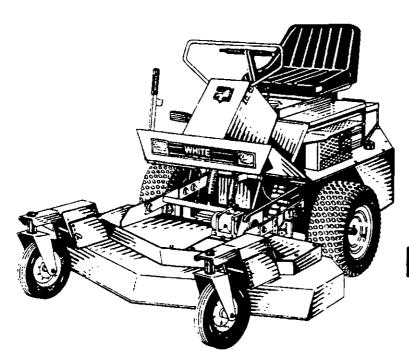


1

OUTDOOR PRODUCTS OWNER'S GUIDE

TURF BOSS GROUNDSKEEPING TRACTOR



FR-12

138-002-190

FR-18

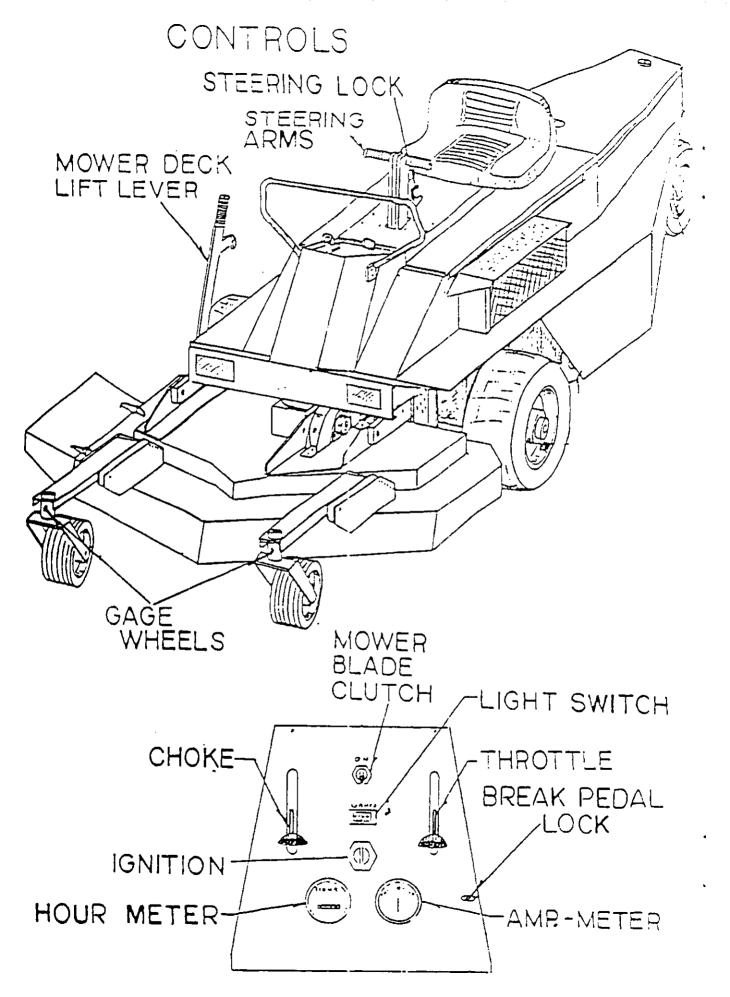
138-003-190

FR-18C

138-004-190

FR-18CH

138-024-190



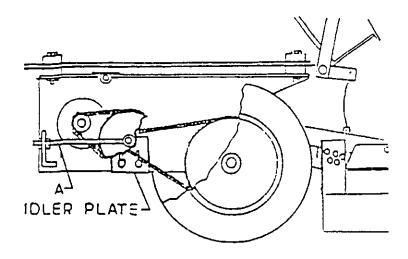


To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

- Read this owner's manual carefully in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
- Know the controls and how to stop quickly— READ THIS OWNER'S MANUAL.
- 4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
- No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
- Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
- 7. To prevent injury, do not carry passengers or give rides. Keep children, pets and bystanders out of the area while mowing. Only the operator should ride on the unit and only ride in the seat.
- 8. Check overhead clearance carefully before driving under power lines, guy wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious initary.
- To maintain control of the unit and reduce the possibility of upset or collision, operate the tractor smoothly. Avoid erratic operation and excessive speed.
- 10. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction and cause injury.
- Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
- Stop the blade(s) when crossing gravel drives, walks or roads.
- Disengage all attachment clutches and shift into neutral before attempting to start engine.
- 14. Disengage power to attachment(s) and stop engine before leaving operating position.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.

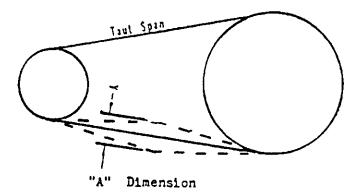
- 16 Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
- 17 Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire ind keep the wire away from the plug to preve t accidental starting.
- 18 Disengage power to attachment(s) when transporting or not in use.
- 19 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.
- 20. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face. Use extreme caution if it is necessary to drive the tractor up an incline or back the tractor down an incline because the front of the tractor could lift and rapidly flip over backward which could cause serious injury.
- 21 Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Always keep the tractor in gear when going down steep hills to take advantage of engine braking action.
- 22 Stay alert for holes in terrain and other hidden hazards.
- 23 Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - 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.
- 24 Watch out for traffic when crossing or near roadways.
- When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
- 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.
 - Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.



CHAIN ADJUSTMENT

To tighten chain, loosen idler plate and support collar (A). Pull downward on idler plate, checking to make sure that each chain has equal tension by moving idler plate from side to side. Then tighten bolts securely.

