Owner's Operating Service Instruction Manual

10¢

Model No. 136-400A

- ASSEMBLY
- OPERATION
- REPAIR PARTS

26" RIDING MOWER

MTD PRODUCTS INC • 5389 WEST 130th STREET • P. O. BOX 2741 CLEVELAND OHIO 44111

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FORM NO. 770-6150

IMPORTANT

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—READ THE OWNER'S MANUAL.
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. **Keep children and pets a safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine.
6. Disengage power to attachment(s) and stop engine before leaving operator position.
7. Disengage power to attachment(s) and stop engine before making any repairs or adjustments.
8. Disengage power to attachment(s) when transporting or not in use.
9. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. Use care when pulling loads or using heavy equipment.
    A. Use only approved drawbar hitch points.
    B. Limit loads to those you can safely control.
    C. Do not turn sharply. Use care when backing.
    D. Use counterweight(s) or wheel weights when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. Handle gasoline with care—it is highly flammable.
    A. Use approved gasoline container.
    B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
    C. Open doors if engine is run in garage—exhaust fumes are dangerous. Do not run engine indoors.
17. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
18. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
19. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
20. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
21. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
22. Do not change the engine governor settings or overspeed the engine.
23. When using the vehicle with mower, proceed as follows:
    (1) Mow only in daylight or in good artificial light.
    (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
    (3) Shut engine off when removing grass catcher and/or unclogging chute.
    (4) Check blade mounting bolts for proper tightness at frequent intervals.
24. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.
25. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

INDEX

GRASS CATCHER Model No. 195-015A is available as optional equipment for the mowers shown in this manual.

WARNING

The mower should not be operated without the entire grass catcher or chute deflector in place.

NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.
For replacement bags, use only factory authorized replacement bag No. 764-0121.

IMPORTANT

After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

The steering wheel with the necessary hardware are easily assembled to the machine.

TIRE PRESSURE

FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.

ASSEMBLY

NOTE

Reference to right-hand or left-hand side of machine is from the driver's seat facing forward.

STEERING WHEEL ASSEMBLY See figures 1, 2 and 3.

NOTE

Due to vibration during shipment, it is possible that the steering shaft on your unit may have dropped to a position where alignment of parts is difficult. This must be kept in mind during the assembly operation.

1. Check the upper and lower hex bearings, be sure they are seated and in position. See figure 1.

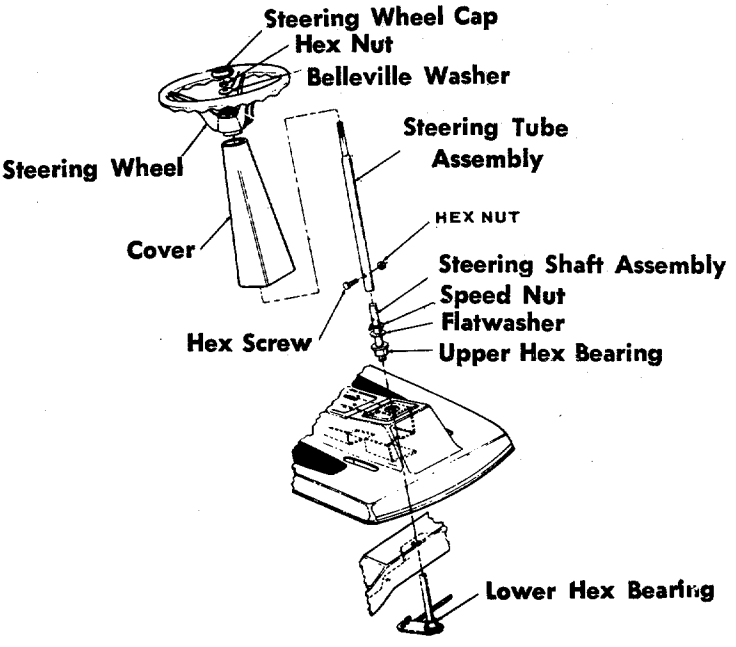

FIGURE 1. STEERING ASSEMBLY

2. Place your hand under the front of the unit, push up on the steering shaft assembly.

3. Hold up the shaft assembly. Place the steering tube assembly on the shaft and start the hex screw through the hole. See figure 2.

4. Fasten the tubing assembly to the steering shaft assembly with hex screw and hex nut provided.

5. Place the cover over the steering tube assembly.

6. Place the steering wheel on the tubing assembly and fasten with belleville washer and hex nut. See figure 1.

7. Again, it may be necessary to raise the steering shaft assembly in order to put the hex nut on.

8. Place the steering wheel cap on by hand. See figure 3.

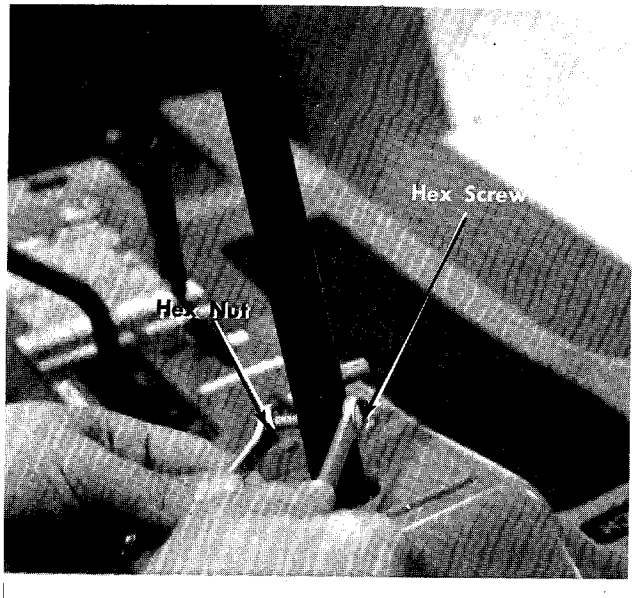

FIGURE 2. STEERING TUBE ASSEMBLY

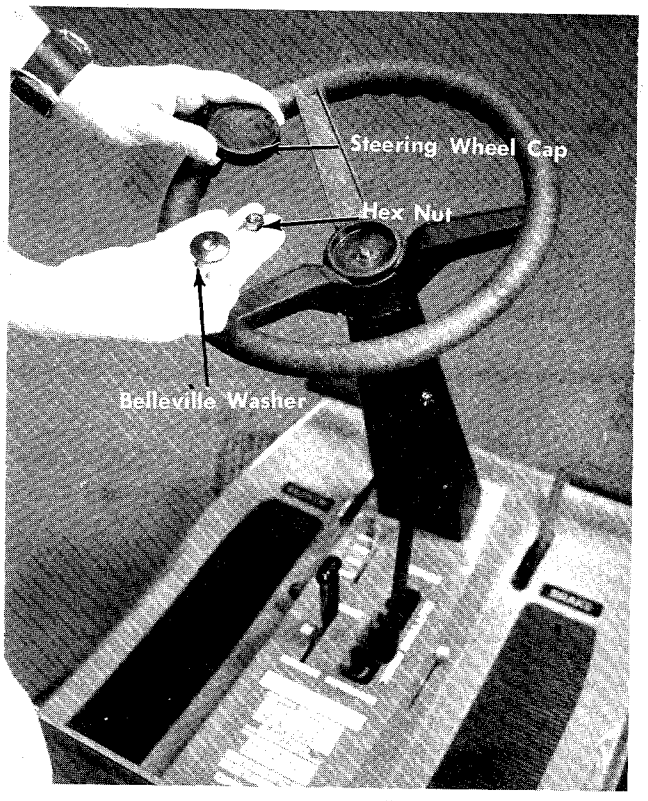

FIGURE 3. STEERING WHEEL ASSEMBLY

CONTROLS **See figures 4 and 7.**

This manual should be read in its entirety before you operate your riding mower. The more you know and understand about the machine and its operation, the better job it will do for you. While reading the manual, compare the illustrations with your mower to familiarize yourself with the locations of various controls, lubrication points, attachments and adjustment features.

Study the operating instructions and safety precautions thoroughly to insure proper functioning of your mower and to prevent injury to yourself and others. Be sure to save this manual for future reference.

THROTTLE CONTROL

The throttle control is used to regulate the engine speed and to activate the choke on the engine. To get the maximum efficiency on cutting, the throttle should be in the FAST position when operating the mower. Pushing the throttle all the way forward, past FAST will choke the engine.

IGNITION KEY

Recoil Model. The key must be turned to the ON position before the recoil handle is pulled to start the engine. Remove the key when the mower is not in use. Turn the key to the left (to the OFF position) to stop the engine.

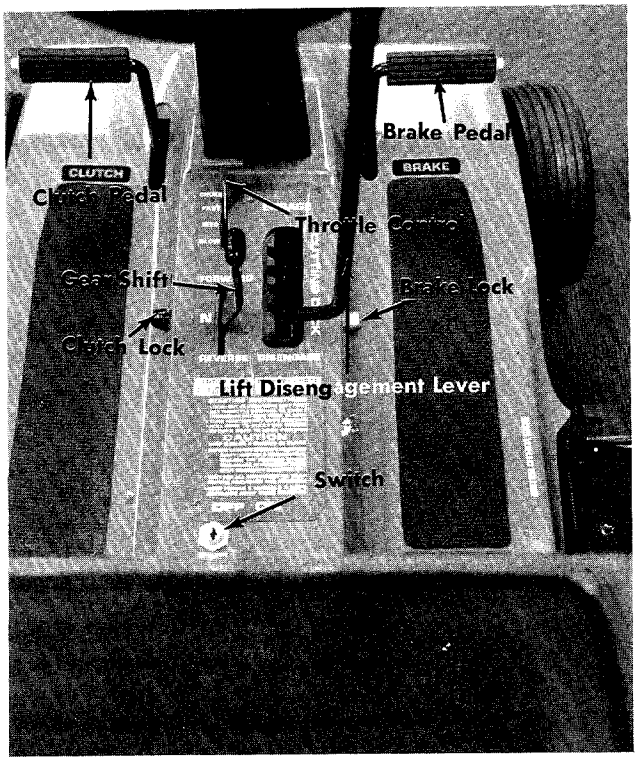

FIGURE 4. CONTROLS

LIFT AND DISENGAGEMENT LEVER

The lift and disengagement lever is used to raise and lower the cutting deck, set the cutting height, and disengage the cutting blades.

Move the lever to the right and move the lever all the way back and lock it to disengage the blades. The lever may be set in any one of the five cutting height positions.

INTERLOCKS (Not Shown)

An interlock safety switch is located on the clutch pedal and the lift and disengagement lever. The clutch pedal must be drpressed down and locked. The lift and disengagement lever must be in the STOP position (all the way back) before the engine can be started. Failure to follow these instructions will prevent starting.

GEAR SHIFT LEVER

The gear shift lever has three positions, FORWARD, NEUTRAL and REVERSE. The clutch pedal must be depressed and the riding mower must not be moving when shifting gears. Do not force the shift lever. Release the clutch pedal slightly to line up the shifting collar in the transmission. Then try to shift gears.

BRAKE

To operate the brake, depress the right pedal all the way down. To lock the brake in park position, depress the right pedal all the way down and lift the brake lock. Pedal will stay in the depressed position. To release the parking brake, depress the pedal.

