADE REMOVAL/INSTALLATION

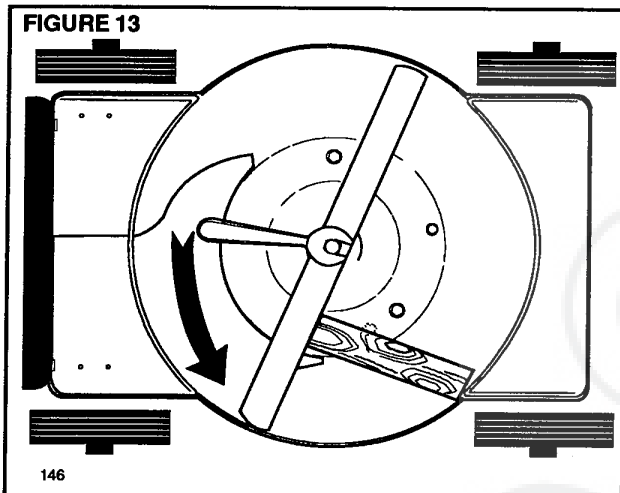


DANGER

DO NOT handle blade with bare hands. Wear gloves or wrap blade with a rag or other material to prevent personal injury when removing, sharpening or installing blade.

1. Disconnect spark plug wire.
2. Remove gas from fuel tank or seal fuel tank to prevent fuel leakage by removing fuel cap and covering tank opening with a piece of plastic (such as kitchen wrap), reinstall fuel cap.
3. Position mower so right side is facing upwards.
4. Place a board between blade and mower housing (Figure 13). Using a wrench, remove blade screw (turn screw counterclockwise) and remove blade.

FIGURE 13



5. Inspect blade for wear, sharpness, balance and damage. Replace as required with manufacturer's replacement blade (see **Repair Parts**).

6. Install blade components in sequence (see **Repair Parts**) and tighten blade mounting screw securely. If a torque wrench is used torque screw to 30-35 foot pounds. **NOTE:** Reinstall blade with curved (bent) ends facing upwards toward mower deck. The bent portion of the blade provides the proper "lift" allowing blade to cut the grass.

BLADE SHARPENING AND BALANCING

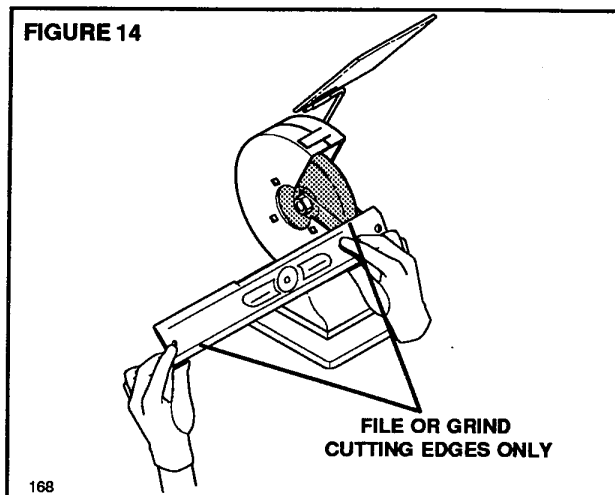
1. Sharpen blade using a file or grinder. Sharpen cutting edges only (Figure 14).



DANGER

Wear eye protection while grinding blade to prevent possible injury.

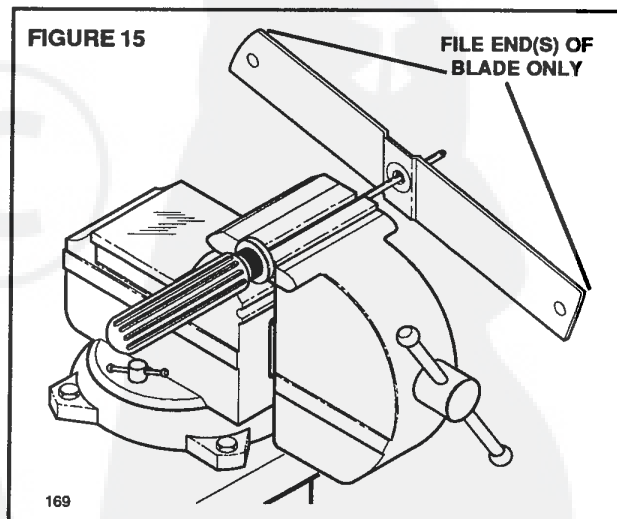
FIGURE 14



FILE OR GRIND
CUTTING EDGES ONLY

2. Check blade balance by inserting center hole in blade over a nail or screwdriver clamped horizontally in a vice. If either end of blade rotates downward, grind or file that end until blade remains in horizontal position (Figure 15).

FIGURE 15

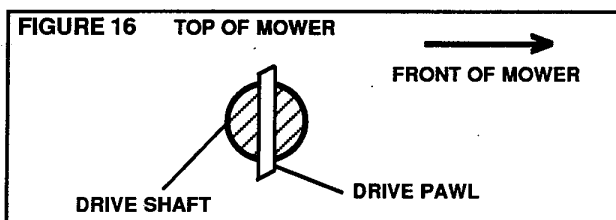


FILE END(S) OF
BLADE ONLY

MAINTENANCE

CLEANING DRIVE WHEELS

When rear wheels do not rotate freely, remove hubcaps, locknuts, washers and wheels. Remove grass clippings or other debris that might become lodged between wheels and dust covers. **NOTE:** If you remove pinions, make sure to reassemble in same position they were removed, with pinion marked "R" on right side and one marked "L" on left side. Clean and oil pawl cavity in pinions and drive pawls if necessary. See Figure 16 for correct assembly of drive pawls.



SINGLE POINT HEIGHT ADJUST SYSTEM LUBRICATION

At least once a season or any time the height of cut change becomes difficult, clean and lubricate height adjust system as follows:



DANGER

Disconnect spark plug lead wire to prevent accidentally starting engine. Remove fuel from the fuel tank or seal tank to prevent fuel leakage by removing fuel cap and cover tank opening with a piece of clean plastic (such as kitchen wrap). Reinstall fuel cap.



DANGER

Disassembly and service of height adjust system should be performed only by a trained technician. The large spring is under a very high load. User injury could result.

