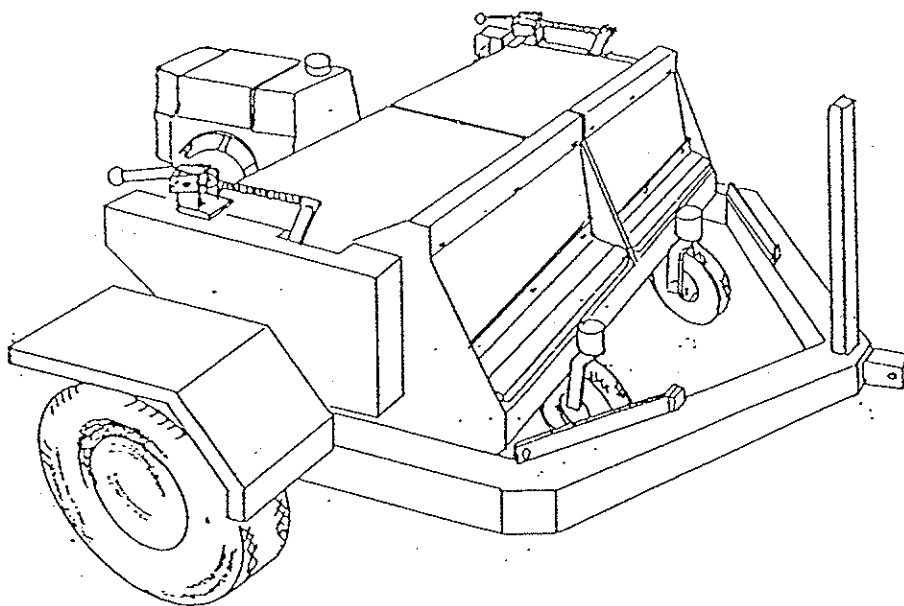


Salsco, INC.

LEADER BY DESIGN

MODEL FTA 60-24 CORE AERATOR
FTA 60-12

OWNER'S MANUAL
PARTS MANUAL
SERVICE MANUAL



SALSCO, INC.
TURF EQUIPMENT DIVISION
105 SCHOOL HOUSE ROAD
CHESHIRE, CONN. 06410 USA

* NOTE: PLEASE READ "CAUTIONS" IN THIS MANUAL

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* *
* YOU HAVE JUST PURCHASED THE HIGHEST QUALITY, *
* MOST MANEUVERABLE AERATOR ON THE MARKET TO- *
* DAY. THIS UNIT HAS THE ABILITY TO MEET THE *
* EXACT AERATING STANDARDS AND PERFORM FOR *
* YEARS WITH MINIMUM DOWN TIME. HOWEVER, IT *
* CAN NOT READ NOR WILL IT UNDERSTAND THIS *
* MANUAL NO MATTER HOW LONG YOU LEAVE IT ON *
* TOP OF THE MACHINE. IT IS YOUR RESPONS- *
* IBILITY TO READ AND UNDERSTAND IT. *
* SHOULD YOU CHOOSE NOT TO READ AND UNDER- *
* AND PASS ALONG THE INFORMATION PROVIDED YOU, *
* PLEASE EXPECT EQUIPMENT FAILURE AND POSSIBLE *
* INJURIES TO PERSONS AROUND THIS EQUIPMENT. *
* *
* FOR THE SAFETY OF THE OPERATOR, IT IS *
* IMPERATIVE THAT THIS MANUAL IS CAREFULLY *
* READ AND UNDERSTOOD. *
* *
* HAVING READ THIS MANUAL, IT IS YOUR RESPONS- *
* IBILITY TO BE SURE THAT ALL NEW OPERATORS *
* READ AND UNDERSTAND THIS MANUAL ESPECIALLY *
* THE "CAUTIONS" ON PAGE 5. *
* *

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

MANUFACTURED BY: SALSCO, INC.
TURF EQUIPMENT DIVISION
105 SCHOOL HOUSE ROAD
CHESHIRE, CONNECTICUT 06410
203/271-1682
FAX (203) 271-2596

CORE-AERATORS OWNER'S MANUAL

THIS MANUAL COVERS MODELS: FTA 60-24 * FTA 60-12

This company reserves the right to discontinue, add improvements to, or change the design of any model or product at any time without obligation to improve existing machines, either by changing the design or adding new parts.

It has been and will continue to be the policy of SALSCO to update existing machines at its own discretion. Whenever possible, new designs will be made in such a way, that they can be "Retro Fit" if so desired.

Record in space provided below the model and serial numbers of this unit. Please retain these numbers for future reference.

No parts orders will be accepted without Model numbers or parts numbers.

<u>Model Number</u>		<u>Serial Number</u>		
<u>Model No.</u>	<u>Prefix</u>	<u>Part Number Code:</u>		
		<u>Model</u>	<u>Part Number*</u>	
FTA	= 502	000	A	000

* PART NUMBER PREFIX MUST BE USED WHEN ORDERING PARTS (___A000).
PREFIX NUMBER IS LISTED ABOVE.

**** CAUTION ****

READ AND UNDERSTAND THIS MANUAL BEFORE STARTING MACHINE!!

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

DESCRIPTION

Our machines are available in widths from 30" to 84". Salsco can handle all lawncare and golf course requirements for aeration.