Tighten chain as por drawing below.



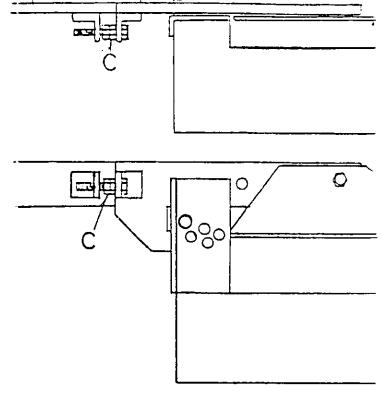
Primary chain 3/8 - 1/2 inch Final chain 1/2 - 3/4 inch

NOTE: All pulleys and transmission sprockets have been installed with a product called LOCKTITE - RC-609.

To remove pulleys or sprockets, loosen set screws and heat pulley or sprocket to approximately 250 degrees. Then use pullers to remove pulley or sprocket.

DO NOT USE EXCESSIVE FORCE AS IT WILL BEND THE PULLEYS.

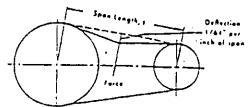
USE CAUTION WHEN HANDLING HEATED PARTS:



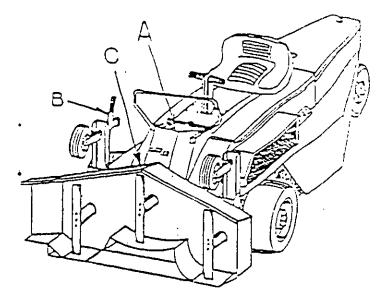
DECK DRIVE BEIT
ADJUSTMENT

To tighten deck bolt, loosen bolt A and B, then by rotating bolt C counter-clockwise belt will tighten. BOTH SIDES MUST BE DONE THE SAME. After belt has been adjusted tighten bolt A and B.

DO NOT OVER-TIGHTEN BELT, see below.



DECK CARE AND ADJUSTMENTS



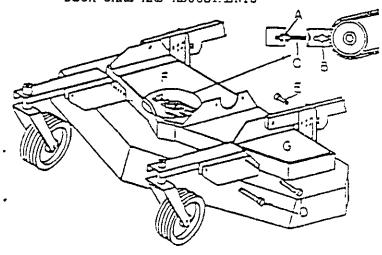
HOW TO TILT MOWER DECK BACK

CAUTION: Never tilt mower deck with engine running. Remove ignition key.

To tilt mower deck disengage mower blade clutch(A). Apply enough pressure on the deck lift lever(B) to remove deck pins(E), (see deck care & adjustment drawing). Then raise deck up with deck lift lever(B) just high enough that the rear of the deck clears the ground. Pull upwards with your right hand on the center of the deck(indicated by point C) until the deck is in a vertical position. While holding the deck place pin E in hole(part G) to hold the deck in vertical position.

Deck can be returned to the original position by reversing the steps above. CAUTION: Keep hands away from deck pin area when returning deck to original position.

DECK CARE AND ADJUSTMENTS



Periodically or no longer than 40 hours of mowing time remove deck covers (F & G) and clean out grass clippings.

HOW TO TIGHTEN DECK BELT WARNING: TURN OFF ENGINE AND REMOVE IGNITION HEY!

Remove deck cover(F)* and loosen nut(A)* and bolt(B)*. By shortening bolt(C)* deck belt will tighten. After belt is tightened, retighten nut(A)* and bolt(B)*

WARNING: DO NOT TIGHTEN BELT TO EXCESS

HCW TO ADJUST MOWER DECK HEIGHT

FLACE MOVER ON LEVEL SURFACE

Aljusting leck height is done by removing gage wheel pins(D)*. Move gage wheel up or down to desired height. After gage wheels are adjusted and pins(D)* are returned, the back of the deck must be adjusted by removing deck pins(E)*. The rear of the deck should be 1/8 to 1/4 inch higher than the front for best cutting results, except on 42" decks where under some conditions it will work better approximately 3/16 inch lower in rear.

BLADE CARE

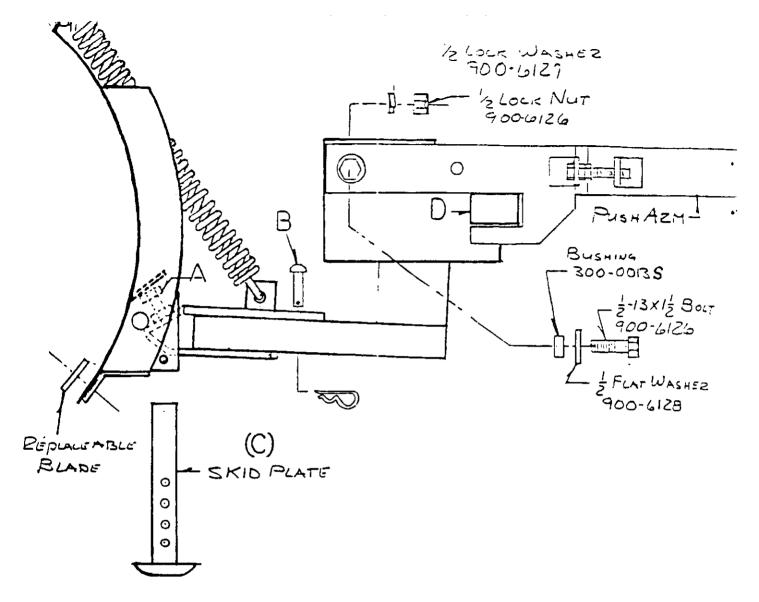
For best results, cutting blade must be kept sharp. The blade can be sharpened with a few strokes of a file, or on a grinding wheel. <u>BO NOT ATTEMPT TO SHARPEN WHILE ON MOWER</u>.