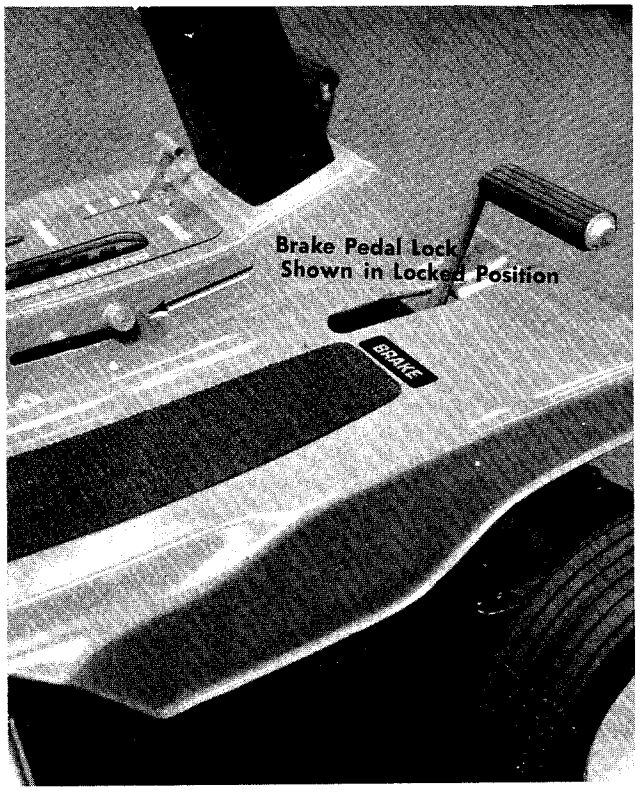

FIGURE 5. BRAKE PEDAL LOCK

CLUTCH PEDAL

The clutch pedal on the left side when depressed, disengages the engine from the transmission. It can be held in the disengaged position by lifting the clutch lock. To stop the mower, depress the clutch and brake pedals. See figure 6.

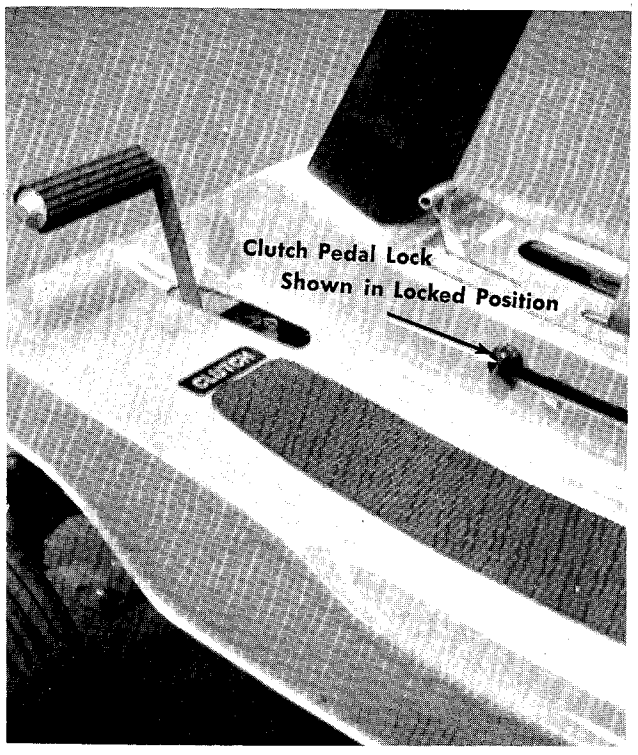

FIGURE 6. CLUTCH PEDAL LOCK

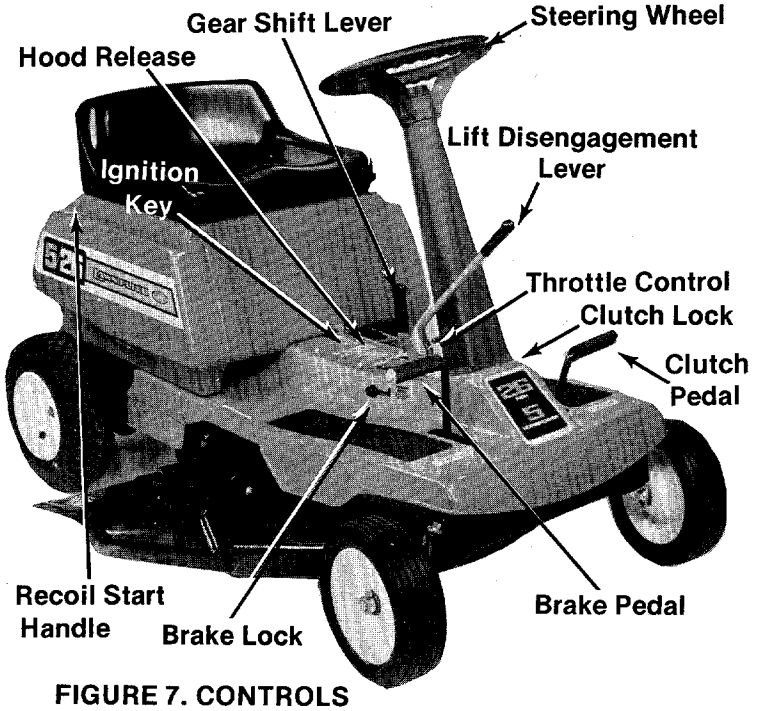

FIGURE 7. CONTROLS

OPERATING INSTRUCTIONS

CAUTION

1. Keep all shields and guards in place.
2. Before leaving operator's position:
   - Shift controls into neutral
   - Set parking brake (Brake Lock)
   - Disengage attachment drive
   - Shut off engine
   - Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.

CAUTION

Parking brake **must** be disengaged before unit is put into motion.

NOTE

Unit is equipped with separate brake and clutch pedals. To efficiently stop, it is necessary to disengage the clutch when applying the brakes.

STARTING THE ENGINE

1. Be sure the crankcase is filled with oil as recommended in the engine manual and put regular gasoline in the gasoline tank.
2. Attach the wire to the spark plug.
3. Depress the clutch pedal and lock it down.
4. Move the lift and disengagement lever back to the disengaged position and lock it.
5. Set the throttle control lever in the CHOKE position.
6. Turn the ignition key to the ON position. Twist the recoil starter handle until it is free and pull it with a quick steady motion. After the engine starts, return the recoil starter handle. Twist it until it locks. See figures 8 and 9.

NOTE

If these instructions are not followed the engine will stop running when the clutch or blades are engaged.

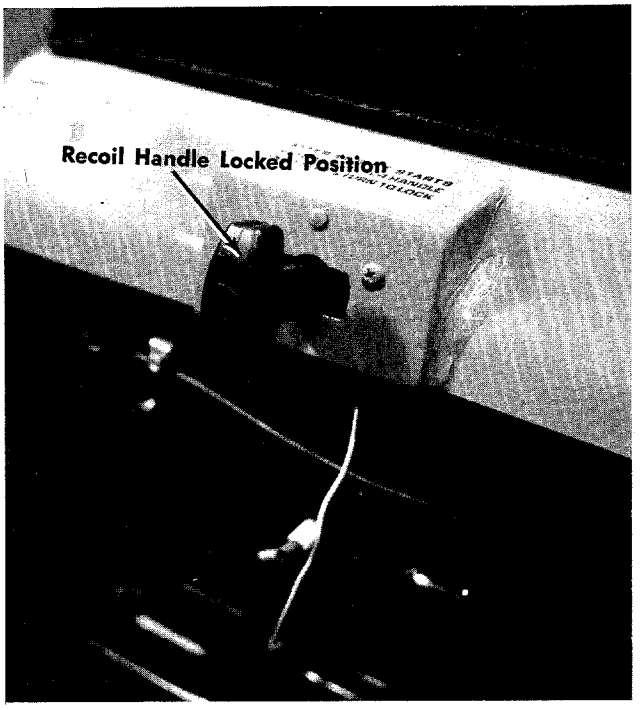

FIGURE 8. RECOIL HANDLE

FIGURE 9. RECOIL HANDLE

Slowly return the throttle to the running position as soon as the engine starts.

7. To stop, turn the ignition key to the OFF position and remove the key when the rider is not in use.

PUTTING THE RIDING MOWER IN MOTION

1. Advance the throttle control from ¾ to full throttle to prevent strain on the engine and to operate the cutting blades.
2. Place the gear shift lever in either the FORWARD or REVERSE position.
3. Slowly release the clutch pedal.
4. To stop, depress the clutch and the brake pedals.
5. The blades can be engaged either while moving or while standing still. Move the lift and disengagement lever forward slowly until the blades are running.

STOPPING

Engine—Turn the ignition key to the left to the OFF position.

Rider—Depress the clutch and brake pedals.

Blades—Pull the lift and disengagement lever all the way back and lock it.

MAINTENANCE AND ADJUSTMENTS

THROTTLE CONTROL

To Check Operation:

1. Remove air cleaner.
2. Move throttle control lever to CHOKE position. The carburetor choke should be closed.
3. Move throttle control lever to STOP position. Lever should make good contact with stop switch.

To Adjust: See figure 10.

Place remote control lever on equipment in FAST (high speed) position.

Lever C on carburetor should be just touching choke arm at D. To adjust, loosen casing clamp screw A on blower housing. Move control casing B forward or backward until correct position is obtained. Tighten screw A.

Recheck operation of controls after adjustment. Replace air cleaner.

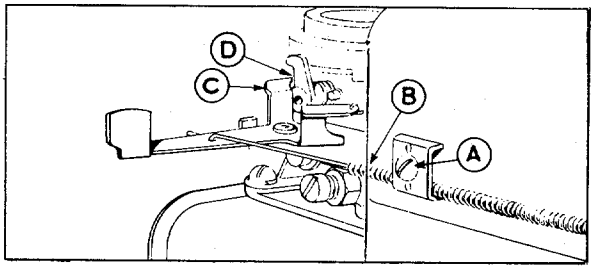

FIGURE 10. THROTTLE CONTROL ADJUSTMENT

CARBURETOR ADJUSTMENTS See figure 11.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

Initial Adjustment:

Turn needle valve clockwise to close it. Then open 2 turns. This initial adjustment will permit the engine to be started and warmed up before making final adjustment.

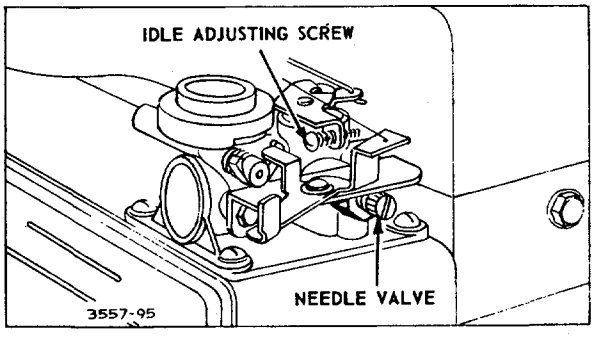

FIGURE 11. CARBURETOR ADJUSTMENT

Final Adjustment:

With engine running at normal operating speed (approximately 3000 RPM without load) turn needle valve clockwise until engine starts to lose speed (lean mixture). Then slowly turn needle valve counterclockwise past the point of smoothest operation, until engine just begins to run unevenly. This mixture will give best performance under load.