FTA models are completely self-contained units which may be towed easily by almost any vehicle. Controls are electric over hydraulic via retractable electric cord which is pulled to operator's seat. The "Salsco Camshaft Free-Floating Tine System" can be raised and lowered hydraulically from the seat. The speed and hole spacing is set by the tow vehicle. This unique feature allows the operator to change hole spacing according to conditions without stopping the machine (see page 5).

Using the camshaft method of aeration ensures neat, clean plugs removed without jamming in the tines. This method enables our machines to outperform much heavier machines without tearing up the turf.

Depending on model of unit, penetration is from 2 3/4" to 4" with a choice of 1/4", 3/8", 1/2", 5/8", or 3/4" diameter heat-treated tines. Tines can be purchased hollow, solid, or carbide tipped.

All FTA Models come equipped with a 16 HP Kohler Magnum.

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

"CAUTION"

BEFORE YOU START THIS MACHINE:

1. READ AND UNDERSTAND OWNER'S MANUAL.
2. DO NOT RUN WITHOUT GUARDS AND OTHER SAFETY COVERS ON MACHINE.
3. NEVER LEAVE MACHINE RUNNING WHILE UNATTENDED.
4. NEVER REACH UNDER OR INTO MACHINE FOR ANY REASON WHILE MACHINE IS RUNNING AS IT CAN CAUSE SERIOUS INJURY.
5. DO NOT LET ANYONE WALK NEXT TO OR IN FRONT OF MACHINE WHILE IN OPERATION.
6. NEVER RUN OVER ASPHALT OR CONCRETE OR ANY OTHER MATERIAL WHICH CANNOT BE AERATED WITH THE TINES IN THE LOWERED POSITION.
7. ALWAYS REMOVE SPARK PLUG WIRE, MAKE SURE ENGINE SWITCH IS OFF, THROTTLE IS IN STOP POSITION AND SHUT GAS OFF WHEN WORKING ON OR CHECKING INSIDE OF MACHINE.
8. WHEN RAISING UNITS, RAISE COMPLETELY UNTIL MOTOR COMES TO IDLE. DO NOT LET UNITS RUN FULL RPM UNLESS TINES ARE IN THE GROUND.
9. WHEN SERVICING FTAs BE SURE TO USE SAFETY LOCKS TO HOLD HOUSING IN THE RAISED POSITION. NEVER TRUST HYDRAULICS TO HOLD UNITS UP.
10. DO NOT REMOVE CAUTION DECALS.
11. SAFETY DECALS SHOULD BE REPLACED IMMEDIATELY AFTER REPAINTING OR WHEN THEY BECOME ILLEGIBLE. ** SEE NOTE BELOW **

SAFETY IS A PRIME CONCERN AT SALSCO AND THE SAFETY DECALS ON YOUR MACHINE ARE A HIGHLY VISIBLE AND CONSTANT REMINDER TO ALL OPERATORS. REPLACEMENT SAFETY DECALS MAY BE OBTAINED FROM YOUR LOCAL DEALER OR BY CALLING TOLL FREE 1-800-8SALSCO.

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

(090788)

THINK SAFETY

SPECIFICATIONS

	<u>FTA 60-12</u>	<u>FTA 60-24</u>
<u>MODEL</u>	84"	84"
<u>AERATION WIDTH</u>	55"	55"
<u>HOLE CENTERS</u>	4 1/2 x 1" TO 6	2 1/4 x 1" TO 6
<u>HOLES-SQ. FT.</u>	(SEE CHART PAGE 2)	
<u>PLUG DIAMETER</u>	1/4", 3/8", 1/2", 5/8", 3/4"	
<u>SPEED</u>	VARIABLE FOR BOTH MODELS. SPEED DETERMINES THE HOLE SPACING. (SEE CHART PAGE 2).	
<u>SQ. FT. PER HR.</u>	(SEE CHART PAGE 2)	
<u>WEIGHT/LBS</u>	1200lbs.	1200lbs.
<u>ENGINE</u>	16 HP KOHLER MAGNUM ENGINE.	
<u>TIRES</u>	BOTH HAVE 18.5 x 9.50 REAR - SWIVEL PNEUMATIC 2.8 X 4 ADJUSTABLE HEIGHT - FRONT.	

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

SERVICE SCHEDULE

<u>ITEM</u>	<u>FREQUENCY</u>
CHECK ENGINE OIL	DAILY
CHECK NUTS AND BOLTS FOR TIGHTENING	DAILY
CHECK SPROCKETS FOR ALIGNMENT & TIGHTNESS	DAILY
CHECK TINES FOR CLOGGING & SHARPNESS	DAILY
CHECK ALIGNMENT OF ROCKER ARMS LEFT TO RIGHT (PG-7)	DAILY
GREASE FRONT WHEELS	DAILY
GREASE ROCKER ARM BEARINGS (USE LITHIUM BASE GREASE EP#2)	DAILY
CHECK RUBBER TINE GUIDES (MUST ROTATE)	DAILY
CHECK ENGINE GEAR BOX OIL	WEEKLY
WASH MACHINE (as needed)	WEEKLY
CHECK ENGINE AIR CLEANER	DAILY
CHANGE HYDRAULIC FILTER	BI-MONTHLY
CHECK HYDRAULIC OIL (Citgo AW32 or equal)	WEEKLY
CHECK WATER IN BATTERY	WEEKLY
RE-GREASE WHEEL BEARINGS	YEARLY
CHECK ENGINE MANUAL FOR ROUTINE MAINTENANCE	
MOTOR RPM SHOULD BE BETWEEN 3400 AND 3600 R.P.M. THIS SHOULD NOT BE CHANGED.	
RELEASE BOTH CLUTCH HANDLES.	
IF STORED OVER TWO WEEKS, RELAX SPRINGS BY REMOVING SPRING PINS.	