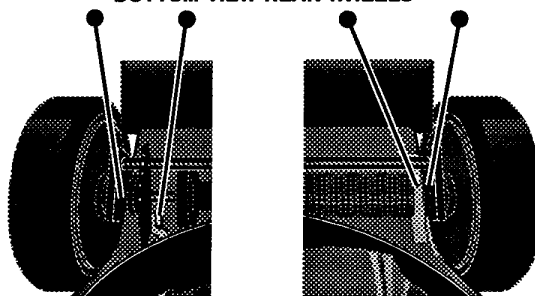
Clean underside of mower thoroughly and let it dry. Spray points (Figure 16A) with WD-40 or a similar product. Blow or wipe parts clean. Spray lubricant on pivot points.

BELT REPLACEMENT

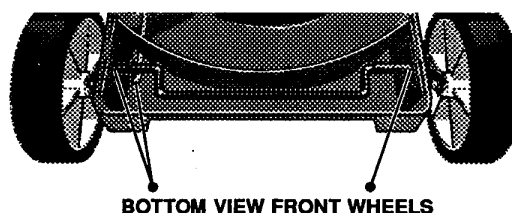
1. Raise rear deflector and prop open. Remove two screws holding rear plate cover and unhook belt tension spring (Figure 17).
2. Remove nut, flat washer, belt guide, flat washer, spring and step spacer from drive pulley (Figure 18).
3. Turn mower on its left side and remove belt.

FIGURE 16A

BOTTOM VIEW REAR WHEELS

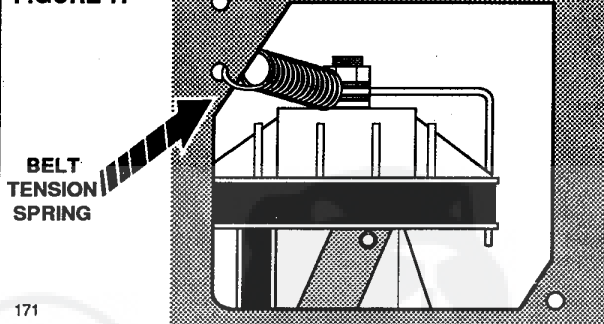


● LUBRICATION POINTS



WB R,D. BTM. V.W. LUBE

FIGURE 17



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DANGER

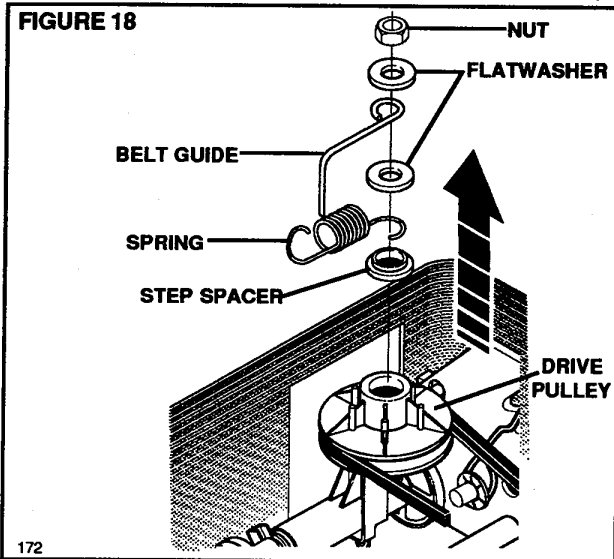
TO PREVENT INJURY, DO NOT ATTEMPT TO REMOVE THE LARGE SPRING.

4. Install a new belt on both pulleys and place mower back in upright position.
 5. Reinstall step spacer, spring, flat washer, belt guide, flat washer and nut (Figure 18). Do not tighten nut completely.
 6. Rotate belt guide so there is a gap of .020 -.050" between belt guide and V-belt with shifter lever in lowest speed position (Figure 19).
- NOTE:** A dime is approximately .045" thick.
7. Tighten nut securely while holding belt guide in position.
 8. Re-hook belt tension spring and replace cover.
 9. Lower rear deflector and reinstall grass catcher.

MAINTENANCE

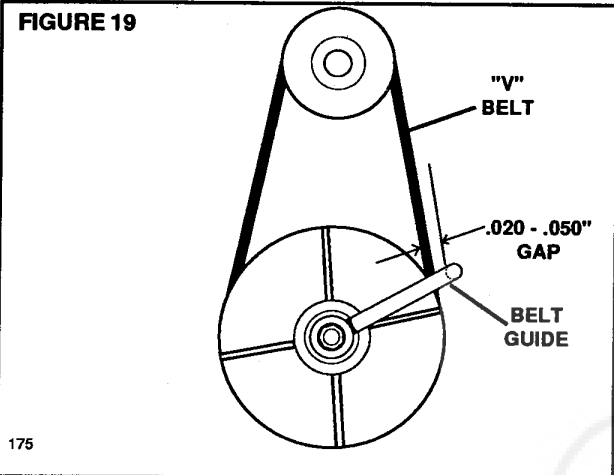
BELT REPLACEMENT (Cont)

FIGURE 18



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FIGURE 19



175

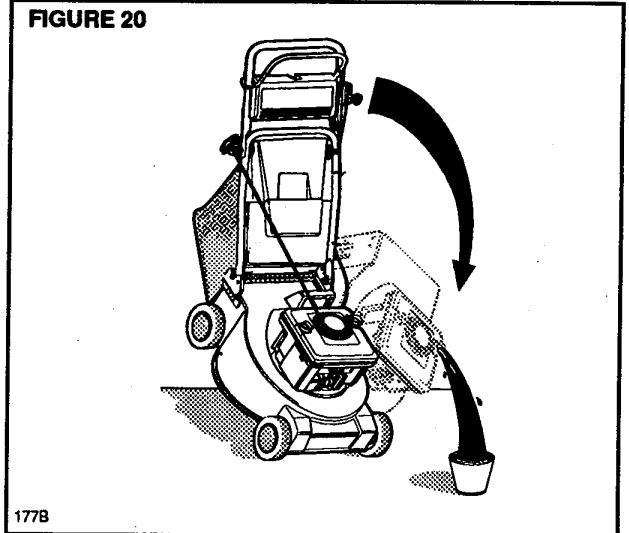
CRANKCASE OIL (Figure 20)

Change crankcase oil after first five (5) hours of operation and every twenty-five (25) hours thereafter. Check oil level before each use, add oil as required.

1. Disconnect spark plug lead wire.
2. Remove gas from fuel tank or seal fuel tank to prevent fuel leakage by removing fuel cap and covering tank opening with a piece of plastic (such as kitchen wrap), reinstall fuel cap.
3. Position a suitable container in front of mower.
4. Remove oil fill/drain cap.
5. Lift rear of mower and tilt forward allowing oil to drain into container. Dispose of used oil properly.
6. Return mower to operating position and refill crankcase with oil as specified in **Engine Operation and Maintenance Manual**.
7. Install oil fill/drain cap and tighten securely.