When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before reinstallation on the mower. Unbalanced or bent blades will cause excessive vibration when running, and eventually damage the mower gear box. An inexpensive blade balancer may be purchased from your dealer. To insure satisfactory operation, it is recommended that before the start of each mowing season, the old blades be discarded and replaced with new blades if worm excessively.

CLEANING MOWER DECK

MOWER DECK SHOULD BE CLEANED AFTER EACH CUTTING FOR BEST CUTTING RESULTS Water pressure from a garden hose can be used in cleaning underside of deck housing, if cleaned immediately after use, before clippings under mower has a chance to dry out. This should be done whenever an accumulation of grass builds up under mower.

* Refer to deck care and adjustment drawing



DOZER BLADE ATTACHMENT

Install dozer blade between push arms of tractor making sure that block (D) is in the slot. (See drawing above) Now by using bolts shown above, bolt in place.

NOTE: It is not necessary to remove deck drive belt.

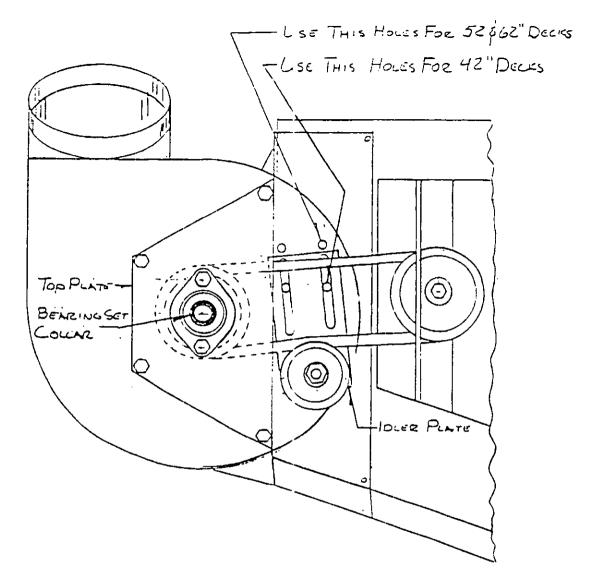
DCZER BLADE ADJUSTMENT

There are three adjustments, at point (A) is for tilting blade front to back, this is done by simply changing length of the bolt. Point (B) is for swiveling blade from side to side. Point (C) is the skid plate, they are used to adjust the height of the cutting edge

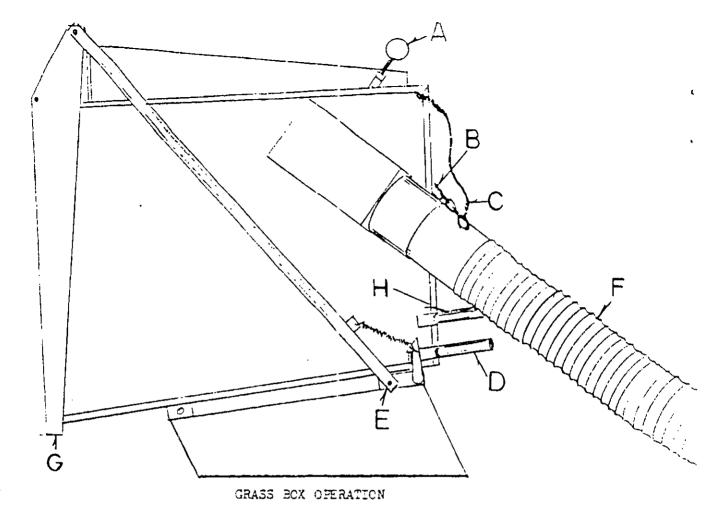
The replaceable blade is reversable fo lorger life.

LUBRICATION

All moving parts should be ciled with a light weight oil.



- 1. Replace spindle shaft.
- 2. Remove grass chute and mount
- 3. Set blower in place
- 4. Clamp blower down
- 5. Use a 1/4in. drill bit and drill through mounting holes. (There is 3 holes)
- 6. Using 1/4-20x3/4 bolts, nuts and lock washers, bolt blower to deck
- 7. Bolt idler bracket plate down to top of blower. (See drawing to determine which holes to use
- 8. To put belt on remove the four bolts in top plate. Turn top plate 90 degrees and tip enough to get belt between blower and top plate. Turn top plate back and leave the two bolts closest to the deck out untill the guard is ready to be bolted on.
- 9. Tighten belt (DO NOT TIGHTEN TO EXCESS)
- 10, Bolt guards in place.



The round flag (A) on top of box rotates while box is being filled, when flag quits rotating this means that the box is full.