THINK

SAFETY

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

MODEL FTA 60-24 & FTA 60-12

DIRECTIONS TO CHANGE A TINE ON MODEL FTA 60-24 & FTA 60-12:

1. BE SURE BOTH HOUSINGS ARE IN THE RAISED POSITION WITH FRAME LOCKS AND PINS INSTALLED.
2. REMOVE SPARK PLUG WIRE.
3. SHUT GAS OFF.
4. REMOVE FRONT COVER (ITEM 44-PAGE 12) ON SIDE TO BE WORKED ON.
5. REMOVE BELT GUARD (ITEM 63-PAGE 12).
6. DISENGAGE CLUTCH HANDLE (ITEM 52-PAGE 11).
7. REMOVE BELT (ITEM 30-PAGE 12).
8. ROTATE PULLEY (ITEM 31-PAGE 12) UNTIL TINE TO BE CHANGED IS IN ITS UPMOST POSITION. HOLD SPRING (ITEM 11-PAGE 12) LIFT AND REMOVE PIN (ITEM 34-PAGE 11). (WEAR GLOVES AND DON'T GET YOUR FINGERS UNDER SPRING PIN CLIP).
9. REMOVE BOLT (ITEM 17-PAGE 12) WHICH WILL ALLOW YOU TO REMOVE SPRING (ITEM 11-PAGE 12) AND BEARING (ITEM 12-PAGE 12) ON FTA 60-12 (ONLY). ON THE FTA 60-12 THE TINE HOLDER (ITEM 18-PAGE 12) IS ONE PIECE WITH TINE AND MUST BE REPLACED AS ONE.
10. REMOVE BOLT (ITEM 17-PAGE 12) AND TINE ARM (ITEM 18-PAGE 12).
11. PLACE THE ARM IN VISE, BEND LOCKING CLIP (ITEM 22-PAGE 12) TO REMOVE BOLTS (ITEM 20-PAGE 12), REPLACE TINE (ITEM 19-PAGE 12) AND CLIP (ITEM 22-PAGE 12), INSTALL BOLTS (ITEM 20-PAGE 12) AND BEND CLIP OVER BOLTS.
12. REPLACE TINE ARM (ITEM 18-PAGE 12) WITH SPRING (ITEM 11-PAGE 12) AND NEW TINE (ITEM 19-PAGE 12), INSTALL BOLT (ITEM 17-PAGE 12).
13. HOLD SPRING (ITEM 7-PAGE 12) WITH RIGHT HAND AND RAISE THROUGH SLOT IN FRAME AND PIN HOLDER (ITEM 33-PAGE 11), INSTALL PIN (ITEM 34-PAGE 11).

NOTE: If the FTA 60-12 has single tines instead of double tines, replace the arm and tines as one unit (Item 18-Page 12).

To adjust holder and tine (Item 18-Page 12) tighten bolt (Item 17-Page 12) and back off until holder or tine can be pushed toward rear of machine and when let go it will return forward on its own.

NOTE: By having a spare set of tines, tine arms, bearings and springs already assembled, you may eliminate steps 8, 10, and 12 above until it is convenient to do so.

* * * * *

CAUTION: DO NOT PLACE FINGER BETWEEN SPRING CLIP (ITEM 11-PAGE 12) AND PIN OVERLAY (ITEM 33-PAGE 11) AS THIS WILL RESULT IN SERIOUS INJURY!

* * * * *

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

TO REPLACE SPRING (ITEM 11-PAGE 12):

1. FOLLOW STEPS 1-8 PAGE 8.
2. REMOVE AND REPLACE SPRING.

TO REPLACE SPRING (ITEM 45-PAGE 12*):

1. REMOVE ADJUSTER NUT AND WASHER (ITEM 39-PAGE 12*).
2. REMOVE AND REPLACE SPRING.
3. FOLLOW STEPS "TO ADJUST ROCKER ARM TENSION" TO COMPLETE (PAGE 8).

TO REPLACE LOWER OR UPPER ROCKER ARM BEARING:

1. FOLLOW STEPS 1-8 PAGE 8.
2. BACK OFF NUT ON ROCKER ARM ADJUSTER (ITEM 39-PAGE 12*).
3. REMOVE BOLT (ITEM 41-PAGE 12*) AND REPLACE BEARING (ITEM 43-PAGE 12*).
4. FOLLOW STEPS "TO ADJUST UPPER ROCKER ARM TENSION" TO COMPLETE.