8. Fill fuel tank with fuel.
9. Reconnect spark plug lead wire.

FIGURE 20



177B

⚠ DANGER ⚠

To prevent injury, keep feet, hands, hair and loose clothing away from any moving parts on engine or mower when performing adjustments or maintenance that requires engine to be running.

AIR FILTER

Clean every twenty-five (25) hours of operation under normal operating conditions, more often under dusty conditions. To clean or replace air filter, see **Engine Operation and Maintenance Manual**.

⚠ DANGER ⚠

Never operate engine without air filter installed. A defective air filter can result in loss of engine power, create excessive wear and/or damage to internal engine components by allowing dirt or dust to enter engine through carburetor. Replace a damaged or dirt clogged air filter (see **Engine Operation and Maintenance Manual**).

SPARK PLUG

Remove and check periodically for excessive carbon deposits and proper plug gap. Replace spark plug after fifty (50) hours of operation or at end of each mowing season for best engine performance. Set spark plug gap at the recommended setting of .030 inch.

⚠ DANGER ⚠

Under normal use, grass bag material is subject to deterioration and wear. Check grass bag often and replace when necessary. A weakened or inferior grass bag may allow objects to pass through, causing injury.

MAINTENANCE

WHEEL BEARING CHANGE (FIG. 21)

When the wheels become too loose on their axles replace wheel bearings.

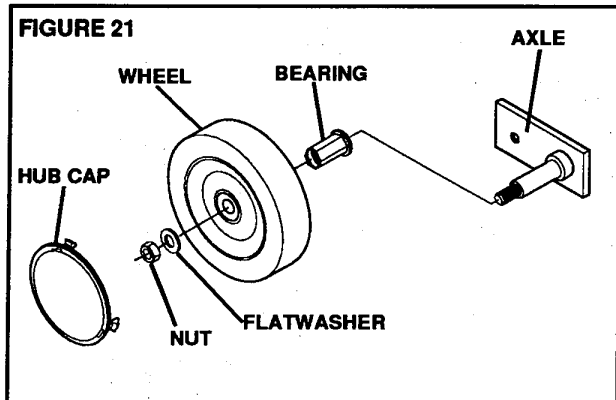
Place the mower on a couple of 2x4's in order to free the wheels. (or turn the mower on it's side after sealing the gas tank and the oil filled opening).

Remove hub caps, lock nuts and washers then remove wheels from axles.

Push out bushings from the outside of the wheels. Install new bushings from the inside of wheels.

Clean the axles thoroughly.

Reinstall wheels, washers, locknuts and hubcaps.



PROPELLING SYSTEM TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTION
Intermittent Slippage	Wet Friction Wheel	Do not mow very wet grass
No propelling at all	V-Belt off one or both pulleys	Reinstall the old belt or, if the old one is worn out or broken, a new one, after cleaning the pulleys' grooves
	Misadjusted drive cable	Readjust the drive control cable
	Worn Friction Wheel	Readjust the drive control cable
	Drive pawls and/or pinions worn out	If out of cable adjustment, let your dealer replace the friction wheel Replace pawls and/or pinions (see Page 10). Check also the wheel's internal gear and replace wheel if necessary.
Mower does not run straight	Worn out pawl and/or worn out pinion's cam on the side the mower is turning to.	Replace pawl and/or pinion (see Page 10). Check also the wheel's internal gear and replace wheel if necessary.
Speed control lever will not engage into the lowest gear ("1").	Speed control cable out of adjustment	Readjust the cable (See page 8).
Drive speed will not change after shifting the speed control lever.	Dirt accumulation on pinion shaft near journal bearings	Clean thoroughly the entire area. NOTE: Do Not lubricate the shaft. The bushings are lubricated for life.

STORAGE

Prepare mower for storage at end of mowing season or if mower will not be used within (30) thirty or more days.



DANGER

Handle gasoline carefully. It is highly flammable, careless use could result in serious fire damage to your person and/or property.

Drain fuel into an approved container outdoors, away from open flame.

Never store mower with fuel in tank indoors or in a poorly ventilated enclosure, where fuel fumes may reach an open flame, spark or pilot light on furnace, water heater, clothes dryer, etc.

A yearly check-up or tune-up by a qualified service technician will assure that your mower will provide maximum performance next season.

ENGINE

1. Drain fuel from fuel tank into an approved container.
2. Start engine, run until fuel tank and carburetor are out of fuel.

NOTE: Gasoline, if permitted to stand unused for an extended period of time (30 days or more), may develop gummy deposits which may affect the carburetor and can cause engine failure.

3. Remove spark plug and pour one (1) ounce of engine oil into cylinder through spark plug hole. Pull starter handle several times to distribute oil which will lubricate internal parts during storage.

4. Inspect condition of spark plug and check for proper gap. Replace as required. Reinstall spark plug, leave spark plug lead wire disconnected.

5. Drain oil from engine crankcase and refill (see **Engine Operation and Maintenance Manual**).

MOWER

1. Clean mower thoroughly.
2. Inspect for worn and/or damaged parts, replace as required. Check and tighten all screws and nuts.
3. Inspect blade. Sharpen, check balance, or replace if required.
4. Store mower in normal operating position.

NOTE: DO NOT store mower in a position where oil in crankcase could drain into cylinder head, doing so may cause a service problem.

NOTE: Handle may be folded over engine to reduce storage space required.

To Fold Handle: (Figure 22)

1. Grasp near bottom of lower handle section and push inward until lower handle section is free of handle bracket upstops, rotate handle section forward and rest on front of mower. Be careful not to kink or pinch cables.

To Return Handle To Normal Operating Position: (Figure 23)

1. Rotate handle section towards rear of mower until bottom of lower handle section engages slot in handle brackets. Be careful not to pinch or kink cables.



DANGER

To prevent loss of operator control, lower handle section must engage slot between up and down stops in handle brackets.