To check adjustment move engine control from SLOW to FAST speed. If engine tends to stall or die out, it usually indicates that the mixture is slightly lean and it may be necessary to open the needle valve slightly to provide a richer mixture. This richer mixture may cause a slight unevenness in idling.

CHAIN ADJUSTMENT See figure 12.

After the first five hours of operation the initial slack should be removed from the chain. The chain should be tight enough so that it deflects approximately ½" when it is depressed with the thumb.

To adjust:

The adjusting bolt is located under the frame, above the cutting deck on the right side of the mower.

Turn the adjusting bolt clockwise with an open end wrench until the chain reaches the proper tension.

NOTE

If the transmission mounting plate will not slide forward to adjust the chain tension, it may be necessary to loosen the four nuts mounting the transmission to the frame.

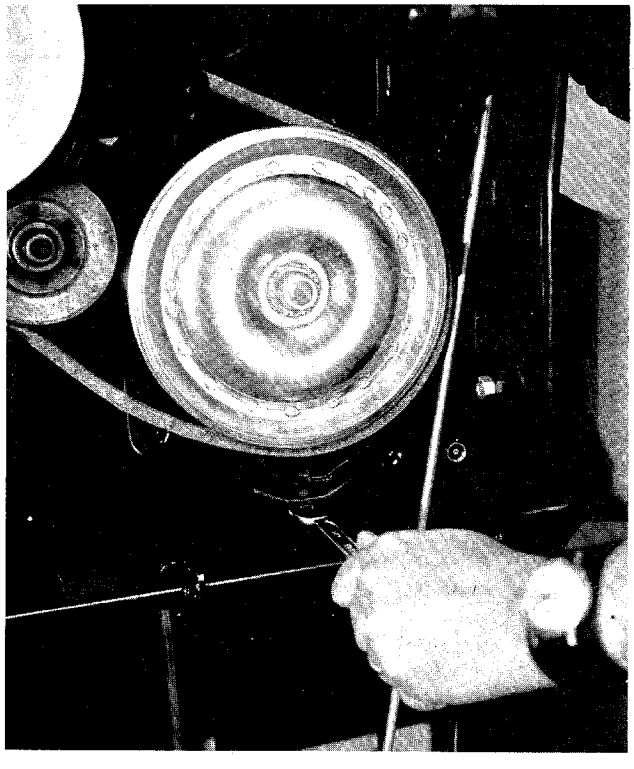

FIGURE 12. CHAIN ADJUSTMENT

NOTE

Deck was removed for photographing.

BRAKE ADJUSTMENTS See figure 13.

To adjust the brake tighten the locknut one-half turn and then test the brakes.

The brake is located by the right rear wheel inside the frame.

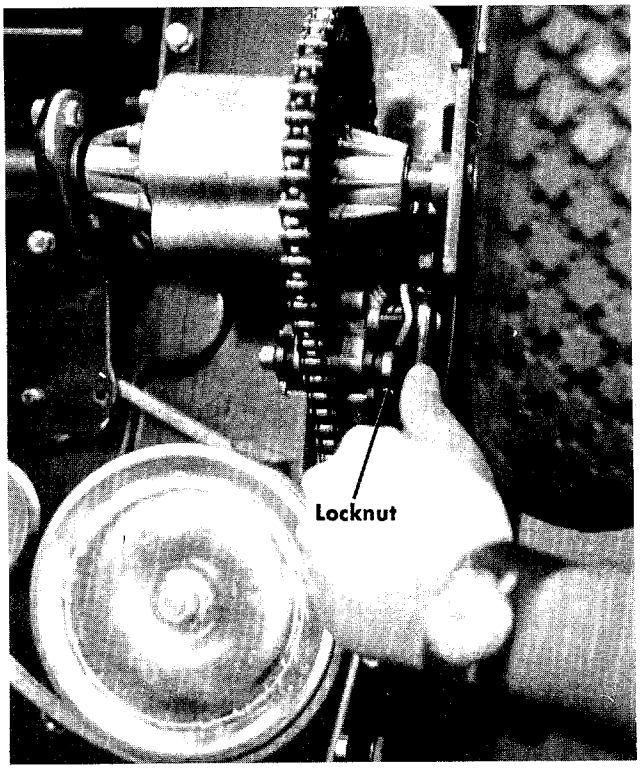

FIGURE 13. BRAKE ADJUSTMENT

NOTE

Deck was removed for photographing.

BLADES

WARNING

Disconnect the spark plug wire and remove the ignition key before removing the blades.

Sharp and balanced blades are essential for efficient mowing and long mower and engine life. When sharpening blades, file equal amounts of metal from each side. The blades should be balanced before they are reinstalled. An unbalanced blade will cause excessive vibration and undue wear on the mower and the engine. When reassembling, all parts must be installed in the proper order and fastened securely.

Remove the 3/8" bolt and lockwasher. Pull the blade and adapter off the mower deck. To remove the adapter from the blade, remove the two 5/16" bolts, lockwashers and nuts. See figure 14.

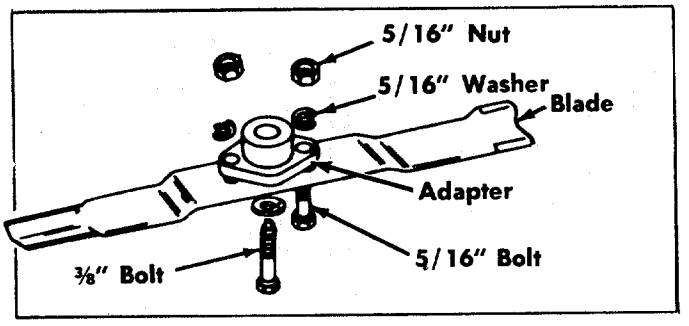

FIGURE 14. BLADE REMOVAL

MOWER DECK

The underside of the mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next mowing.

The deck may be cleaned by tilting the mower on its front wheels until the frame and the steering wheel supports the entire unit. Scrape clean with a suitable tool or by washing with a stream of water from a garden hose. Be sure to disconnect the spark plug wire and ground it while performing this maintenance.

NOTE

To insure safe operation, ALL nuts and bolts must be checked periodically for correct tightness.

PREPARING FOR BELT REMOVAL

1. To prevent gasoline from leaking from the engine, remove the fuel tank cap, place a piece of thin plastic over the neck of the fuel tank and screw on the cap.
2. Disconnect the spark plug wire and ground it against the engine.

BELT REMOVAL See figures 15 through 19.

To Remove the Deck Belt

Step 1. Put the lift and disengagement lever into the ENGAGED position.

Step 2. Remove two belt keepers at the engine pulley. See figure 15.

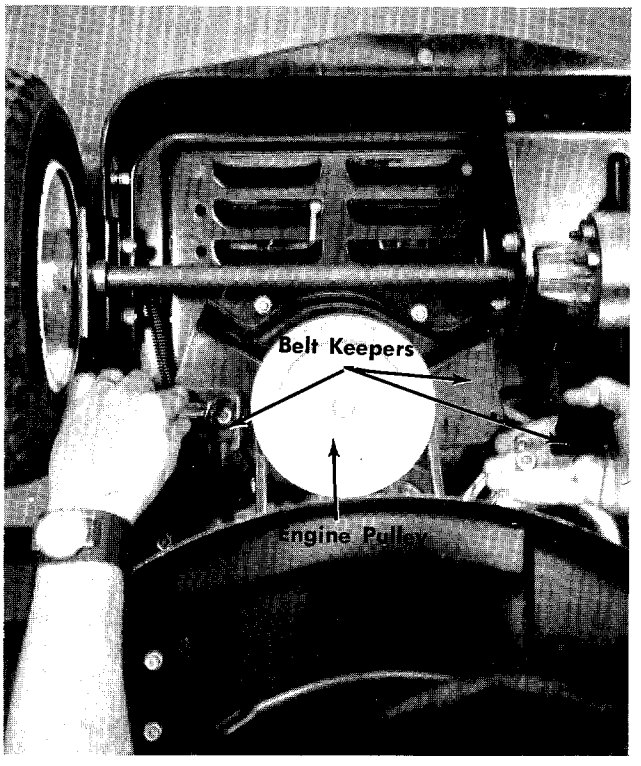

FIGURE 15. REMOVAL OF BELT KEEPERS

Step 3. Remove two belt keepers at the deck pulley and shoulder bolt. See figures 16 and 17.

Step 4. DISENGAGE the deck and unhook the belt from the engine pulley.

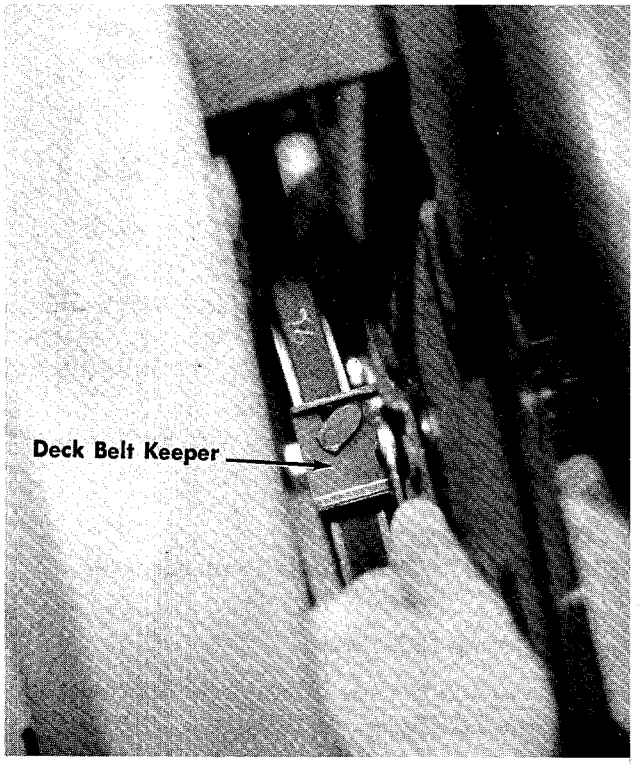

FIGURE 16. REMOVAL OF DECK BELT KEEPERS

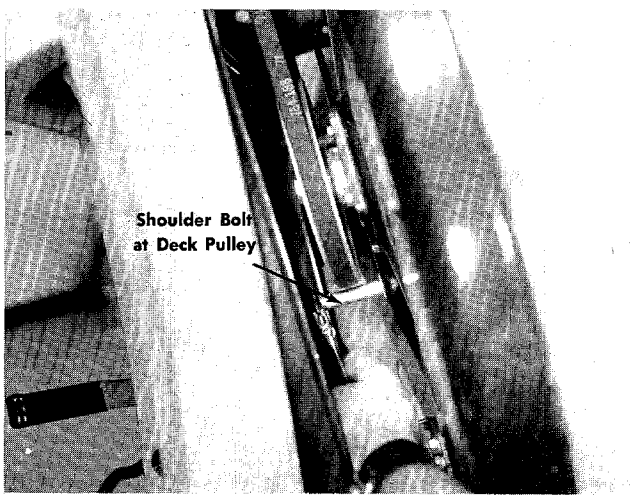

FIGURE 17. SHOULDER BOLT REMOVAL

Step 5. ENGAGE the deck and remove the belt.