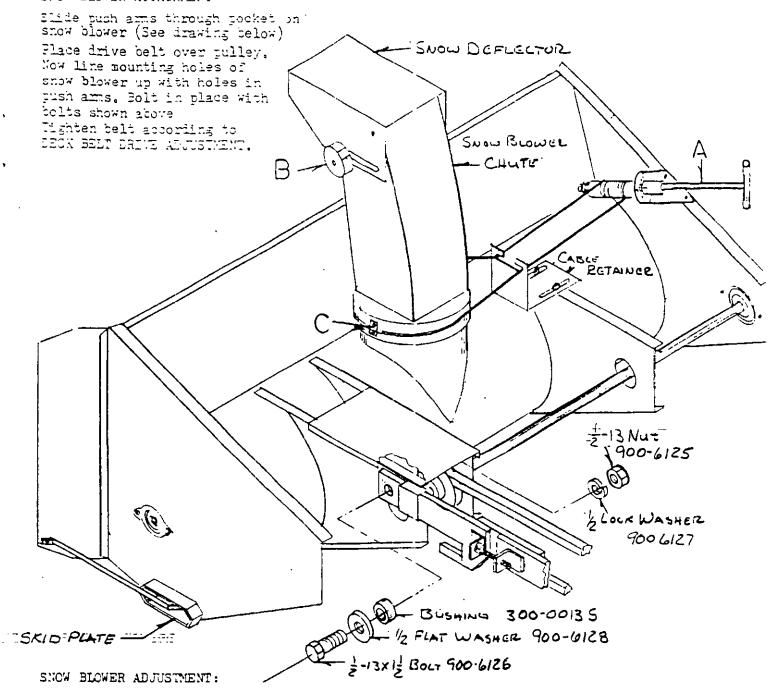
NOTE: Flag will not rotate if tub is pluged up

When grass box is full, drive mower to where you are going to dump the grass, stop mower and put it in neutral and lock levers. turn power to deck off. Unhook chain at point (3) and pull tub (F) out, let tube hang on rope (C). Then with your hand on handle (H) use your fingers and push down on handle (D) and this will release grass box. Drive fowards a little before closing box.

GRASS BOX ADJUSTMENT AND LUBRICATION

If door (G) does not close properly, adjust it at point (E) by loosening bolt and sliding arms (I) to the back, this will make door fit tighter.

LUBRICATE all moving parts with a light weight oil.



To adjust snow blower chute, push handle (A) in and turn, the handle is sping loaded so it will lock back in place.

By loosening knob(B) you can pull snow deflector up and down to designed setting.

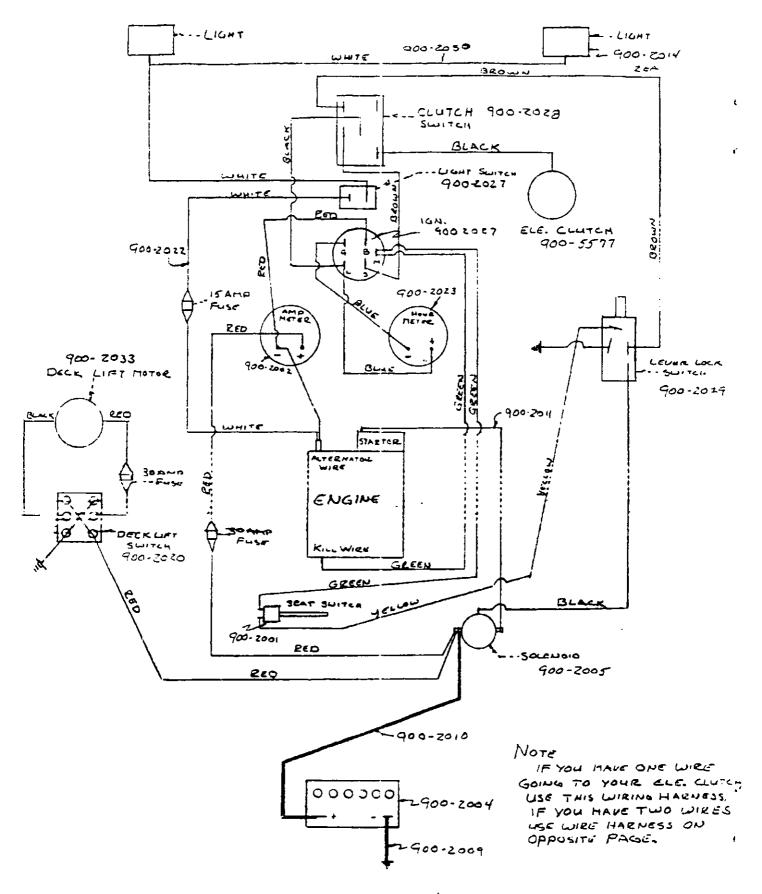
loosening cable retainer will let you tighten cable, if cable can not be tightened enough, then you will have to loosen cable clamp at point (C) and pull cable up tight.

Skid shoes should be set up high enough to carry weight of snow blower, if you are clearing a graveled area, skid shoes should be set high enough not to pick up rocks.

(CAUTION) Be sure to direct the snow away from bystanders and objects that can be damaged.

LUBRICATION:

Use a light weight oil on all moving parts. Bearing are sealed, they do not require grease



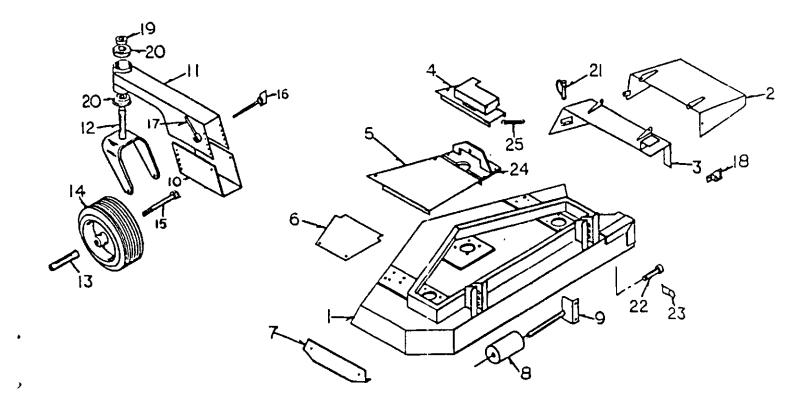
WIRING HARNESS 900-2030 FRIBE FRIBE ONLY