FIGURE 22

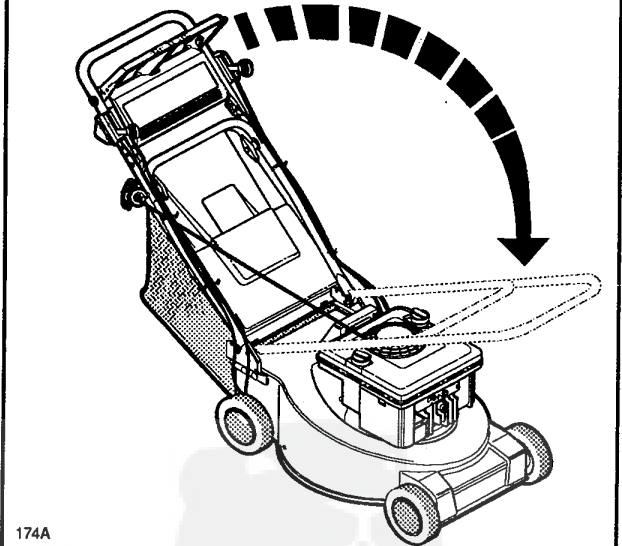
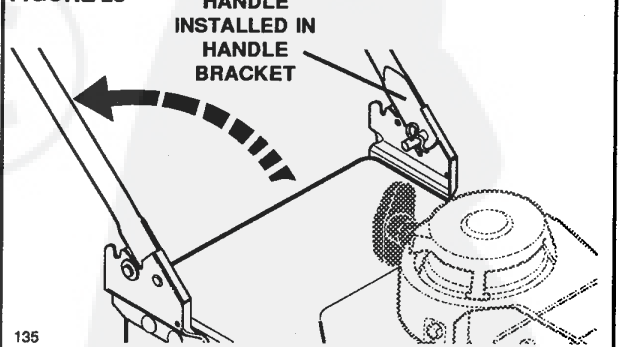
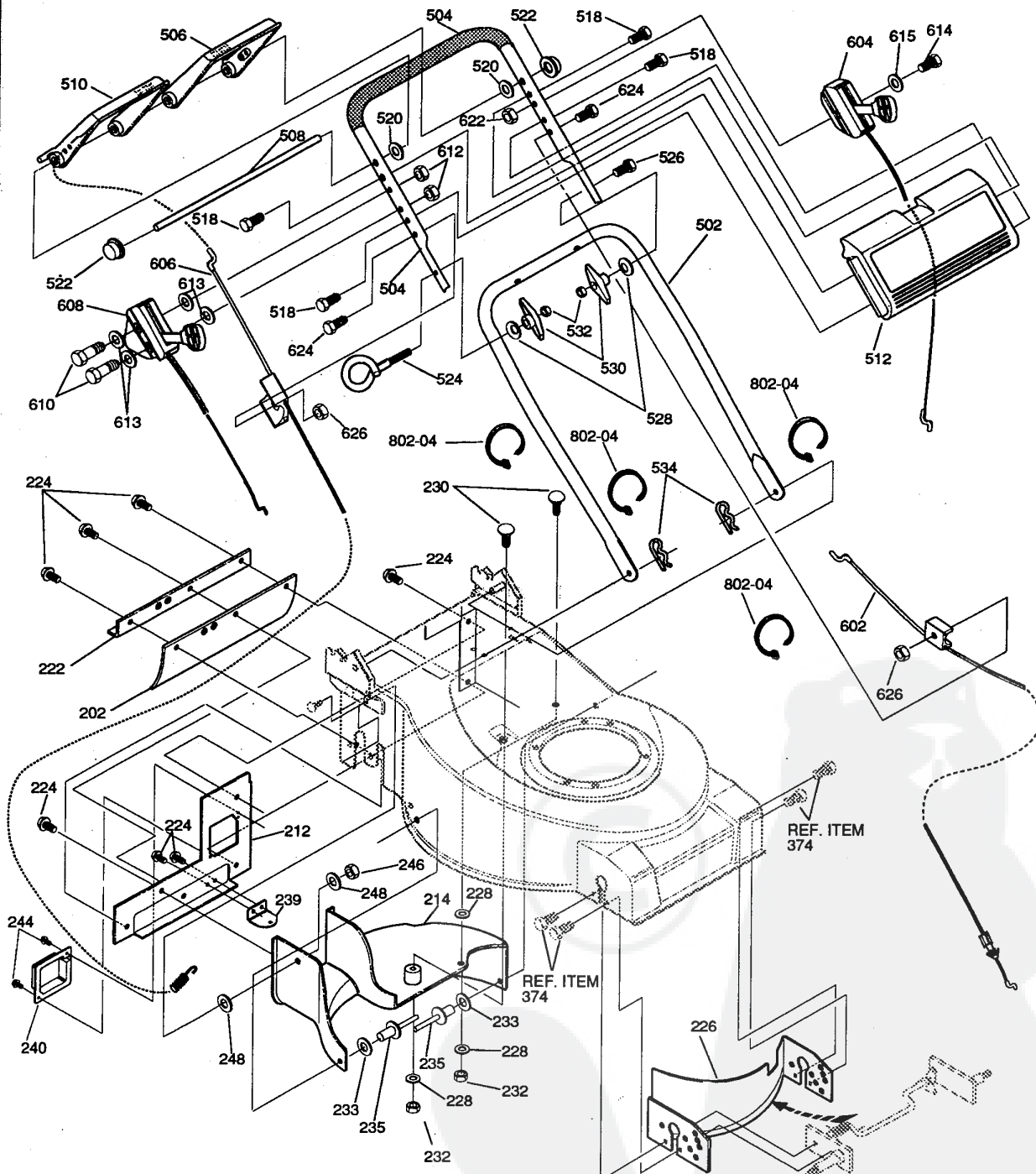


FIGURE 23



MODEL C2105-500 REPAIR PARTS

NOTE: ALWAYS USE ORIGINAL EQUIPMENT PARTS. Use of service replacement parts other than original equipment parts may void your warranty.



NOTE: REPLACEMENT PARTS MAY NOT BE AVAILABLE IN MATCHING COLORS.