To Remove the Drive Belt:

Step 1. Remove the two belt keepers at the engine pulley. DISENGAGE the deck and remove the belt.

Step 2. ENGAGE the deck and unhook the deck springs.

CAUTION

Deck will drop when last bolt is removed in step 3.

Step 3. Remove six hex screws, nuts and lockwashers holding the deck. See figure 18.

Step 4. Remove the belt guard at the engine pulley. See figure 19.

Step 5. Remove the nut and lockwashers at the idler pulley. See figure 19.

Step 6. Remove the hex nut and lockwasher at the transmission pulley. Remove and replace the belt.

NOTE

When reassembling the transmission pulley, place hub side up.

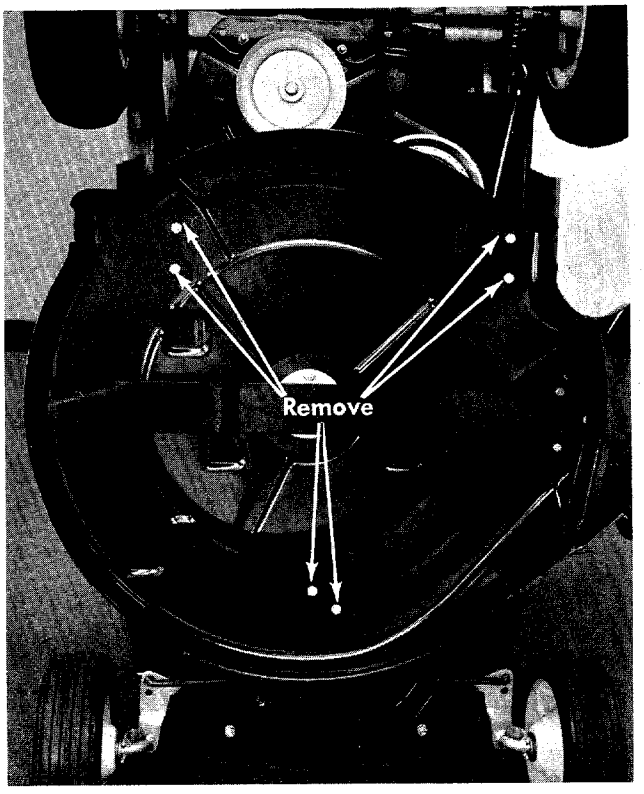

FIGURE 18. DECK REMOVAL

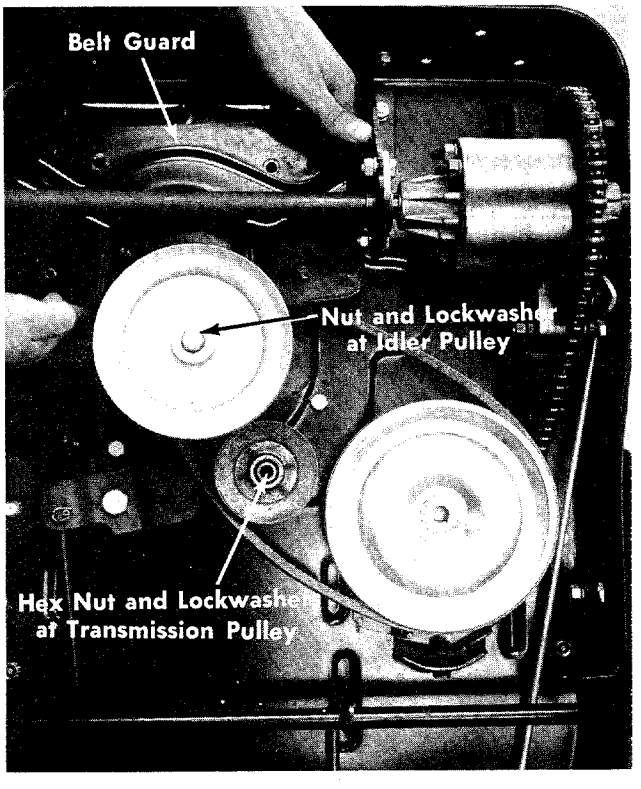

FIGURE 19. ENGINE BELT GUARD REMOVAL

LUBRICATION See figure 20.

1. **Engine.** Maintain the engine oil according to the engine manual.
2. **Bearings.** The following bearings are oil impregnated and do not require lubrication, however, their normal life can be extended by lubricating them once a season with a light, non-detergent oil.
3. King Pin Bearings (total 4 bearings)
4. Rear Axle Bearings (total 3 bearings)
5. Front Wheel Bearings (total 4 bearings)
6. **Throttle Control and Cable.** Wipe oiled rag along entire length of cable.
7. **Chain.** Wipe oiled rag along entire length of chain.

NOTE

Under extremely dusty conditions do not oil the chain.

8. **Linkage.** Oil all deck linkage and height adjustment linkage.
9. **Transmission.** Lubricated at the factory, does does not require checking. Lubricate with 4 oz. of Lubriplate No. 310 if disassembled.
10. **Differential.** Lubricated at the factory, does not require checking. Lubricate with 2 oz. of grease High Temp. 450° F. if disassembled. If ordered from the factory use Part No. 737-0120.
11. **Steering.** Lubricate at least once a season with oil.

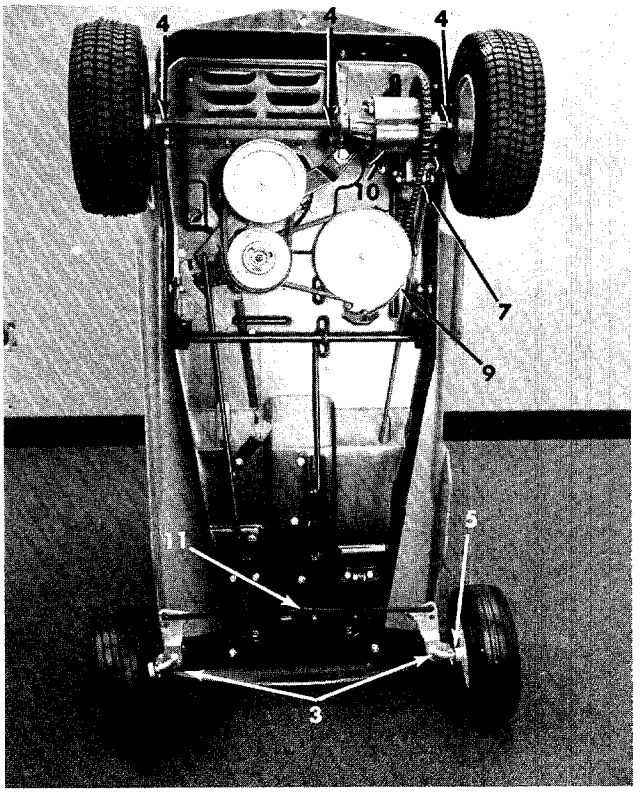

FIGURE 20. LUBRICATION POINTS

OFF-SEASON STORAGE

NOTE

Engines to be stored over 30 days should be completely drained of fuel to prevent gum deposits forming on essential carburetor parts, fuel filters, fuel lines and tank.

1. Remove all fuel from fuel tank. Run the engine until it stops from lack of fuel. The small amount of fuel that remains in the sump of the tank should then be removed by absorbing it with a clean, dry cloth.
2. While engine is still warm, drain oil from crankcase. Refill with fresh oil.
3. Remove spark plug, pour 1 ounce of SAE 30 oil into cylinder and crank slowly to distribute oil. To prevent accidental starting, DO NOT replace the spark plug.
4. Clean dirt and chaff from cylinder, cylinder head fins and blower housing.
5. Clean all grass from under side of deck.
6. Clean the air filter.
7. Place blocks under frame of mower so that the wheels are off the ground.
8. Cover all bare metal parts, such as the mowing edge of the blades, with grease to prevent rusting.
9. Cover the mower with a tarpaulin or other protective covering.

TROUBLE SHOOTING CHART

CAUTION: ALWAYS DISCONNECT SPARK PLUG BEFORE ATTEMPTING ANY REMEDY.

TROUBLE	LOOK FOR	REMEDY
Engine fails to start.	Safety System	If the engine will not start be sure the clutch control is disengaged; blade controls disengaged, the throttle control is set and the key is turned on. A. Disconnect the yellow wire from the engine. This comes from the ignition switch. B. If the engine fails to start the problem is with the engine, not the safety system. C. If the engine starts, the problem is with the safety system. Check the yellow wire for a ground. D. Check the operation of the switch behind the recoil starter handle. E. If the engine stops when the clutch or blade is engaged, the recoil handle is not pushed into the receptacle and twisted a quarter turn.
	Blocked fuel line or empty gas tank.	Clean fuel line; check fuel supply. Also check fuel shut-off valve.
	Defective spark plug.	Spark plug lead wire disconnected. Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug. NOTE: Use insulated pliers to hold the spark plug wire.
	Throttle setting.	Throttle control lever not in the starting position.
	Loose connections	Spark plug wire loose.
Hard starting or loss of power.	Dirty air cleaner.	Remove air cleaner and clean as outlined in **Engine Manual.**
	Carburetor improperly adjusted.	Review paragraph **Carburetor Adjustment.**
Excessive vibration.	Bent or damaged blade spindle.	Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to discharge grass.	Discharge chute clogged.	Clean discharge chute and inside of deck.
	Foreign object lodged in deck.	Remove object from deck. See CAUTION following step 1 in paragraph **Operation.**
Engine overheats.	Obstructions in air passages.	Remove any obstruction from air passages in shroud. Grass and dirt in engine shroud. Clean cooling fins.
	Oil level.	Fill crankcase to proper oil level.