BASE ____FRII & FRIB, FRIBC & FRIZ 6,2 3

325	PART NO.	110. REQED.	DESCRIPTEDM
1.	201 -0000	1	3CDY .
2.	200-3007	i	GWARD RAIL
3.	200-3603	1	LID FROF
4.	200-0009	2	STEERING LEVER
5.	200-0010	÷	BRANCHO BLOCK, STEERING LEVER
ó.	200-0012	<u>.</u>	Lutch, lever lock
٦.	200-0013	¥	STEERING CABLE END
₹.	200-301-	4	BYSKENG, STEERING CARLE END
₹.	200-0015	÷	SKOY MODON WASHER
13.	200-0017	i	AMIE, TAIL WHEEL (FR11 & FR13)
10.	230 -001 7	1	ANIE, TAIL WHEEL (FR150)
11.	200-3013	1	HC LD CCWN
12.	200-3021	1	BATTERY POST FROTECTOR
13.	201 - 3006	1	DASH_BOARD
14.	201 -0007	1	FUTER L.H.
15.	201-0008	1	FINDER R.H.
15.	201-0004	1	ЩЭ
17.	201 -0009	1	BACK COVER
13.	201 -0010	1	LIVER LOCK
19,	200-0016	1	THE WEST FORK (FS11)
19.	210-0001	1	I.GO WHEEL PORK (7513)
13.	230-3001 200-3001	1	TAIL WHEEL FORK (FF180)
20.	900-2001 900-2002	1	STAT SATTOH
21.	900-2002	1	AMP. METER
22.	900-2003 900-2005	1 1	STARTER SWITCH
23. 24.	900-2004	1	SALEMOTO BACTERY
	•		
25.	900-2023	1	HOUR METER
25. 27.	900-2024	2	LINE
25.	900-2025 900-2026	2 2	BLUB
29.	900-2023	1	LMP
30.	900-2023	1	LIGHT SKITCH
31.	900-2029	1	CLUTH SYITCH SAFTY SYITCH
32	900-3503	2	BEARING, TAIL WHEEL HOUSING
33.	900-3505	2	BEARING, TAIL WHEEL
ν.	900-4004	ī	TAIL WHEL ASSEMBLY (FR11)
34.	900-4014	1	TAIL WHEEL ASSEMBLY (FRIS)
34:	900-4617	ī	TAIL WHITE ASSIMBLY (FRIED)
35.	900-5501	i	STING, LEVER LOCK
36.	900-5500		HAMDLE GRIP
37.	900-5502	3 2 4	STEERING CABLE
3ē.	900-5503		CLAMP
3°.	900-55C6	1	5%A.T
÷¢.	900-5507	1	TROTTLE CABLE
41.	900-5503	ī	CHOKE CABLE
-2.	900-5509	3	RUBBER BODY MOUTE
-).	900-5510	1	SET COLLAR
i i i	900-5513	1	VALVE, FIEL TANK
45.	900-3514	1	रुष्ट्र स्थाप्त
+6 • c	900-5516		FIEL HOSE
47.	900-5516 lea. FR11 2ea.		DECK SEING
<u>ча.</u>	900-5522	1,	DOUS PASTERMER
49	900-5523	4	SPACER, SEAT
50.	900-5525	4	CLAMP, FUEL HOSE
51.	900-5533	1	FELTANK
52	900-5561	1	CAP FIEL TANK
53.	900~5562	2	SPRING
5⊷.	900-5563 201-0001	1	PAD, SRAYE
55. 56.	201 -6001 201 -0002	1	BRAKE LOCK
۽ ت	201-0002	1	TITB, BRAKE LOCK