MODEL C2105-500 REPAIR PARTS

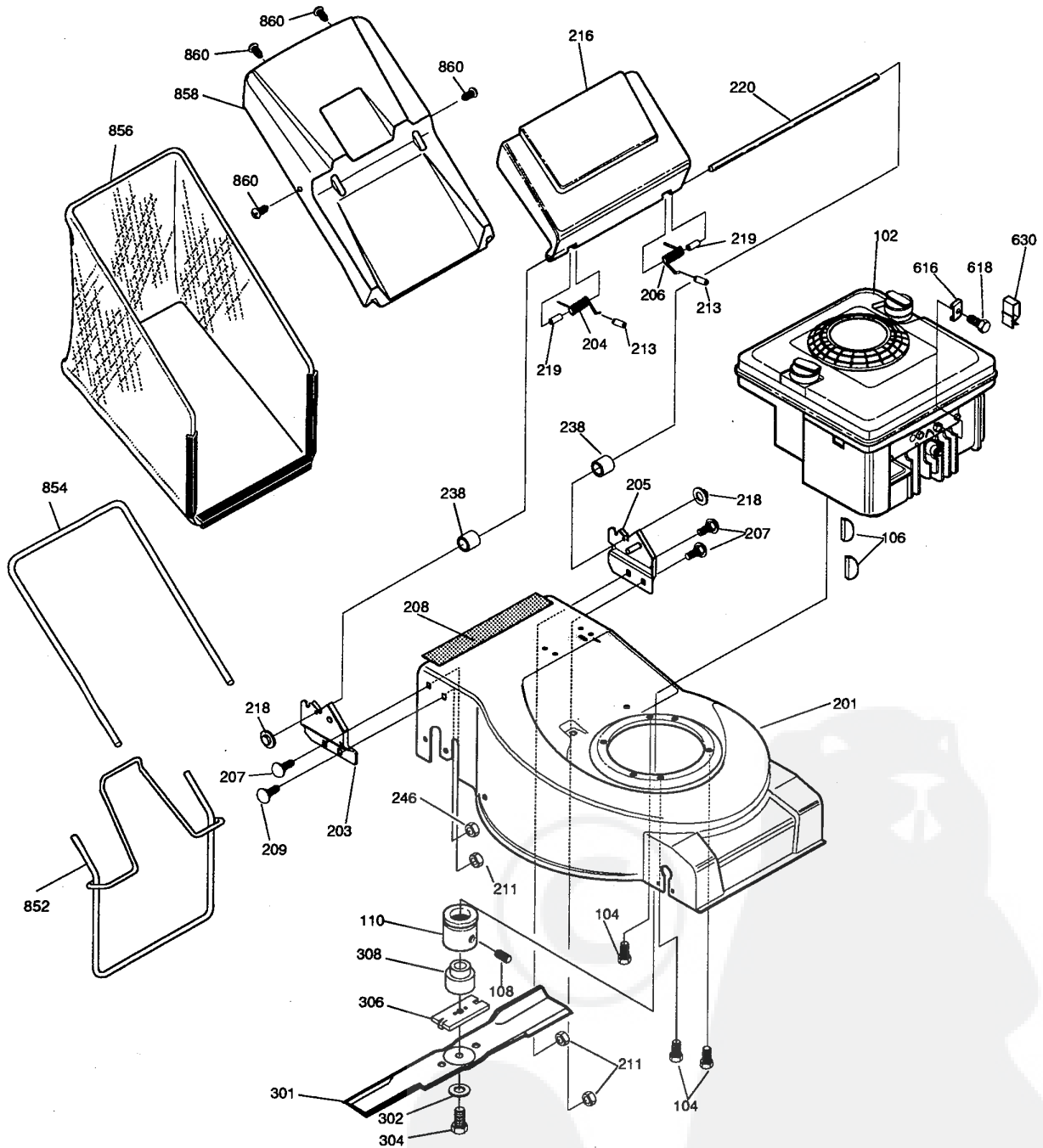
Key No.	Part No.	Description
202	308391	TRAILING SHIELD, REAR
212	314472-853	PLATE, REAR FRAME
214	312813	BAFFLE, REAR
222	314444-853	BRACKET, TRAILING SHIELD
224	995346	* SCREW, 1/4-20 X .50 WAHTAP
226	308675	BAFFLE, FRONT 21"
228	1501	WASHER, FLAT .203 X .56 X .040
230	126193	BOLT, 10-24 X .625 CARR
232	997316	* NUT, #10-24 REGHEXCTRLK
233	53321	WASHER, FLAT .196 X 1.00 X .09
235	322594	RIVET, POP, .187 X .595
239	314189	BRACKET, SPEED CONTROL
240	314474	COVER, REAR PLATE
244	35055	* SCREW, 10-24 X .50 SLHWATAP
246	41529	NUT, 3/8-16 HXCTRLKJAM
248	6051	WASHER, FLAT .383 X .88 X .06
502	308389-853	HANDLE, LOWER
504	318637	ASSEMBLY HANDLE, UPPER (SEE NOTE)
506	314122	HANDLE, ENGINE CONTROL
508	314027	ROD, PIVOT CLUTCH HANDLE
510	313322	HANDLE, TRACTION CONTROL
512	314765	PANEL, HANDLE
518	425805	SCREW, #10-16 X 1.50 TYPEAB, OVHPH
520	120393	WASHER, FLAT .344 X .69 X .065
522	3535	NUT, PUSH ON CAP .312 OD
524	57257	ROPE GUIDE
526	315288	BOLT, 5/16-18 X 1.75 CUH
528	8728	WASHER, .343ID X 1.0 X .062 FORM
530	57171	KNOB, T
532	120376	* NUT, 5/16-18 REGHEX
534	36368	PIN, HAIR .072 DIA X 1.13 LG
602	314470	CABLE, ENGINE RESTART
604	314216	CONTROL, THROTTLE
606	309939	ACTUATOR CABLE, VARISPEED
608	313561	CABLE, SPEED CONTROL
610	180044	* SCREW, 1/4-20 X 2.00 HHC
612	271172	* NUT, 1/4-20 REGHEXKEPS
613	120385	* WASHER, FLAT .250 x .56 x .049
614	54406	* SCREW, 10-24 X 1.50 SLRDMA
615	1501	* WASHER, FLAT .203 x .56 x .040
622	120361	* NUT, #10-24 REGH
624	121913	* SCREW, 1/4-20 X 1.25 HHC
626	120375	* NUT, 1/4-20 REGHEX
802-04	57444	TIE, CABLE
	322268	INSTRUCTION MANUAL C2105-500

(*) Standard Hardware Items - May Be Purchased Locally.

NOTE: Part No. 318637, UPPER HANDLE includes grip installed. The grip is not available separately.

MODEL C2105-500 REPAIR PARTS

NOTE: ALWAYS USE ORIGINAL EQUIPMENT PARTS. Use of service replacement parts other than original equipment parts may void your warranty.



NOTE: REPLACEMENT PARTS MAY NOT BE AVAILABLE IN MATCHING COLORS.