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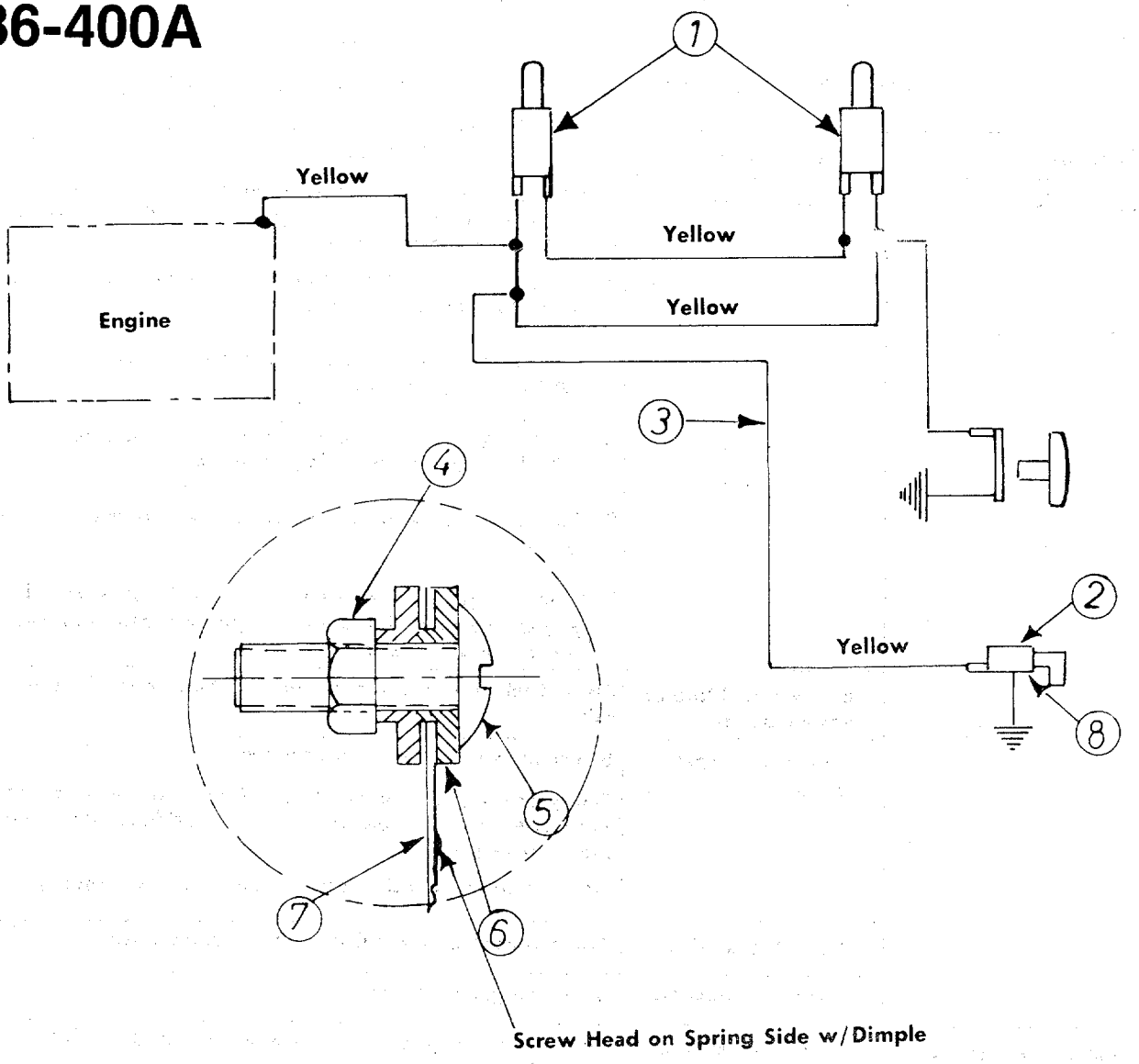

SCHEMATIC FOR ELECTRICAL SYSTEM

PARTS LIST FOR SCHEMATIC

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0269		Safety Switch Norm Closed—Red	
2	725-0266		Magneto Ignition Switch w/Nut	
3	725-0407		Wire Harness	
4	712-0121		Hex Nut #10-24	
5	710-0425		Truss Mach. Scr. #10-24 x .62	
6	736-0338		Fiber Washer	
7	732-0257		Switch Spring	
8	736-0225		Internal L-Wash. ⅝ I.D.	

*For faster service obtain standard nuts and bolts locally. If these items cannot be obtained locally, order by part number and size as shown on the parts list.

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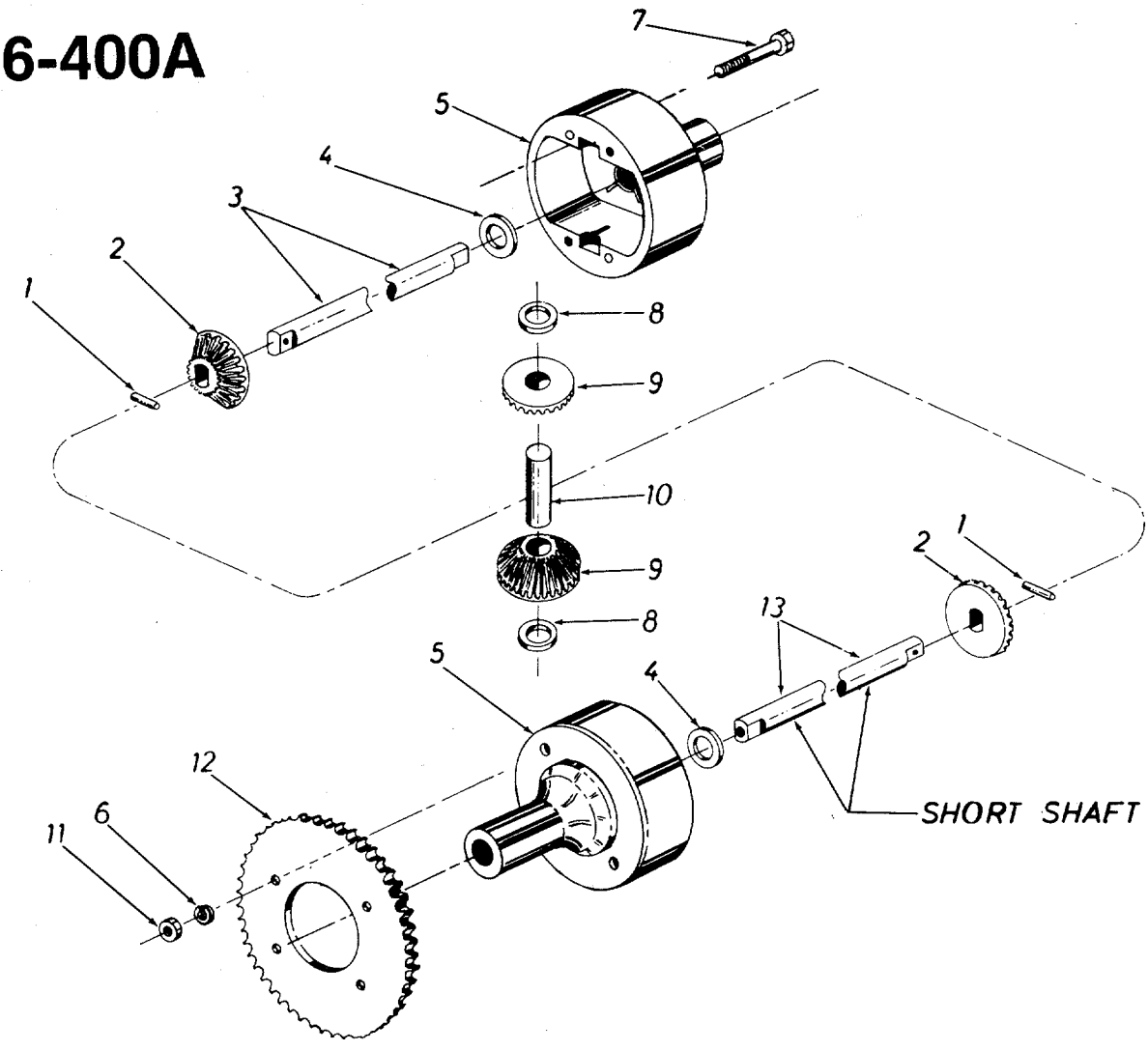


PARTS LIST FOR DIFFERENTIAL ASSEMBLY 717-0328

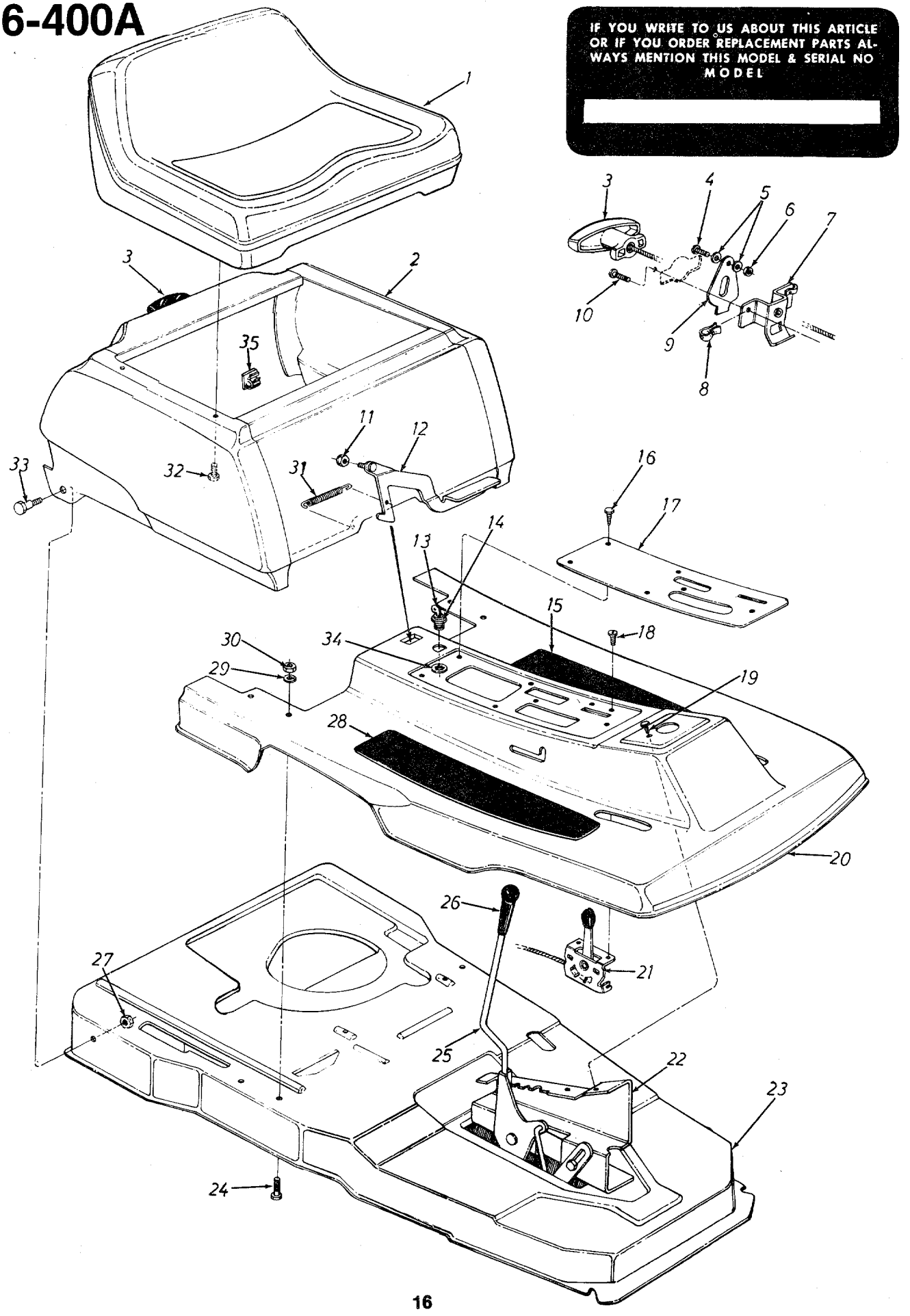
Ref. No.	Part No.	Qty. Req'd.	Description	New Part
1	715-0247	2	Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	
2	748-0185	2	Gear—Double "O" Hole	
3	738-0300	1	Shaft—Long 19.31" Lg.	N
4	736-0188	2	Fl-Wash. .760 I.D. x 1.49 O.D.	
5	717-0341	2	Housing Half	N
6	736-0119	2	L-Wash. 5/16" Scr.*	
7	710-0363	2	Hex Scr. 5/16-24 x 4.00" Lg.*	
8	736-0187	2	Fl-Wash. .640 I.D. x 1.24 O.D.	
9	748-0158	2	Gear—Round Hole	
10	711-0276	1	Drive Pin	
11	712-0237	2	Hex Cent. L-Nut 5/16-24 Thd.	
12	09054	1	Sprocket—40 Tooth	
13	738-0301	1	Shaft—Short 7.07" Lg.	N