TO REMOVE ROCKER ARM:

1. FOLLOW STEPS 1-7 PAGE 8, ALSO BACK OFF NUTS ON UPPER ROCKER ARM ADJUSTER (ITEM 39-PAGE 12*).
2. REMOVE GUARDS (ITEMS 63 & 64-PAGE 12*), FRONT END WEIGHT (ITEM 47-PAGE 12*), PIVOT SHAFT RETAINING PLATES (ITEM 49-PAGE 12*), CYLINDER RETAINING PIN (ITEM 62-PAGE 12*) AND BOLT (ITEM 153-PAGE 13*).
3. RAISE AERATOR HOUSING (ITEM 35-PAGE 12*) OR (ITEM 36-PAGE 12*) STRAIGHT UP BY REMOVING FRAME LOCKS (ITEM 72-PAGE 13*) AND PROPERLY BRACING SAME SO AS NOT TO FALL WHILE WORK IS IN PROGRESS (OUR FRAME LOCKS). PART NUMBER N215 CAN AND SHOULD BE ORDERED FOR THIS.
4. MAKE NOTE OF SPACERS AND WHAT SHOULD BE ADDED OR DELETED TO ALIGN BEARINGS ON CAM LOBES WHEN REASSEMBLING.
5. DRIVE OUT ROCKER ARM SHAFT (ITEM 37-PAGE 12*) FROM CENTER OF MACHINE OUT USING BRASS DRIFT PIN.
6. WHEN ASSEMBLING, START ON OUTSIDE INSERTING SHAFT, SPACERS AND ROCKER ARMS AS YOU HAVE NOTED IN STEP 4 ABOVE, WITH NO SPACE LEFT AND ALL BEARINGS RIDING ON CENTER OF CAM LOBES.

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

7. REPEAT STEPS 3, 4, 5 AND 6 FOR OTHER SIDE.
8. REPEAT STEPS 1, 2 AND 3 IN REVERSE ORDER TO ASSEMBLE.
9. BE SURE TO ADJUST UPPER ROCKER ARM TENSION (SEE NEXT SECTION).

CAUTION: WHEN REASSEMBLING, USE SPACERS TO ALIGN ROCKER ARM BEARING WITH CAM LOBE!!

TO ADJUST UPPER ROCKER ARM TENSION:

1. ROTATE CAMSHAFT LOBE TO ITS FORWARDMOST POSITION.
2. TIGHTEN ROCKER ARM ADJUSTER NUT (ITEM 39-PAGE 12*) UNTIL UPPER ROCKER ARM BEARING (ITEM 43-PAGE 12*) JUST TOUCHES LOBE.
3. CONTINUE TIGHTENING TWO COMPLETE TURNS. IT SHOULD BE DIFFICULT TO LIFT BEARING OFF LOBE.

NOTE: When adjusting tension always check spring (ITEM 45-PAGE 12*) to make sure it is not broken.

CAUTION: UPPER ROCKER ARMS LEFT OUT OF ADJUSTMENT CAN CAUSE PREMATURE FAILURE OF SPRINGS (ITEM 11-PAGE 12*), ROLLER BEARING (ITEM 43-PAGE 12*), SPRING (ITEM 45-PAGE 12*), ROCKER ARMS (ITEMS 67, 68, 69, & 42-PAGE 12*). THESE MAY COME OUT OF ADJUSTMENT DURING NORMAL USE SHOULD TIMES PENETRATE TREE ROOT OR OTHER SUBSTANCE THAT MAY CAUSE THEM TO GET STUCK.

CAUTION: WHEN REPLACING ROCKER ARMS OR ADJUSTING ROCKER ARM BEARINGS BE SURE TO ALIGN BEARING (ITEM 43-PAGE 12*) WITH CAMSHAFT LOBE BY ADDING OR DELETING SHIMS (ITEM 38-PAGE 12*).

NOTE: In season, adjustment of Rocker Arm to keep Roller Bearing running true on CAM Lobe is very important. This can be done by slipping a 1" E Ring between Rocker Arms (Part number C218).

All 1988 models are equipped with Lift Rings rather than Upper Rocker Arm. Older models can be changed over to Lift Rings, if so desired. The Lift Rings will cover the noise level and eliminate the need for adjustment of Upper Rocker Arm. (Lift Rings are shown on page 12).