MODEL C2105-500 REPAIR PARTS

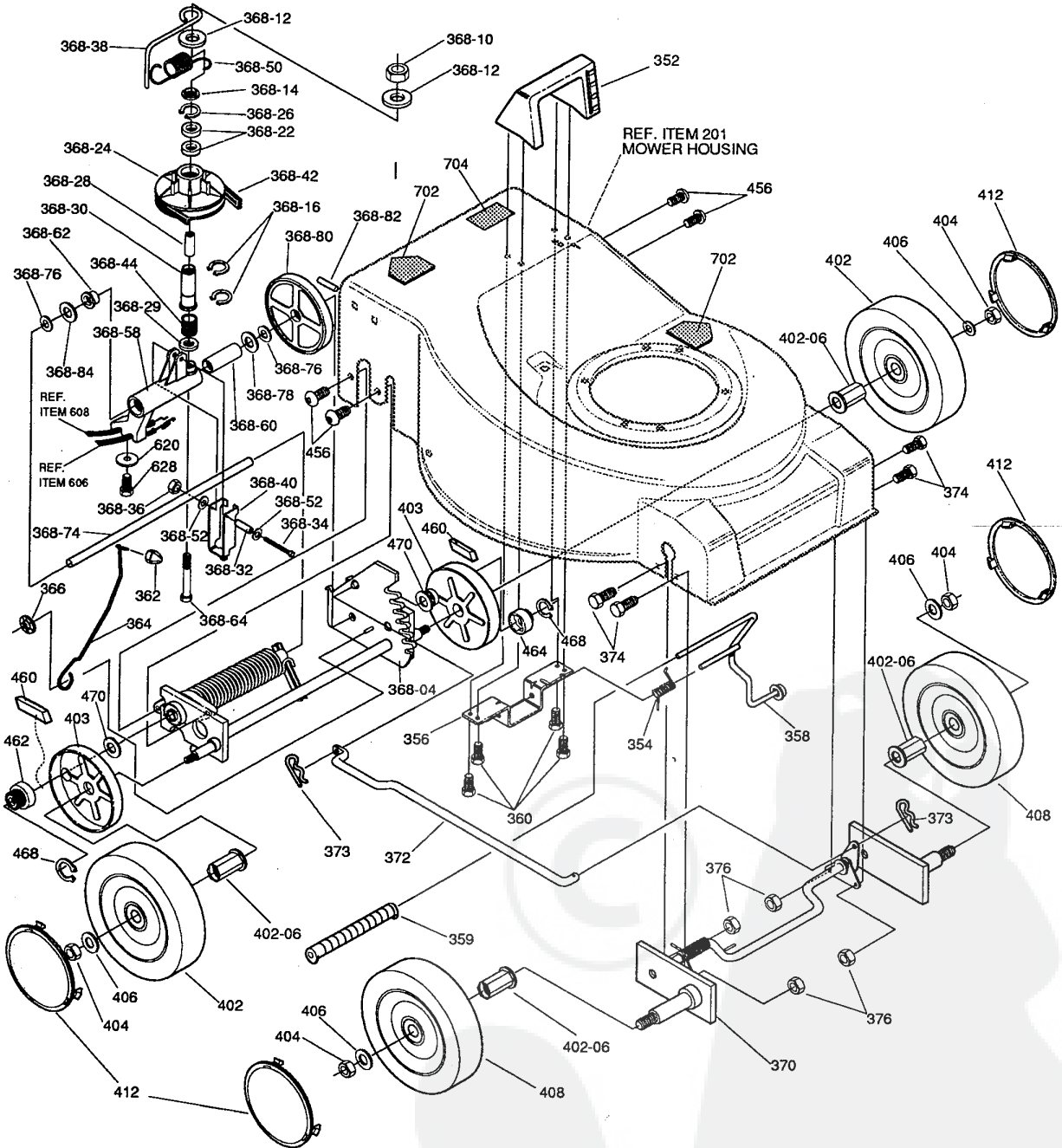
Key No.	Part No.	Description
102	ENGINE	~ SEE ENGINE MANUAL B& S QUANTUM
104	48148	SCREW, 3/8-16 X 1.00 HXWAHD TAP
106	55426	KEY, ADAPTOR
108	102580	SCREW, 5/16-18 X .25 ALHSETCPPL
110	308366	PULLEY, ENGINE 3L
201	306949-860	MOWER HOUSING 21 IN.
203	309416-860	BRACKET, HANDLE, RH
204	309402	SPRING, TORSION CCW
205	309415-860	BRACKET, HANDLE, LH
206	309403	SPRING, TORSION CW
207	57081	BOLT, 3/8-16 X .75 CARR.
208	317481	SEAL, GRASS CATCHER
209	120915	BOLT, 3/8-16 X 1.00 CARR.
211	45905	NUT, 3/8-16 HWDFLK MACK
213	322665	CAP, WIRE
216	314030	DEFLECTOR, REAR CHUTE
218	314276	NUT, PUSH-ON 1/4 DIA.
219	318474	SPACER, SLEEVE
220	312718	ROD, DEFLECTOR
238	312719	SPACER, SLEEVE
246	41529	NUT, 3/8-16 HXCTRLKJAM
301	304504	BLADE, 21" HIGH LIFT
302	120382	WASHER, REGSPTLK .393 X .68 X .10
304	181643	* SCREW, 3/8-24 X 1.50 HHC
306	309214	BLADE ADAPTER
308	310430	BLADE HUB
616	12425	CLAMP, THROTTLE
618	314708	SCREW, 10-32 X .62 SLWAHTAP
630	321520	CLIP
852	314190-853	FRAME ASSEMBLY, CATCHER
854	308570	TUBE, CATCHER
856	308394	BAG, CLOTH CATCHER 21"
858	314029	CATCHER, GRASS UPPER 21"
860	314721	SCREW, 10-16 X 1.75 PHTR

(*) Standard Hardware Items - May Be Purchased Locally.

(~) Contact Engine Manufacturer's authorized service dealer (see Engine Manual) for parts and warranty.

MODEL C2105-500 REPAIR PARTS

NOTE: ALWAYS USE ORIGINAL EQUIPMENT PARTS. Use of service replacement parts other than original equipment parts may void your warranty.



NOTE: REPLACEMENT PARTS MAY NOT BE AVAILABLE IN MATCHING COLORS.