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

136-400A

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS ALWAYS MENTION THIS MODEL & SERIAL NO

MODEL



PARTS LIST FOR MODEL 136-400A RIDING MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	757-0265		Seat Comp.	N
2	12131	—462	Cover Ass'y.	
3	11263		Plastic Handle	
4	710-0425		Truss Mach. Scr. #10-24 .62" Lg.*	
5	736-0338		Fiber Washer	
6	712-0121		Hex Nut #10-24 Thread	
7	11053		Switch Brkt. Ass'y.	
8	712-0344		Speed Nut #10Z	
9	732-0257		Switch Spring	
10	710-0351		Truss Mach. B-Tapp. Scr. #10 x .50" Lg.*	
11	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
12	12144		Latch—Engine Cover	
13	725-0128		Ignition Key	
14	725-0266		Ignition Switch	
15	723-0241		Foot Pad	
16	710-0351		Truss Mach. B-Tapp. Scr. #10 x .50" Lg.*	
17	12175	—452	Cover Plate	
18	710-0227		Hex Wash. Hd. AB Tapp. Scr. #8 x .38" Lg.	
19	710-0351		Truss Mach. B-Tapp. Scr. #10 x .50" Lg.*	
20	12128	—462	Floor Pan	
21	746-0239		Throttle Control—R.H.	
22	12150	—462	Index and Support Brkt.	
23	12125	—452	Main Frame	
24	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
25	12142		Deck Lift Handle Ass'y.	
26	720-0143		Grip	
27	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
28	723-0241		Foot Pad	
29	736-0119		L-Wash. 5/16" Scr.*	
30	712-0267		Hex Nut 5/16-18 Thd.	
31	732-0118		Extension Spring	
32	710-0352		Hex B-Tapp. Scr. ¼ x .38" Lg.*	
33	738-0155		Shld. Scr. .437 Dia. x .162	
34	736-0225		Internal L-Wash. 5/8 I.D.	
35	726-0141		Adjustment Clamp	

WHEEL CHART

FRONT WHEEL		REAR WHEEL	
734-0510	Wheel Ass'y.—Comp.	734-0522	Wheel Ass'y.—Comp.
10152	Rim with Hub Ass'y.	734-0517	Rim with Hub Ass'y.
748-0146	Bearing	734-0301	Tire Only 12.2 x 3.7
—	Hub Part of Rim	—	Hub Part of Rim
		734-0255	Air Valve

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(462—Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—12131 (462).)

NOTE: The engine is not under warranty by the mower manufacturer . . . If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

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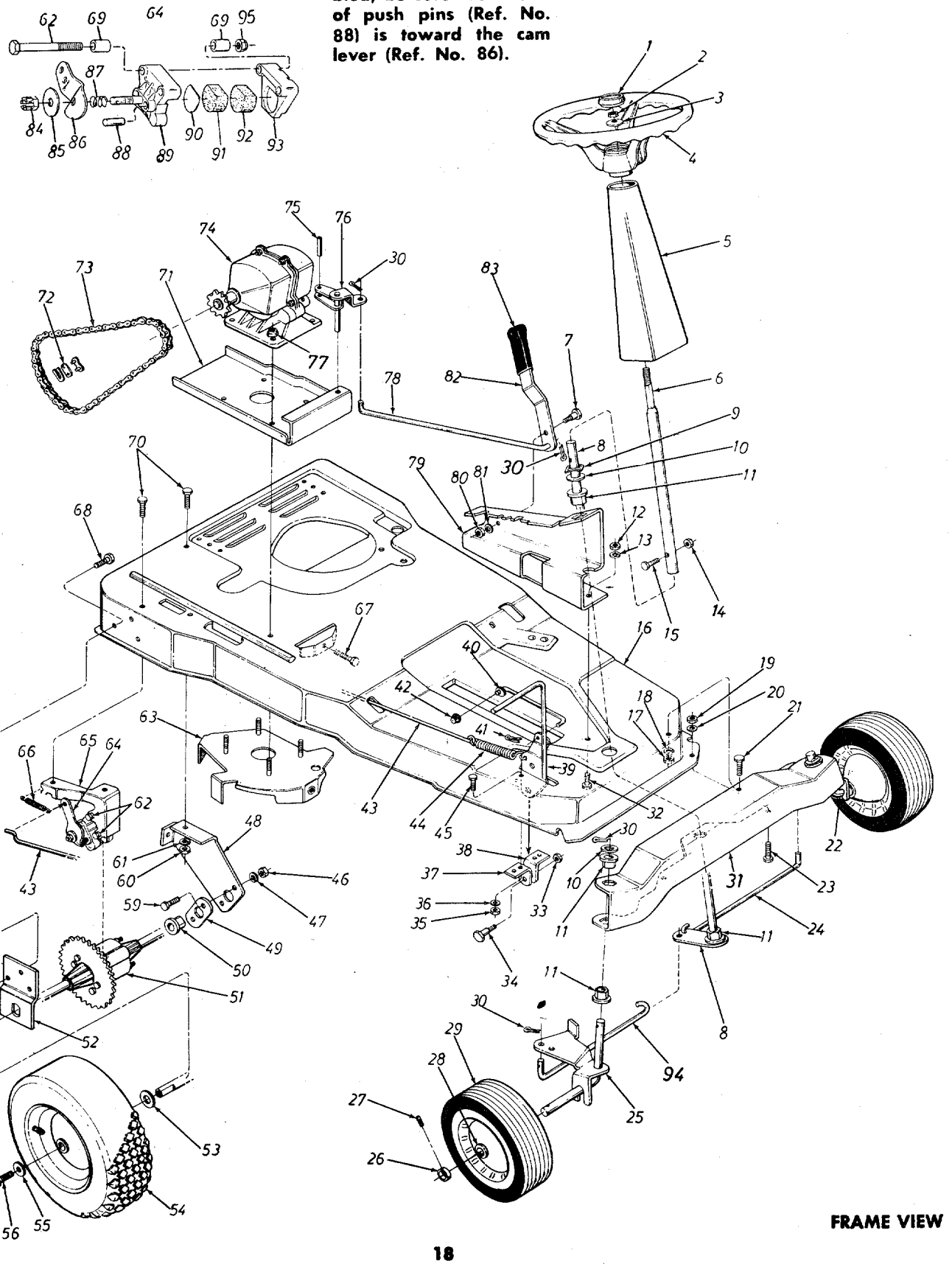
NOTE: If for any reason Disc Brake is disassembled, be sure round end of push pins (Ref. No. 88) is toward the cam lever (Ref. No. 86).



FRAME VIEW

PARTS LIST FOR MODEL 136-400A RIDING MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.*	
3	736-0242		Belleville Wash.	
4	731-0219		Steering Wheel Ass'y.	
5	731-0262		Cover—Steering Column	
6	750-0233		Steering Tube Ass'y.	
7	738-0140		Shld. Scr. .437 Dia. x .180" Lg.	
8	12138		Steering Shaft Ass'y.	
9	712-0222		Push Speed Nut .62 Dia..	
10	736-0156		Fl-Wash. .635 I.D. x 1.120 O.D.	
11	748-0227		Hex Flange Brg. .630 I.D.	
12	712-0267		Hex Nut 5/16-18 Thd.*	
13	736-0119		L-Wash. 5/16" Scr.*	
14	712-0107		Hex Cent. L-Nut ¼-20 Thd.	
15	710-0106		Hex Scr. ¼-20 x 1.25" Lg.	
16	12125	—452	Main Frame	
17	712-0267		Hex Nut 5/16-18 Thd.*	
18	736-0119		L-Wash. 5/16" Scr.*	
19	712-0267		Hex Nut 5/16-18 Thd.*	
20	736-0119		L-Wash. 5/16" Scr.*	
21	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
22	09709		Axle Ass'y.—Front—L.H.	
23	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
24	747-0147		Tie Rod 3/8" Dia. L.H.	
25	09706		Axle Ass'y.—Front—R.H.	
26	711-0169		Collar	
27	710-0494		Sq. Hd. Set Scr. 5/16-18 x 38 Cup	
28	748-0146		Flange Brg. w/Flats .630 I.D.	
29	734-0510		Wheel Ass'y.—Front 10.25 x 3.25	
30	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*	
31	12151		Front Wheel Brkt.	
32	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
33	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
34	738-0234		Shld. Scr. .500" Dia. x .295" Lg.	
35	712-0267		Hex Nut 5/16-18 Thd.*	
36	736-0119		L-Wash. 5/16" Scr.*	
37	12155		Pedal Pivot Brkt. w/½" Hole	
38	12156		Pedal Pivot Brkt. w/3/8" Hole	
39	12136		Brake Pedal Ass'y.	
40	12419		Pedal Lockout Rod 5/16"	
41	714-0104		Int. Cotter Pin 5/16" Dia.*	
42	726-0109		Push Cap—.312 I.D.	
43	747-0128		Brake Rod ¼" Dia. x 25.25" Lg.	
44	732-0245		Brake Spring	
45	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
46	712-0267		Hex Nut 5/16-18 Thd.*	
47	736-0119		L-Wash. 5/16" Scr.*	
48	12147		Rear Axle Support Brkt.	
49	10470		Bearing—Plate	
50	741-0199		Plastic Flange Brg. w/Flats .753 I.D.	N
51	717-0271		Differential Ass'y.—Comp.	
52	12148		Axle Brkt.	
53	736-0134		Fl-Wash. .812 I.D. x 1.38 O.D.	
54	734-0522		Wheel Ass'y.—Comp. Rear 12.2 x 3.7	
55	736-0105		Belleville Wash. .400 I.D. x .88 O.D.	
56	710-0568		Scr. 5/16-18 x .75" Lg.	
57	736-0119		L-Wash. 5/16" Scr.*	
58	712-0267		Hex Nut 5/16-18 Thd.*	
59	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
60	712-0267		Hex Nut 5/16-18 Thd.*	
61	736-0119		L-Wash. 5/16" Scr.*	
62	710-0395		Hex Scr. 5/16-18 x 2.25" Lg.*	
63	10086		Belt Guard Ass'y.—Trans.	
64	761-0130		Disc Brake Ass'y.—Comp.	
65	12145		Brake Brkt. Ass'y.	
66	732-0118		Ext. Spring	
67	710-0117		Hex Scr. 5/16-24 x 1.00" Lg. H.T.	
68	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
69	761-0133		Spacer for Disc Brake	
70	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
71	10247		Transmission Plate	
72	713-0723		#41 Master Link ½" Pitch Type II	
73	713-0190		#41 Chain ½" Pitch x 71 Links	
74	717-0223		Single Spd. Trans.—Comp.	
75	715-0103		Spring Pin Roll 1/8 x .75" Lg.	
76	12170		Shift Brkt Ass'y.	
77	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
78	747-0136		Shift Rod	
79	712-0267		Hex Nut 5/16-18 Thd.*	
81	736-0119		L-Wash. 5/16" Scr.*	
82	12169		Shift Lever	
83	720-0142		Grip—Flat Bar Type	
84	712-0134		Hex Top L-Nut 5/16-24 Thd.	
85	HH-03-03032		Wash. .349 I.D. x 1.004 O.D. x .066 Thk.	
86	HH-18-03493		Cam Lever 22°	
87	HH-06-03031		Spring—Compres. .350" Dia. x 4 Coils	
88	HH-05-03034		Push Pin .309" Dia. x .857"	
89	HH-12-03292		Casting—Cam	
90	HH-03-03303		Back Up Wash. 1.115" Dia. x .018 Thk. (D-Shaped)	
91	HH-15-02124		Pad-Friction (D-Shaped) 1.110" Dia. x .472 Thk.	
92	HH-15-03149		Pad-Friction (D-Shaped) 1.110" Dia. x .245 Thk.	
93	HH-12-03293		Casting—Carrier	
94	747-0146		Tie Rod 3/8" Dia.—R.H.	
95	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	