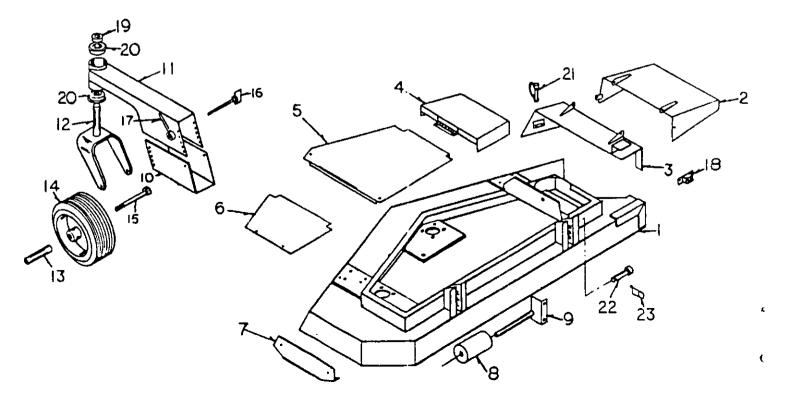
42" DECK PARTS

RLF.	PART NO.	AMT. REQID	DESCRIPTION	REF.	-	AMI. REQID	DESCRIPTION
ι.	310-0000) 1	DECK	14.	900-4004	. 2	CAUCE WHEEL ASY (C Model)
2.	320-0015	5 1	FOUT CUARD		900-4006	ò	11 x 4.00 x 5 TIRE
3.	320-0016	5 1	FOUT CUARD MOUNT		900-4005	j	kim 5"
4.	310-0002	2 1	PULLEY COVER		900-3505	,	HEARING (WHEELASSEMBLY)
5.	320-0000	3 1	CENTER COVER	15.	900-6036	2	AXLE BOLT (Regular Model)
6.	300-0001		LEFT HAND COVER	15.	900-6133	2	AXLE HOLT (C Model)
7.	310-0007	7 1	LEFT HAND SHOE	16.	900~6069	4	WING BOLT
8.	900-5559)]	ANTISCALP ROLLER	17.	900-6092	2 4	HANDLE NUT
У.	300-0038	3 Î	SHAFT & BRACKET	18.	900-2044		10 AMP CIRCUIT BRAKER
10.	300-0044	. 2	CAUGE WHEEL MOUNT BRACKET	19.	900-5510	2	1" SET COLLAR
11.	300-0040	1 2	CAUCE WHEEL MOUNT	20.		_	I" BEARING
12.	320-0018	3 2	FORK (Regular Model)	21.	900-5615		FAS-TATCH PIN
12.	330-0007	7 2	FURK (C Model)	22.	900-5519	_	DECK PIN
13.	320-6600	-	AXLE (Regular Model)	23.		_	HAIR PIN COTTER
13.	200-0017	_	AXLE (C Model)	24.	310-0004	_	DECK HOUNT
14.	900-4007	_	CAUGE WHEEL ASY. (Regular Model)				SPRING
- •	900-3510	_	BEARING (WHEEL ASSEMBLY)		,	•	



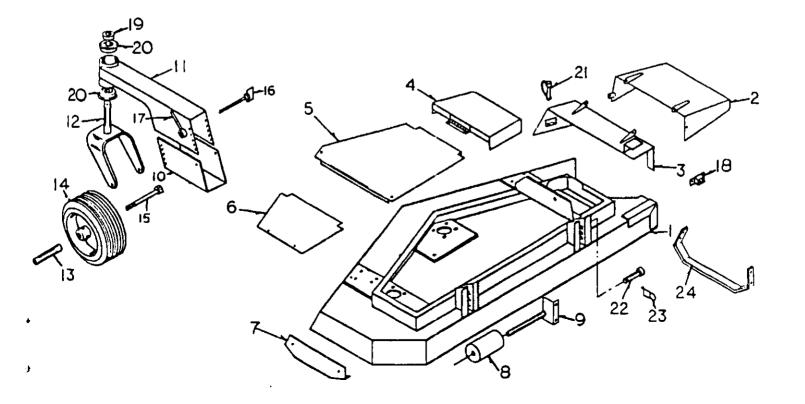
52" DECK PARTS

REF.		AMT. REQ'D	DESCRIPTION	REF.		AMT. REQ'D	DESCRIPTION
1. 2. 3. 4. 5. 7. 8. 9. 10. 11. 12.	320-0000 320-0015 320-0016 320-0013 320-0001 320-0014 900-5559 300-0038 300-0044 330-0007 200-0017	1 1 1 1 1 1 1 1 2 2 2 2 2	52" DECK FOOT GUARD FOOT GUARD MOUNT PULLEY COVER CENTER COVER LEFT HAND COVER LEFT HAND SHOE ANTISCALP ROLLER SHAFT & BRACKET GAUGE WIGEEL MOUNT BRACKET FORK AXLE	14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	400-4004 600-4005 600-4005 600-6036 600-6096 600-6092 900-2044 900-3510 600-3513 600-5519 600-5519	2 4 1 2 4 1 2	GAUGE WHEEL ASSEMBLY 11 x 4.00 x 5 TIRE RIM 5" BEARING (WHEEL ASSEMBLY) AXLE BOLT WING BOLT HANDLE MUT 10 AMP CIRCUIT BREAKER 1" SET COLLAR 1" BEARING FAS-TATCH PIN DECK PIN HAIR PIN COTTER



62" DECK PARTS

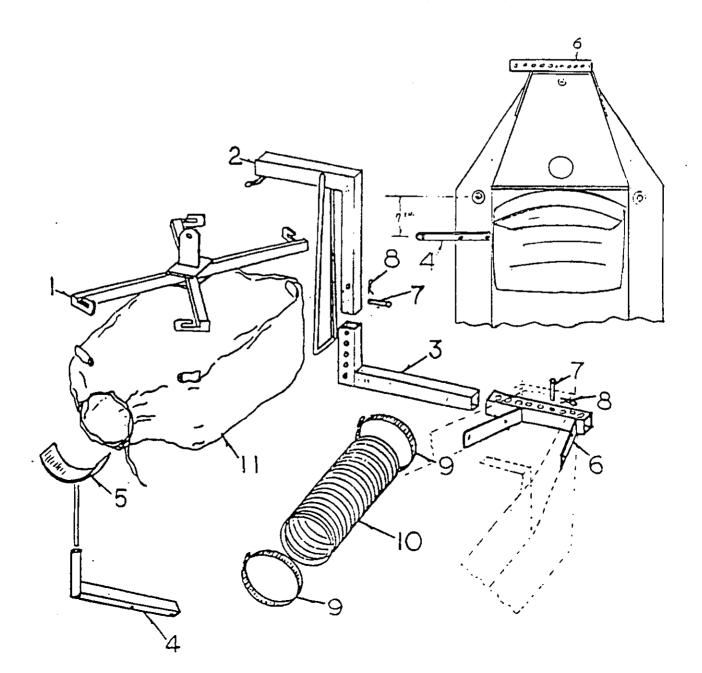
REF. NO.		ΑΜΤ. REQ'D	DESCRIPTION	REF.		AMT. REQ'D	DESCRIPTION
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	330-0000 330-0027 330-0028 330-0012 330-0001 330-0001 330-0038 300-0044 300-0047 200-0017	1 1 1 1 1 1 1 2 2 2 2 2	62" DECK FOOT CUARD FOOT CUARD MOUNT MILLEY COVER CENTER COVER LEFT HAND COVER LEFT HAND SHOE ANTISCALP ROLLER SHAFT & BRACKET GAUGE WHELL MOUNT BRACKET CAUGE WHELL MOUNT FORK AXLE	15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	9(0-4004 9(0-4006 9(0-4005 9(0-3505 9(0-6133 9(0-6096 9(0-6092 9(0-2044 9(0-3501 9(0-3501 9(0-5519 9(0-5520 330-0011	2 4 4 1 2 4 1 2 2	GAUCE WHEEL ASSEMBLY 11 x 4.00 x 5 TIRE RIM 5" BUARING (WHEEL ASSEMBLY) AXLE BOLT WING BOLT HANDLE NUT 10 AMP CIRCUIT BREAKER 1" SET COLLAR 1" BEARING FAS-TATCH PIN DECK PIN HAIR PIN COTTER RIGHT HAND SHOE