MODEL C2105-500 REPAIR PARTS

Key No.	Part No.	Description
352	313991	HANDLE, HEIGHT ADJUST
354	314151	SPRING, TORSION
356	313727	BRACKET, HANDLE HEIGHT ADJUST
358	323726	LEVER/ROD ASSY, HEIGHT ADJUST
359	315292	GRIP, HEIGHT ADJUST
360	420349	SCREW, 1/4-14 X 1.00 HWHTAP
362	317009	NUT, ACORN SELF THREAD .125 DIA.
364	313730	ARM, INDICATOR
366	315783	NUT, PUSH-ON 5/32 DIA.
368-04	324458-930	REAR AXLE ASSEMBLY
368-10	120376	NUT, 5/16-18 REGHEX
368-12	904983	WASHER, FLAT .328 X .88 X .062
368-14	313924	SPACER, STEPPED
368-16	309437	RING, RET E .50 X .04 TRUARC 5100-66
368-22	49562	BEARING, BALL .669IDX1.575ODX.472
368-24	313955	PULLEY/DISC AND BEARING ASSEMBLY INCLUDES KEY NOS. 368-16,368-22
368-26	318020	RING, RETAINING INTERNAL
368-28	308762	BEARING, SLEEVE
368-29	319618	SPACER
368-30	308381	STUD, PULLEY
368-32	314284	PIN, SPRING 1/4 X 1.375 SLOTTED
368-34	455620	SCREW, #6-32 X 1.62 HHC
368-36	315381	NUT, #6-32 HEXTOPLK
368-38	315481	RETAINER, BELT
368-40	324484	LEVER, VARISPEED ACTUATOR
368-42	322350	BELT, V3L
368-44	309946	SPRING, COMP .975 X 1.00 X .092
368-50	309967	SPRING, BELT TENSION
368-52	131014	WASHER, FLAT .156 X .38 X .049
368-58	318296	JOURNAL (WITH BEARINGS & SCREW))
368-60	314174	BEARING, SLEEVE .50 X .75 X 1.50
368-62	318442	BEARING, FLANGE .500 ID X .750D X 1.250
368-64	54980	SCREW, 5/16-18 X 3.50 HHC
368-74	324442	SHAFT, PINION
368-76	20864	RING, RETAINING
368-78	996418	WASHER, FLAT .506 X .75 X .024
368-80	308379	WHEEL ASSEMBLY - FRICTION
368-82	316786	PIN, DOWEL
368-84	317285	WASHER, FLAT .515 X 1.00 X .048
370	321920-853	FRONT AXLE ASSEMBLY
372	310795	ROD, HEIGHT ADJUST
373	36368	PIN, HAIR .072 DIA X 1.13 LG.
374	180018	SCREW, 1/4-20 X .62 HHC
376	46931	NUT, 1/4-20 WDFL MAC-LOCK
402	319708	WHEEL & TIRE ASSEMBLY-REAR
402-06	314035	HEX BUSHING
403	321553	COVER, DUST
404	1498	NUT, 5/16-18 REGHEXCTRLK
406	35214	WASHER, FLAT .328 X 1.06 X .062
408	319705	WHEEL & TIRE ASSEMBLY - FRONT
412	314140	HUB CAP
456	322017	SCREW, 1/4-20 X .50 TXSOBUHCLK
460	47963	PAWL
462	314036	PINION - RIGHT
464	314104	PINION - LEFT
468	462	RING, RETEX .46 X .04 TRUARC 5100-50
470	319750	THRUST WASHER
620	314756	WASHER, FLAT .203 X 1.50 X .105
628	35055	SCREW, 10-24 X .50 SLHWATAP
702	315514	DECAL, CUT-HAND WARNING
704	316829	DECAL, DANGER

(*) Standard Hardware Items - May Be Purchased Locally.

CONTACT ANY OF THE FOLLOWING DISTRIBUTORS: Parts for: HOMKO - LAWN SCOUT - AMF - TURFMASTER - DYNAMARK - or any other CANADIANA, WESTERN INTERNATIONAL INCORPORATED or NOMA OUTDOOR PRODUCTS INCORPORATED product.

ALABAMA

Automotive Elect. Serv.
415-419 Meridian St.
Huntsville, AL 35801
(205) 539-2131
AL WATS 800-421-1392
*b,c,f,g,h

CALIFORNIA

Billiou's
1343 S. Main
Porterville, CA 93257
(209) 784-4102
CA WATS 800-228-7286
WATS 800-245-5468
FAX (209) 784-4108
(auto)
*b,c,e,f,g,h

COLORADO

Spitzer Ind. Prod.
6601 N Washington
Thornton, CO 80229
(303) 287-3414
FAX (303) 287-0549
(auto)
*b,c,e,f,g,h

FLORIDA

G.L.O. Products Inc.
13201 S. Belcher Rd.
Largo, FL 33643
(813) 530-9723
FL WATS 800-225-5456
FAX (813) 539-8603
(auto)
*c,e,h
Radco Distributors Inc.
4909 Victor St., Box 5459
Jacksonville, FL 32207-0459
(904) 733-7957
FL WATS 800-727-8701
FAX (904) 737-9575
(auto)
*b,c,e,g,h

ILLINOIS

Garmoe Distr. Inc.
2620 N Mannheim Road
Franklin Park, IL 60131
(708) 455-3588
FAX (708) 455-6069
(auto)
*b,c,e,f,g

INDIANA

Thompson Sales & Service
2400 W. Ridge Road
Gary, IN 46408
(219) 980-3282
FAX (219) 980-3283
IN WATS 800-234-1470
*c,f,g,h

IOWA

Bruce Engine
1829 N.W. 86th
Des Moines, IA 50325
(515) 278-5151
WATS 800-747-1829
*b,c,e,f,g,h

KENTUCKY

Auto-Electric
715 W. Hwy 80, Box 671
Somerset, KY 42501
(606) 679-1171
FAX (606) 679-1172
*c,e,f,g,h
Cayce Mill Supply Co.
505 E 1st St.
Hopkinsville, KY 42240
(502) 886-3335
FAX (502) 886-5117
KY WATS 800-242-5296
WATS 800-338-6054
*b,c,f,g,h
Kentucky Engine Service
1003-08 E. Broadway
Louisville, KY 40204
(502) 587-7976
FAX (502) 587-7976
WATS 800-456-1806
*b,c,e,f,g,h

MAINE

Automatic Dist. Inc.
22 Target Industrial Cir.
Bangor, ME 04401
(207) 942-6769
FAX (207) 941-0247
ME WATS 800-423-2238
WATS 800-341-1658

MARYLAND

Center Supply Company
6802 Industrial Dr. #208
Beltsville, MD 20705
(301) 595-0860
FAX (301) 595-0783
*b,c,e,f,g
Kunkel Service Company
6252 Frankford Ave
Baltimore, MD 21206
(301) 377-4008
WATS 800-627-3379
FAX (301) 325-1314
*b,c,e,f,g,h

MICHIGAN

Air Cooled Engine Div.
1116 26th Ave.
Menominee, MI 49858
(906) 863-6332
WATS 800-334-9535
FAX (906) 863-1204
*c,e,f,g,h

MINNESOTA

Hance Distr.
12795 16th Ave. N.
Plymouth, MN 55441
(612) 559-2299
FAX (612) 559-2365
(auto)
*b,c,e,f,g,h