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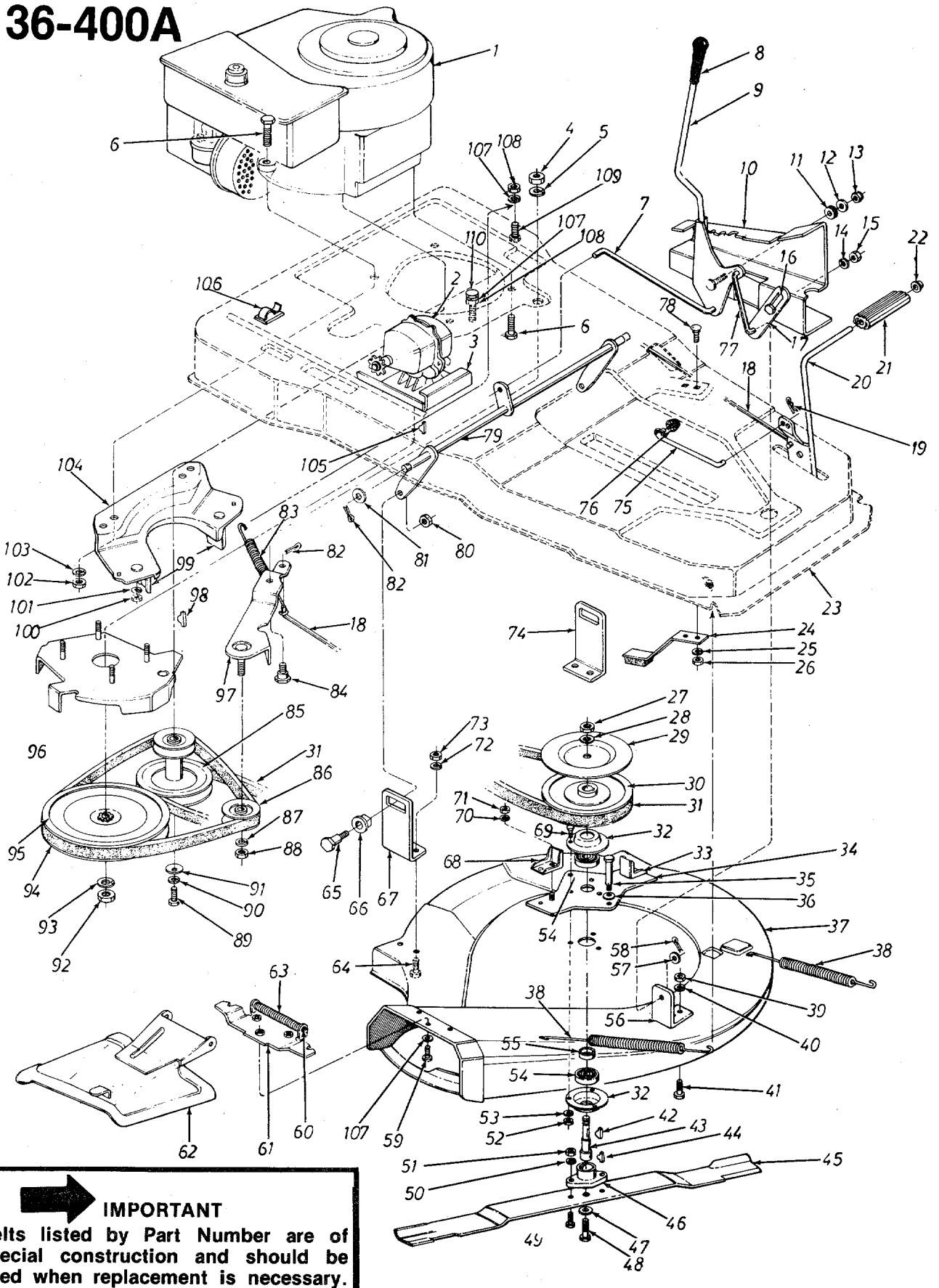
(462—Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—12131 (462).)

NOTE: The engine is not under warranty by the mower manufacturer . . . If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

136-400A



IMPORTANT

Belts listed by Part Number are of special construction and should be used when replacement is necessary. The dimensions and description given are for general reference only and belts purchased by description and dimension generally will only provide temporary service.

PARTS LIST FOR MODEL 136-400A RIDING MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	—		Engine	
2	717-0223		Trans, Ass'y.—Comp.	
3	10247		Trans. Plate	
4	712-0798		Hex Nut 3/8-16 Thd.*	
5	736-0217		L-Wash. 3/8" Scr. H.D.	
6	710-0442		Hex Scr. 5/16-18 x 1.50" Lg.*	
7	747-0127		Lift Handle Rod 3/8" Dia.	
8	720-0143		Grip	
9	12142		Deck Lift Handle Ass'y.	
10	12150		Index and Support Brkt.	
11	735-0126		Rubber Washer	
12	736-0101		Fl-Wash. .406 I.D. x 1.00 O.D. x .030	
13	712-0112		Hex Nut #6-32 Thd.*	
14	736-0217		L-Wash. 3/8" Scr. H.D.	
15	712-0798		Hex Nut 3/8-16 Thd.*	
16	738-0183		Shoulder Scr.	
17	12152		Deck Hanger Link	
18	747-0132		Clutch Rod	
19	714-0104		Hair Pin Cotter	
20	12133		Clutch Pedal Ass'y.	
21	731-0142		Foot Pedal Bar	
22	726-0221		Push Cap ½" I.D.	
23	12125		Main Frame	
24	761-0148		Blade Brake Ass'y. 1.38	
25	736-0329		L-Wash. ¼" Scr.*	
26	712-0287		Hex Nut ¼-20 Thd.*	
27	712-0261		Hex Cent. L-Nut 5/8-11 Thd.	
28	736-0158		Fl-Wash. 5/8" Scr.*	
29	11073		Brake Disc	
30	756-0143		Split Pulley .63 I.D.	
31	754-0188		V-Belt 21/32-51" Lg.	
32	08253		Housing—Bearing	
33	12172		Belt Keeper Ass'y.	
34	11537		Belt Guard Plate Ass'y.	
35	738-0129		Shld. Scr. .498 Dia. x 2.005	
36	736-0105		Bell. Wash. .400 I.D. x .88 O.D.	
37	12157		26" Deck Ass'y.	
38	732-0153		Spring .75 O.D. x 8.65 Lg.	
39	712-0267		Hex Nut 5/16-18 Thd.*	
40	736-0119		L-Wash. 5/16" Scr.*	
41	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
42	714-0388		#61 Hi-Pro Key 3/16 x 5/8" Dia.	
43	711-0405		Blade Spindle	
44	714-0365		#6 Hi-Pro Key 5/32 x 5/8 Dia.	
45	742-0147		26" Blade	
46	10769		Blade Adapter Kit	
47	736-0217		L-Wash. 3/8" Scr. H.D.	
48	710-0459		Hex Scr. 3/8-24 x 1.50" Lg. H.T.	
49	710-0117		Hex Scr. 5/16-24 x 1.00" Lg. H.T.	
50	736-0119		L-Wash. 5/16" Scr.*	
51	712-0123		Hex Nut 5/16-24 Thd.*	
52	712-0267		Hex Nut 5/16-18 Thd.*	
53	736-0119		L-Wash. 5/16" Scr.*	
54	741-0919		Ball Bearing	
55	750-0142		Spacer	
56	12153		Front Deck Brkt.	
57	736-0185		Fl-Wash. .406 I.D. x .734 O.D. x .063*	
58	714-0507		Cot. Pin 3/32 Dia. x .75" Lg.	
59	710-0195		Hex Scr. ¼-28 x .62	
60	726-0166		Push Cap ¼" Dia.	
61	11399		Adapter Ass'y.	
62	11634		Chute Cover Ass'y.—Comp.	
63	732-0261		Torsion Spring	
64	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
65	738-0141		Shld. Scr. .437 Dia. x .350	
66	748-0180		Pivot Slide	
67	12154		Rear Deck Brkt.	
68	10426		Belt Keeper Ass'y.	
69	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
70	736-0119		L-Wash. 5/16" Scr.*	
71	712-0267		Hex Nut 5/16-18 Thd.*	
72	736-0119		L-Wash. 5/16" Scr.*.	
73	712-0267		Hex Nut 5/16-18 Thd.*	
74	12154		Rear Deck Brkt.	
75	12419		Pedal Lockout Rod 5/16"	
76	726-0109		Push Cap—.312 I.D.	
77	747-0125		Deck Lift Rod 3/8" Dia.	
78	710-0167		Carriage Bolt ¼-20 x .50" Lg.	
79	12139		Deck Lift Shaft Ass'y.	
80	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
81	736-0116		Fl-Wash. .635 I.D. x .93 O.D.	
82	714-0507		Cot. Pin 3/32 Dia. x .75" Lg.*	
83	732-0233		Tension Spring	
84	738-0147		Shld. Scr. .500 Dia. x .170	
85	756-0212		Engine Two Step Pulley and 5.81	
86	756-0116		V-Belt Idler	
87	736-0217		L-Wash. 3/8" Scr. H.D.	
88	712-0711		Hex Jam Nut 3/8-24 Thd.*	
89	710-0151		Hex Scr. 3/8-24 x 2.00" Lg.*	
90	736-0217		L-Wash. 3/8" Scr. H.D.	
91	711-0572		Step Washer	
92	712-0922		Hex Jam Nut ½-20*	
93	736-0921		L-Wash. ½" Scr.*	
94	754-0101		V-Belt ½ x 35" Lg.	
95	756-0175		Trans. Split Pulley .50 I.D.	
96	10086		Belt Guard Ass'y.—Trans.	
97	12162		Idler Brkt. Ass'y.	
98	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.	
99	12160		Belt Keeper Ass'y.	
100	712-0267		Hex Nut 5/16-18 Thd.*	
101	736-0119		L-Wash. 5/16" Scr.*	
102	712-0267		Hex Nut 5/16-18 Thd.*	
103	736-0119		L-Wash. 5/16" Scr.*	
104	10423		Belt Guard—Cup Ass'y.	
105	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.	
106	726-0141		Adjustment Clamp	
107	736-0329		L-Wash. ¼" Scr.*	
108	712-0138		Hex Nut ¼-28 Thd.*	
109	710-0559		Hex Scr. ¼-28 x 1.75" Lg.*	
110	710-0299		Hex Scr. ¼-28 x 1.00" Lg.*	