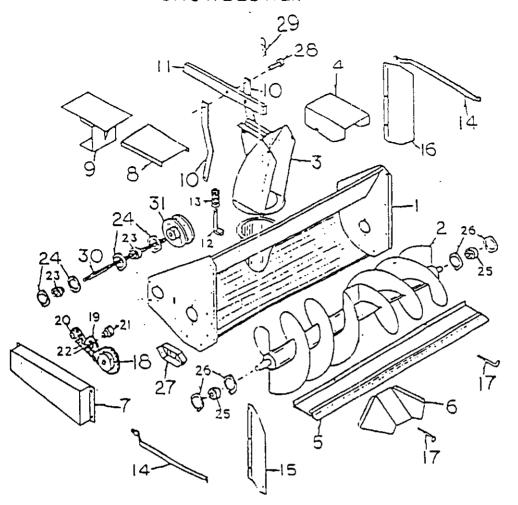
BLOWER ASSEMBLY

REF. NO.	PART NO.	QTY, REDD.	DESCRIPTION
1.	400-0000	1	Blower Housing 42" & 52" Deck
1.	400-0007	1	Blower Housing 62" Deck
2.	400-0001	1	Blower Cap
3.	400-0002	1	Blower Bearing Plate
4.	400-0003	1	Blower Blade Assembly
5•	400-0004	1	Blower Blade
6.	400-0005	1	Belt Tightener
7.	300-0033	1	Long Spindle Shaft 42"&52" Deck
7•	300-0040	1	Long Spindle Shaft 62" Deck
8.	900-2507	1	Pulley 42" Deck
9.	900-2501	1	Idler Pulley
10.	900-2523	1	Blower Pulley
11.	900-3010	1	Belt 42" Deck w/16 or 18 HP
. 11.	900-3013	1	Belt 42" Deck w/ 12.5 HP
11.	900-3000	1	Belt 52" Deck
11.	900-3014	1	Belt 62" Deck
12.	300-0021	3	Key
13.	900-3508	4	Flange
14.	900-3509	2	3/4" Bearing w/ lock collar
15.	900-2507	1	Spindle Pulley 42" Deck w/ 16 or 18 HP
15.	900-2528	1	Spirdle Pulley 42" Deck 4/ 12.5 HP
16.	900-2511	2	Spindle Pulley 52" Deck
16.	900-2512	2	Spindle Pulley 62" Deck

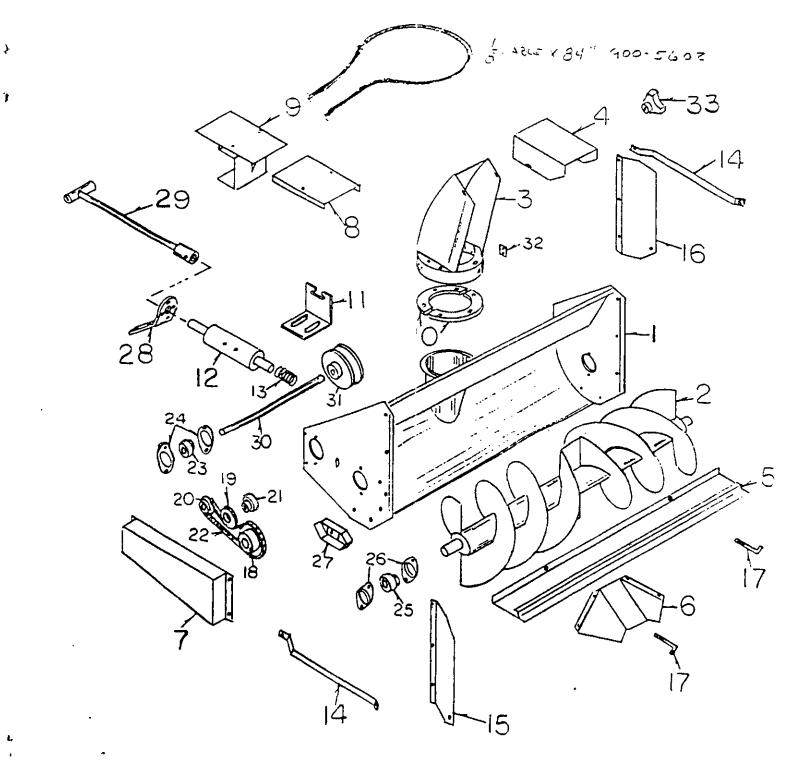
	REF.	PART NO.	NO. REQET	DESCRIPTION
	1.	410-0000	1	GRASS BAG HANGER
,	2.	410-0001	1	VERTICAL ARM
>	3.	410-0002	1	HORIZONTAL ARM
	4.	410-0003	1	HANCER BRACKET
	5.	410-0004	1	VAC HOSE SADDLE
2	6.	410-0005	i	REAR MOUNTING BRACKET
	7.	900-5555	2	PINS
	8.	900-5520	2	HAIR PINS
	9•	900-5550	2	HOSE CLAMP
	10.	900-5551	1	HOSE
	11.	900-5553	1	BAC
	4 & 6	900-6050	6	5/16-13 Nut
	4 & 6	900-6051	6	5/16 LOCK WASHER
	4 & 6	900-6054	6	5/16-18 x 3/4 BOLT