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

DISASSEMBLE MACHINE COMPLETELY FOR WINTER INSPECTION

* * FTA MODELS ONLY * *

1. BLOCK MACHINE FRAME SO TINES CLEAR GROUND 1-2" FRONT & REAR.
2. RAISE HOUSING AND INSTALL SAFETY LOCKS.
3. REMOVE, CLEAN AND DEGREASE WHEEL BEARINGS.
4. REMOVE BATTERY, ADD WATER AND RECHARGE.
5. DRAIN HYDRAULIC OIL AND REPLACE WITH VALVOLINE ANTI-WEAR HYDRAULIC OIL 15032 OR ITS EQUIVALENT.
6. REPLACE HYDRAULIC AIR FILTER.
7. CHECK ALL HYDRAULIC HOSES FOR CHAFING AND LEAKS.
8. REMOVE AND CLEAN OR REPLACE ENGINE AIR FILTERS.
9. DISCONNECT ALL TINE SPRINGS THUS RELEASING PRESSURE ON ROCKER ARMS. (PAGE 8)
10. REMOVE ALL TINE HOLDERS AND TINES FOR INSPECTION AND REPLACEMENT. (PAGE 8)
11. AT THIS TIME CHECK LEFT TO RIGHT MOVEMENT OF ROCKER ARMS, IF EXCESSIVE, REMOVE AND REPLACE BUSHING WHERE NEEDED.
12. ROCKER ARM ROLLER BEARINGS, UPPER AND LOWER, SHOULD BE REPLACED YEARLY.
13. CHECK LIFT RING BEARINGS. THESE SHOULD BE CHANGED YEARLY.
14. INSPECT CAMSHAFT AND CAMSHAFT BEARINGS.
15. INSPECT RUBBER TINE GUARDS.
16. REMOVE BELT GUARD AND REPLACE BELTS.
17. REMOVE CHAIN GUARD AND REPLACE DRIVE CHAIN.
NOTE: THIS CHAIN SHOULD BE CHECKED FOR PROPER ADJUSTMENT ON A REGULAR BASIS. SEE MAINTENANCE SCHEDULE.
18. INSPECT DRIVE SHAFT BEARING AND GREASE.
19. CHECK FRAME AND HOUSINGS FOR CRACKS. FRONT COVERS (ITEM 44-PAGE 11) SHOULD BE INSTALLED WHENEVER UNIT IS OPERATED. THIS COVER IS NOT ONLY THERE FOR YOUR SAFETY, BUT ACTS AS A STRUCTURE MEMBER AND WILL HELP TO PREVENT HOUSINGS FROM CRACKING.

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

MODELS FTA 60-24 & FTA 60-12

YOU HAVE IN NINETEEN (19) STEPS COMPLETELY STRIPPED YOUR CORE AERATOR.

WHEN REASSEMBLING MACHINE, BE SURE TO USE SPACERS TO ALIGN ROCKER ARMS WITH CAM LOBE NOT NECESSARILY ONE BETWEEN EACH ROCKER.

DO NOT STORE WITH TINE SPRINGS ATTACHED. BE SURE TO USE SELF-LOCKING NUTS AND LOCKTILE ON ALL BOLTS.

SOME HELPFUL HINTS:

1. CHECK NUTS AND BOLTS EVERY DAY.
2. CHECK SPROCKET ALIGNMENT EVERY DAY. BE SURE TO CHECK AND ADJUST DRIVE CHAIN IF NECESSARY.
3. CLEAN TINES BY RUNNING DRILL UP TINE EACH DAY.
4. CHECK RUBBER ROLLS.
5. RELAX SPRINGS (IF MACHINE IS STORED FOR PERIODS OF TIME OVER TWO WEEKS).
6. IF MACHINE IS RUN WITHOUT FRONT COVER, DEBRIS WILL COLLECT IN FRONT WHEEL SWIVEL MAKING IT DIFFICULT TO STEER. ALSO, THIS WILL CAUSE CRACKS IN FRAME. BE SURE TO RUN WITH COVER ON.
7. IT IS CHEAPER TO HAVE SPARE PARTS ON THE SHELF THAN TO PAY "NEXT DAY AIR" FREIGHT CHARGES. CONSIDER THE AMOUNT OF WORK THIS MACHINE DOES, SAVE YOURSELF MONEY, AND DOWN TIME AND FOLLOW THIS MANUAL.

IF YOU HAVE ANY QUESTIONS OR NEED HELP, CONTACT YOUR DEALER OR CALL SALSCO.

SALSCO, INC.
105 SCHOOL HOUSE ROAD
CHESHIRE, CT 06410
TELEPHONE: 203/271-1682
FAX: (203) 271-2596

DO NOT RUN MACHINE WITHOUT GUARDS IN PLACE

INSTALLATION OF THE TURF HOLD DOWN KIT

1. When installing your Turf Hold Down Kit, you must first look at the Rocker Arm Roller Bearing. Be sure these Bearings are centered on the Crank Lobe. If they are off to one side, you must shim between Rocker Arm (Item 69-Page 12) to center the Roller Bearing on the Crank Lobe.
2. Once this is complete, check to be sure the Tine Holder is hanging straight. Adjust shims between Rubber Tine Guides (Item 174-Page 12). Now you are ready to install your Turf Hold Downs.

NOTE: If the FTA 60-12 has single tines instead of double tines, replace the arm and tines as one unit (Item A022).