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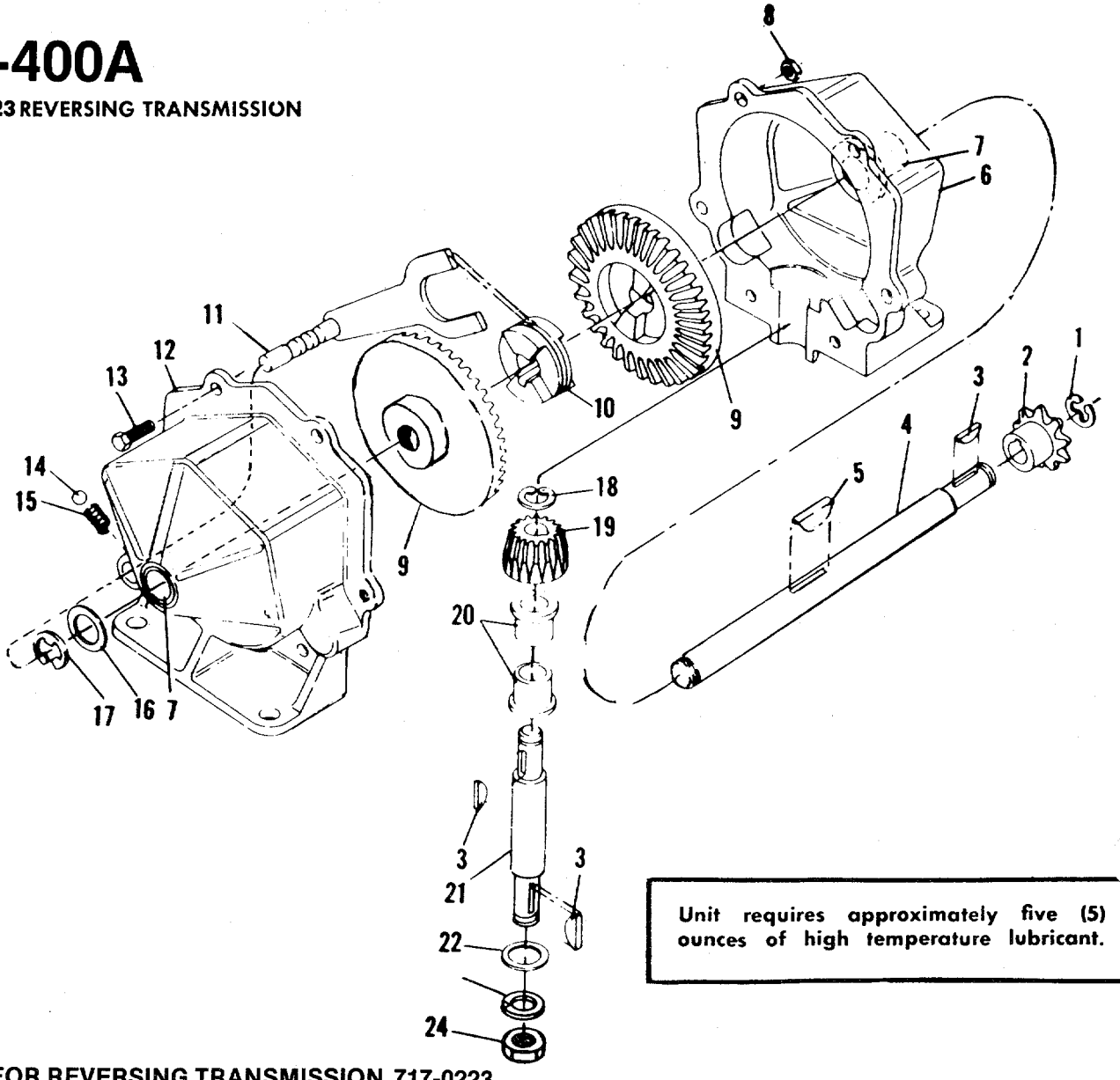
(462—Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—12131 (462).)

136-400A

717-0223 REVERSING TRANSMISSION



Unit requires approximately five (5) ounces of high temperature lubricant.

PARTS LIST FOR REVERSING TRANSMISSION 717-0223

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	716-0104		E-Ring for .500" Dia. Shaft		13	710-0195		Hex Hd. Cap Scr. ¼-28 x .62" Lg.*	
2	748-0852		Sprocket—8 Tooth						
3	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.		14	741-0862		Detent Ball	
					15	732-0863		Detent Spring	
4	711-0854		Output Shaft		16	736-0116		Fl-Wash. .635 I.D. x .93 O.D.	
5	714-0126		#9 Hi-Pro Key 3/16 x 3/4" Dia.		17	716-0106		E-Ring for .625" Dia. Shaft	
					18	716-0865		Snap Ring for .500" Dia. Shaft	
6	717-0123		Trans. Case—L.H. Comp.		19	748-0866		Pinion Gear	
7	748-0855		Flange Bearing		20	748-0867		Bearing .627 I.D.	
8	712-0117		Hex Centerlock ¼-28*		21	738-0159		Pinion Shaft	
9	748-0856		Bevel Gear		22	736-0192		Fl-Wash. .531 I.D. x .93 O.D.	
10	748-0857		Clutch Collar		23	736-0921		Spring L-Wash. ½" Scr.*	
11	08583		Shift Yoke Assembly		24	712-0922		Hex Jam Nut ½-20 Thd.*	
12	717-0124		Trans. Case—R.H.—Comp. (With Detent Hole)		25	737-0120		Grease—High Temp. 450°F. (5 oz.)	
					26	717-0223		Transmission Complete	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

ALABAMA — **BIRMINGHAM**
Auto Electric & Carburetor Co...2625 4th Ave. S. 35233

ARKANSAS — **NORTH LITTLE ROCK**
Sutton's Lawn Mower Shop ..... Rt. 4, Box 368 72117

FORT SMITH
Mity Mite Motors, Inc. ..... 2515 Towson Ave. 72901

CALIFORNIA — **SAN BERNARDINO**
Lawn Mower Supply Co. ..... 25608 E. Baseline 92410

SAN FRANCISCO
J.W. Jewett Co. ..... 981 Folsom St. 94107

SACRAMENTO
Luttig & Severson ..... 2030 28th St. 95818

COLORADO — **DENVER**
South Denver Lawn Equip. .... 527 West Evans 80223

CONNECTICUT — **SUFFIELD**
The Jones & Ramsey Co. ..... 850 Thompsonville Rd. 06078

FLORIDA — **JACKSONVILLE**
Radco Distributors ..... 2403 Market St. 32206

CORAL GABLES
Moz-All of Florida, Inc. ..... 365 Greco Ave. 33146

GEORGIA — **EAST POINT**
East Point Cycle & Key ..... 2834 Church St. 30344

ILLINOIS — **LYONS**
Keen Edge Co. ..... 8615 Ogden Ave. 60534

INDIANA — **ELKHART**
Parts & Sales Inc. ..... 2101 Industrial Pkwy. ..46514

CORYDON
Brown Equip. Dist., Inc. ..... 110 Beech St. 47112

IOWA — **DUBUQUE**
Power Lawn & Garden Equip. . 2551 J.F. Kennedy 52001

KANSAS — **WICHITA**
Hixon, Inc. ..... 3030 Mascot 67204

LOUISIANA — **NEW ORLEANS**
Suhren Engine Co. ..... 8330 Earhart Blvd. 70118

MARYLAND — **TAKOMA PARK**
Center Supply Co. .....6867 New Hampshire Ave. 20012

MASSACHUSETTS — **SPRINGFIELD**
Morton B. Collins Co. ..... 300 Birnie Ave. 01107

MICHIGAN — **MOUNT CLEMENS**
Power Equipment Dist. ..... 36463 South Gratiot... 48043

LANSING
Lorenz Service Co. ..... 2500 S. Pennsylvania .. 48900

MINNESOTA — **MINNETONKA**
Hance Distributing Inc. ..... 11212 Wayzata Blvd. ..55343

MISSISSIPPI — **BILOXI**
Biloxi Sales & Service, Inc. ....506 Caillavet St. 39533

MISSOURI — **KANSAS CITY**
Automotive Equip. Service ..... 3117 Holmes St. 64109

ST. LOUIS
Henzler, Inc. ..... 2015 Lemay Ferry Rd. 63125

NEBRASKA — **OMAHA**
R.P.W., Inc. ..... 7402 "L" St. 68127

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson —

NEW YORK — **CARTHAGE**
Gamble Dist., Inc. ..... West End Ave. 13619

SYRACUSE
Kimber's, Inc. ..... 115 N. Geddes St. 13204

ROCHESTER
Henry W. O'Neil & Associates ..410 N. Goodman St. ... 14609

NORTH CAROLINA — **GREENSBORO**
Dixie Sales Company ..... 327 Battleground Ave.. 27402

GOLDSBORO
Smith Hardware Co. ..... 515 N. George St. 27530

OHIO — **WADSWORTH**
National Central ..... 687 Seville Rd. 44281

CLEVELAND
Bleckrie, Inc. ..... 7900 Lorain Ave. 44102

CARROL
Stebe's Mid-State Mower Supply Box 366 43112

WILLARD
Sunshine Wholesale Tire Outlet Route 224 44890

MANSFIELD
McClure Lawn & Garden Supply...1114 Lexington Ave. . 44903

OKLAHOMA — **MUSKOGEE**
Victory Motors, Inc. .....605 S. Cherokee 74401

ADA
Ada Auto Supply ..... 301 E. 12th St. 74820

OREGON — **PORTLAND**
Kenton Supply Co. .....8216 N. Denver Ave. . 97217

PENNSYLVANIA — **LANCASTER**
Raub Supply Co. ..... James & Mulberry Sts...17604

PITTSBURGH
Bluemont Co. ..... 11125 Frankstown Rd.. 15235

TENNESSEE — **KNOXVILLE**
Master Repair Service ..... 2423 Broadway, N.E. ..37917

MEMPHIS
Memphis Cycle & Supply Co. .... 421 Monroe Ave. 38103
American Sales & Service, Inc.. 1922 Lynnbrook 38117

TEXAS — **DALLAS**
Marr Brothers, Inc. ..... 423 E. Jefferson 75203

HOUSTON
Bullard Supply Co. ..... 2409 Commerce St. 77003

SAN ANTONIO
Catto & Putty, Inc. ..... P.O. Box 2408 78206

FORT WORTH
Woodson Sales Corp. ..... 1702 N. Sylvania 76111

UTAH — **SALT LAKE CITY**
A-1 Engine & Mower Co. ..... 437 E. 9th St. 84111

VERMONT — **BURLINGTON**
Vermont Appliance Co. ..... 44 Lakeside Ave. 05401

VIRGINIA — **RICHMOND**
RBI Corp. ..... 963 Myers St. 23260

WASHINGTON — **SEATTLE**
Bailey's Rebuild, Inc. ..... 1325 E. Madison St. ...98102

WEST VIRGINIA — **CHARLESTON**
Young's, Inc. .....233 Virginia St., E. ... 25301

WISCONSIN — **APPLETON**
Automotive Supply Co. ..... 123 S. Linwood Ave. ..54911

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture, It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number** of unit involved.
2. **Date unit was purchased** or first put into service.
3. **Date of failure.**
4. **Nature of failure.**