MISSOURI

Gunther's Serv. & Supply
7320 Wornall Road
Kansas City, MO 64114
(816) 523-1952
*a,d,e,f,g,h
Wilson Engine & Parts Inc.
4159 Shoreline Drive
Earth City, MO 63045
(314) 739-1313
WATS 800-873-6722
FAX (314) 739-8767
(auto)
*b,d,e,f,g,h

NEW JERSEY

Power Distributors, Inc.
71 Northfield Ave.
Edison, NJ 08837
(201) 225-4922
FAX (201) 225-2726
*i

NEW YORK

Loegler & Ladd Inc.
3950 Broadway, Box 214
Buffalo, NY 14225
(716) 684-0600
*c,e

Stiefvater Dist.
Clinton Road, Route 12B
New Hartford, NY 13413
(315) 853-5581
FAX (315) 853-5147
NY WATS 800-643-1330
DLR ONLY
*c,e,f,g,h

NORTH CAROLINA

Dixie Sales Co. Inc.
Box 1408
Greensboro, NC 27402
(919) 375-7500
WATS 800-753-4943
FAX (919) 274-2758
*b,e,f,g,h

OHIO

American Power Distr.
2430 Tremainsville Rd.
Box 5815
Toledo, OH 43613
(419) 475-7261
FAX (419) 475-4815 (auto after 5.00 pm)
*b,d,e,f,g,h

Gardner, Inc.
1150 Chesapeake Ave.
Columbus, OH 43212
(614) 488-7951
WATS 800-848-8946
*a,b,d,e,g,h

OKLAHOMA

Original Equipment Inc.
9550 A East 55th Place
Tulsa, OK 74146
(918) 664-4992
WATS 800-645-2031
*a,c,e,f,i

PENNSYLVANIA

Bluemont Co.
11101 Frankstown Road
Pittsburgh, PA 15235
(412) 242-1622
WATS 800-344-1200
FAX (412) 243-5673
(auto)
*b,c,e,f,g,h

SOUTH CAROLINA

Magneto & Electric Service
103 Assembly St.
Columbia, SC 29201
(803) 771-4044
SC WATS 800-922-1118
WATS 800-334-4832
FAX (803) 256-2727
*b,c,e,f,g,h

TENNESSEE

Chilton A/C Engine
319 4th Ave. S.,
Box 150806
Nashville, TN 37201
(615) 254-1634
FAX (615) 242-6618
WATS 800-621-6934
*b,c,e,f,g,h
Ace Dist.
2103 E. Magnolia Ave.
Box 3577
Knoxville, TN 37917
(615) 524-5359
FAX (615) 524-8263
TN WATS 800-332-9904
WATS 800-343-2403
*b,c,e,f,g,h
Meadart Engine of Memphis
4365 Old Lamar
Memphis, TN 38118
(901) 795-4365
WATS 800-338-9379
(OS)
*c,e,g,h

TEXAS

Marr Bros. Inc.
423 E. Jefferson
Dallas, TX 75203
(214) 948-7387
FAX (214) 946-6259
(auto)
*a,d,e,f,g,h
Midland Small Engine Sales
106 Carlton, Box 4215
Midland, TX 79704
(915) 684-5553
*b,d,e,f,g,h

VIRGINIA

Norva Small Engines
7941Wellingford Dr.
Manassas, VA 22110
(703) 369-3387
FAX (703) 369-9788
WATS 800-444-9390
*c,e,f,g,h
RBI Corporation
101 Cedar Ridge Rd.
Richmond, VA 23227
(804) 550-2210
FAX (804) 550-2386
WATS 800-825-8530
*b,c,f,g,h

WASHINGTON

Pacific A/C Engine
4111 Airport Way S.
Seattle, WA 98108
(206) 623-6906
FAX (206) 622-1736
c,e,f,h

WISCONSIN

Praefke A/C Engine
4050 N. 128th St
Brookfield, WI 53005
(414) 781-7010
FAX (414) 781-9546
*c,e,f,g,h
Wiggert Parts Ctr.
219 South, 3rd Street
La Crosse, WI 54602
(608) 784-4715
FAX (608) 784-4736
*c,e,f,g,h

CANADA

Noma Outdoor Prod., Inc.
155 Orenda Rd.
Brampton, Ontario L6W 1W3
(416) 457-1433
*i

Rev. 11/19/91

(*) General Information Codes:

- (a) Advance Payment Required
- (b) Accepts Credit Cards
- (c) C.O.D. okay
- (d) No C.O.D.
- (e) Accessories Available
- (f) Briggs & Stratton dealer or distributor
- (g) Tecumseh/Peerless dealer or distributor
- (h) Foote dealer or distributor
- (i) Dealer sales only, contact for closest dealer.

NOMA

Noma Outdoor Products Inc.

TWO YEAR LIMITED WARRANTY

WALK BEHIND PRODUCTS

For two (2) years from date of purchase by the first consumer for residential use (thirty (30) days commercial use), NOMA Outdoor Products Incorporated warrants that it will replace free of charge, including labor, any original part of any NOMA Outdoor Products Incorporated product found to be defective by any authorized Service Dealer or the factory, except the battery which is warranted for ninety (90) days from date of purchase.

This warranty does not cover engine, transmission, transaxle or differential (these items are covered by their manufacturer's own warranty). This warranty does not cover parts that have failed due to normal wear or parts that have failed subject to misuse or abuse. Transportation of the unit or part to and from an authorized Service Dealer or factory is the responsibility of the owner.

A step by step explanation as to what procedure should be followed for this Warranty is:

1. If a part becomes defective, contact the store where the unit was purchased for the name and address of the authorized Service Dealer nearest to you.
2. If you cannot locate an authorized Service Dealer, write Service Department of NOMA Outdoor Products Incorporated for the name and address of the authorized Service Dealer in your area or call the Service Department at 1-901-422-1690.
3. Return the defective product, along with proof of purchase to such authorized Service Dealer for replacement of any defective part where covered by this warranty.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose are limited to two (2) years from date of purchase. Liability for incidental or consequential damages are excluded.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

NOMA

NOMA Outdoor Products Incorporated

Caller 8000

Jackson, TN 38308-8000

OWNER'S INFORMATION

Record the following information about your unit so that you will be able to provide it in case of loss or theft.

MODEL NUMBER: **C 2 1 0 5 - 5 0 0** (Enter complete 8 digit number from model plate on unit)

PURCHASE DATE: ____ / ____ / ____ SERIAL NO.: ____

DEALER'S NAME AND ADDRESS: _____

CITY: _____ STATE: _____ TELEPHONE: _____