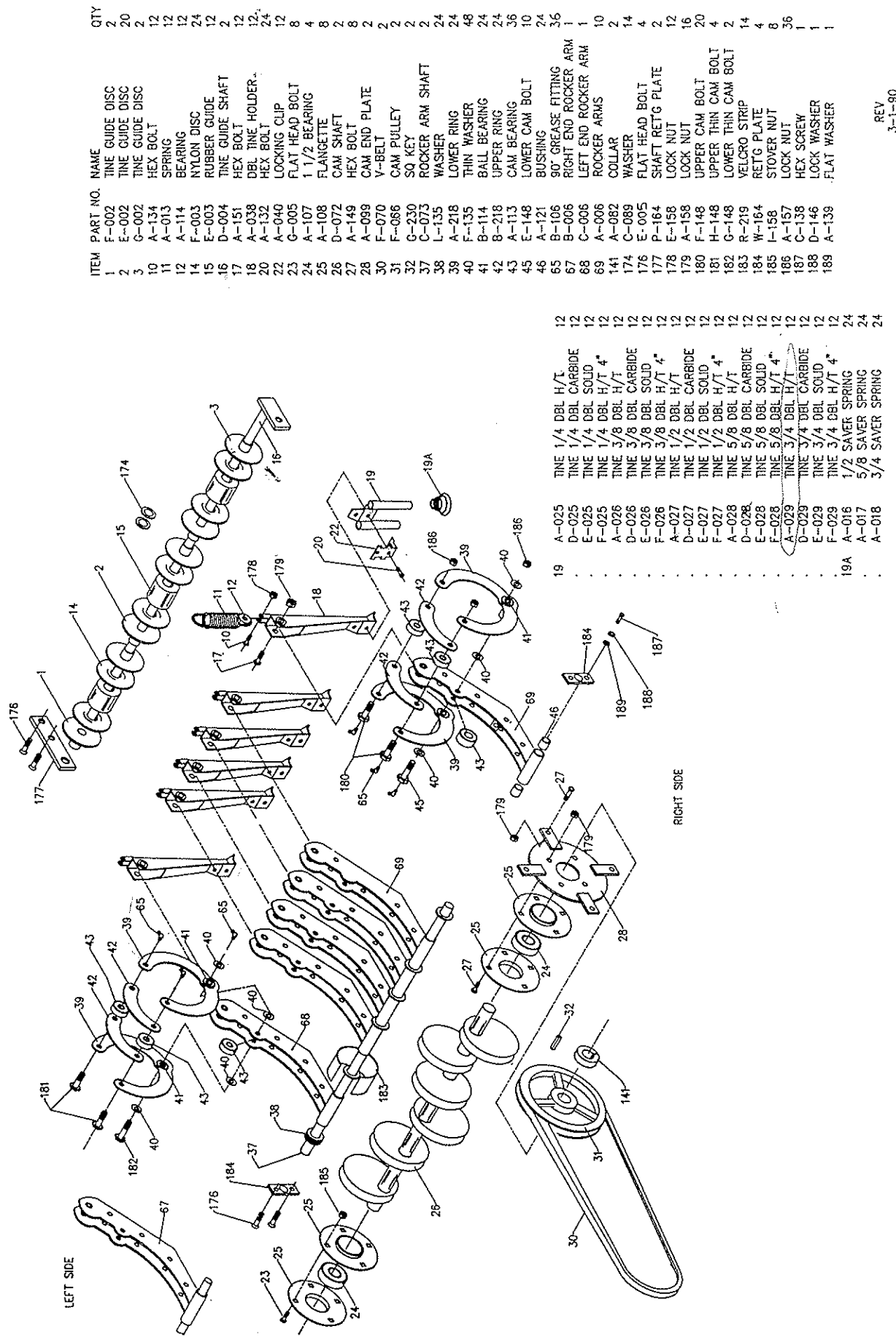
To adjust holder on tine (Item 18-Page 12), tighten bolt (Item 17-Page 12 and back off until holder on tine can be pushed toward rear of machine and when let go it will return forward on its own.

3. With your the Housings in lowered position, (add Item 0-Page 31) to the Lock Pin that is welded to the front of the Housing. This Extention slips over the Lock Pin and stays with the Housing. Raise Housing and pin with safety locks. When Housing is in raised position with the safety lock pinned, turn engine off and remove key.
4. Next, remove the front Caster Wheel. Slip the Turf Hold Down Bracket Pin from bottom up in to Bushings that hold Caster Wheels and Bolt.
5. Notice, two (2) ears welded to the Turf Hold Down bracket. You must drill and Bolt these to the Front Housing. Once this main bracket is secure, then bolt Plate "C" to the topstick of Plate "B" with "G" bolts as shown. You must adjust Plate "C" so rods are between Tines.

If you have any questions or need help, contact your dealer or call Salsco.