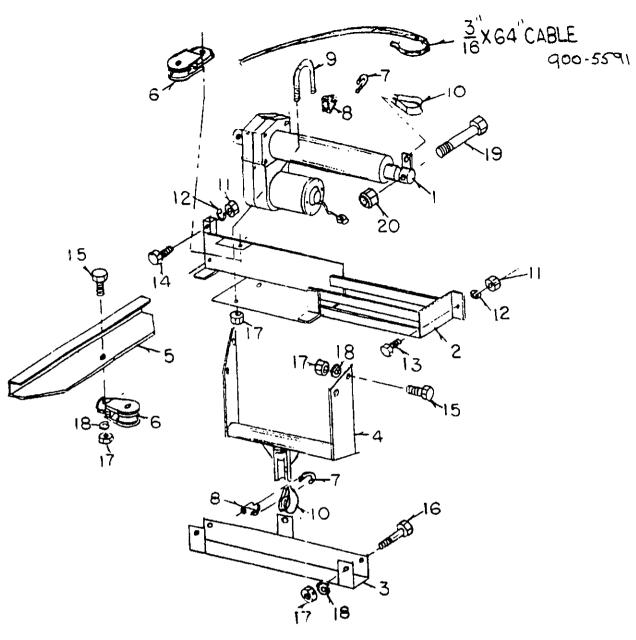
SNOWBLCWER



REF.	PART	:o.	
NO.	30.	ಜಾಭಾ.	DESCRIPTIONS
1.	430-cood	1	SNOWBLOWER HOUSING
2.	430-0001	1	AUCER
3.	430-0002	1	CHUTE
4.	430-0003	1	SNOW DEFLECTOR
5.	430-0004	ì	BLADE
6.	430-0005	Ī	SNOW RETAINER
7.	430-0006	i	CHAIN GUARD
8.	430-0007	1	SELTGUARD (used with ele. cluthed sowers only)
9.	430-0008	1	BELT RETAINER (used on mechanical clutched mover only)
10.	430-0009	2	CHUTE LOCK LINKACE
11.	430-0010	1	HANDLE
12.	430-0011	1	CHUTE LOCK
13.	900-557 9	1	CHUTE LOCK SPRING
14.	430-0012	2	EXTENDER BRACES
15.	430-0013	1	R.H. EXTENDER
16.	433-0014	1	L.H. EXTENDER
17.	430-0015	2	PLADE BOLT
18.	900-1508	i	AUGER SPROCKET
19.	900-1507	i	IDLER SPROCKET
20,	900-1506	1	DRIVE SPROCKET
21.	430-0016	1	IDLER SPROCKET BUSHING
22.	900-1006	1	CHAIN
23.	900-3509	ž	3/4 BEARING
24.	900-3508	L.	3/4 BEARING FLANCE
25.	900-3512	2	11n. BEARING
26.	900-3511	4	lin. BEARING FLANCE
27.	430-0017	2	SICID SHOES
28.	900-5519	i	PIN
29.	900-5520	1	HAIR PIN
30.	430-0018	ţ	SHAFT
31 .	900-2510	i	PULLEY



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REF. NO.	PART NO.	NO. REQD.	DESCRIPTION
1.	900-2033	1	Actuator
2.	450-0000	1	Actuator Mount
3.	450-0002	1	Deck Lift Adapter
4.	450-0003	1	Cable Mount (Nose)
5.	450-0001	1	Cable Mount (Side)
6.	900-5589	2	Cable Pulley
7.	900-5503	$ar{ extbf{2}}$	U-Bolt (Cable)
	900-5593	2	Cable Clamp
8. 9.	900-5592	Ĩ	U-Bolt (Actuator)
10.	900-5599	2	Cable Thimble
11,	900-6026	3	1/4-20 Nuts
12.	900-6028	3	1/4 Lock Washers
13.	900-6039	Ī	1/4-20 x 3/4
14.	900-6031	2	1/4-20 x 1
15.	900-6056	4	5/16-18 x 1
16.	900-6061	2	5/16-18 x 2
17.	900-6050	6	5/16-18 Nut
18.	900-6051	6	5/16 Lock Washers
19.	900-6136	1	1/2-13 x 4
20.	900-6126	1	1/2-13 Lock Nut