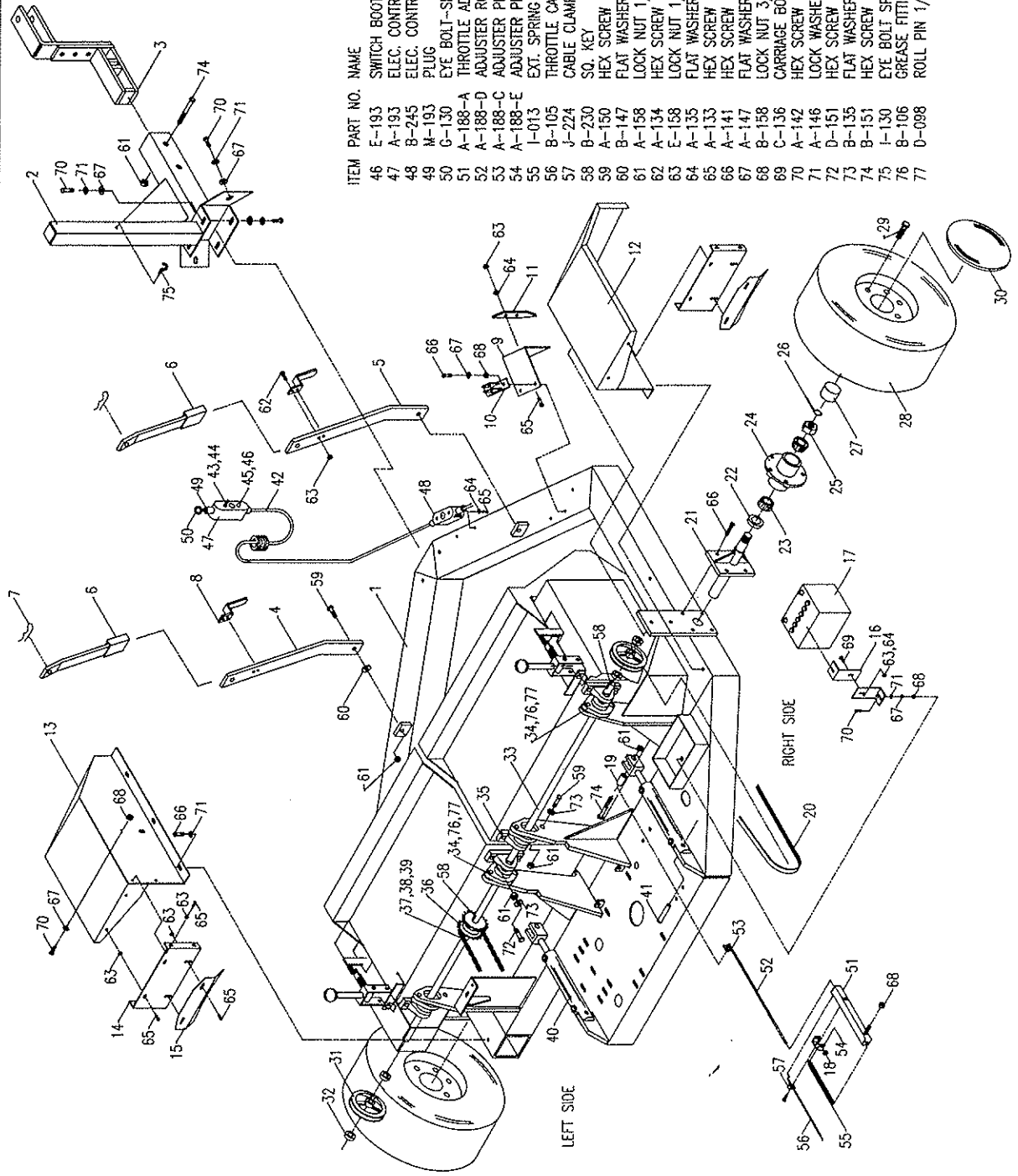
CAUTIONS & HELPFUL HINTS

1. With the Turf Hold Down Kit installed, the FTA 60-24 should be pulled in a straight line.
2. It is possible for the double tine to grab a rock and hold it long enough for it to bend a rod up. When this happens, another tine coming down will most likely bend another rod down, stop and straighten. If you have alot of rocks, ask about single tines.
3. Ideally, you want to run with just the rods touching the Turf. You can accomplish this by not lowering the housing all the way. Just play with the RAISE/LOWER button. Another way is to shorten SPRING "D". Some type of turf will allow you to shorten SPRING "D" and lower housings fully without markings.



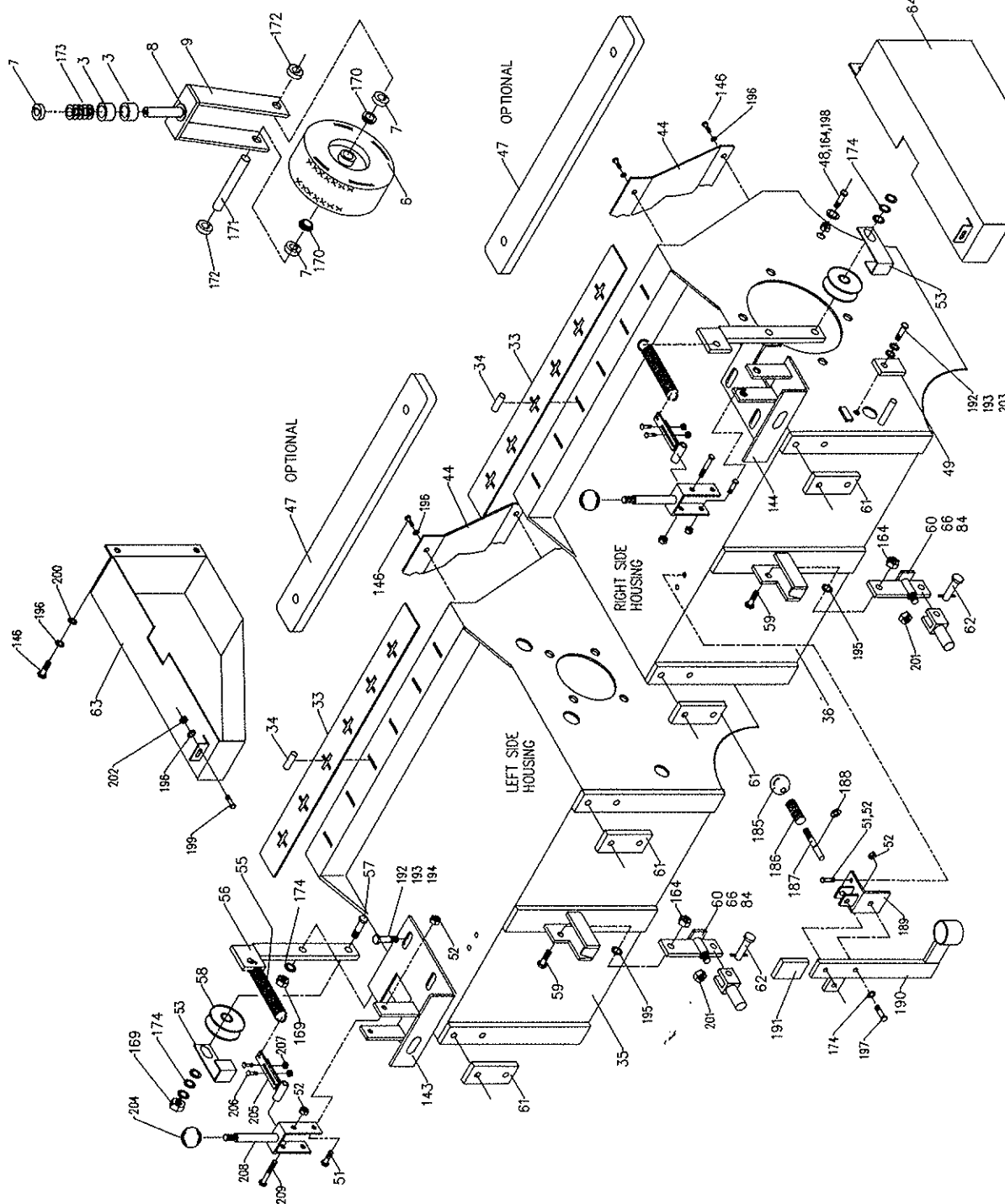
ITEM	PART NO.	NAME	QTY
1	F-002	TINE GUIDE DISC	2
2	E-002	TINE GUIDE DISC	20
3	G-002	TINE GUIDE DISC	2
10	A-134	HEX BOLT	12
11	A-013	SPRING	12
12	A-114	BEARING	12
14	F-003	NYLON DISC	24
15	E-003	RUBBER GUIDE	12
16	D-004	TINE GUIDE SHAFT	2
17	A-151	HEX BOLT	12
18	A-038	DBL TINE HOLDER	12
20	A-132	HEX BOLT	24
22	A-040	LOCKING CLIP	12
23	G-005	FLAT HEAD BOLT	8
24	A-107	1 1/2 BEARING	4
25	A-108	FLANGETTE	8
26	D-072	CAM SHAFT	2
27	A-149	HEX BOLT	8
28	A-089	CAM END PLATE	2
30	F-070	V-BELT	2
31	F-066	CAM PULLEY	2
32	C-230	SO KEY	2
37	C-073	ROCKER ARM SHAFT	2
38	L-135	WASHER	24
39	A-218	LOWER RING	24
40	F-135	THIN WASHER	48
41	B-114	BALL BEARING	24
42	B-218	UPPER RING	24
43	A-113	CAM BEARING	36
45	E-148	LOWER CAM BOLT	10
46	A-121	BUSHING	24
55	B-106	90° GREASE FITTING	36
67	B-006	RIGHT END ROCKER ARM	1
68	C-006	LEFT END ROCKER ARM	1
69	A-006	ROCKER ARMS	10
141	A-082	COLLAR	2
174	C-089	WASHER	14
176	E-005	FLAT HEAD BOLT	4
177	P-164	SHAFT RETG PLATE	2
178	E-158	LOCK NUT	12
179	A-158	LOCK NUT	16
180	F-148	UPPER CAM BOLT	20
181	H-148	UPPER THIN CAM BOLT	4
182	G-148	LOWER THIN CAM BOLT	2
183	R-219	VELCRO STRIP	14
184	W-164	RETG PLATE	4
185	L-158	STOVER NUT	8
186	A-157	LOCK NUT	36
187	C-138	HEX SCREW	1
188	D-146	LOCK WASHER	1
189	A-139	FLAT WASHER	1

12	TINE 1/4 DBL H/T	12
12	TINE 1/4 DBL CARBIDE	12
12	TINE 1/4 DBL SOLID	12
12	TINE 1/4 DBL H/T 4"	12
12	TINE 1/4 DBL H/T	12
12	TINE 3/8 DBL H/T	12
12	TINE 3/8 DBL CARBIDE	12
12	TINE 3/8 DBL SOLID	12
12	TINE 3/8 DBL H/T 4"	12
12	TINE 1/2 DBL H/T	12
12	TINE 1/2 DBL CARBIDE	12
12	TINE 1/2 DBL SOLID	12
12	TINE 1/2 DBL H/T 4"	12
12	TINE 5/8 DBL H/T	12
12	TINE 5/8 DBL CARBIDE	12
12	TINE 5/8 DBL SOLID	12
12	TINE 5/8 DBL H/T 4"	12
12	TINE 3/4 DBL H/T	12
12	TINE 3/4 DBL CARBIDE	12
12	TINE 3/4 DBL SOLID	12
12	TINE 3/4 DBL H/T 4"	12
12	TINE 1/2 SAVER SPRING	24
24	5/8 SAVER SPRING	24
24	3/4 SAVER SPRING	24



ITEM	PART NO.	NAME	QTY
1	A-501	FRAME	1
2	D-501	HITCH & SWITCH BR'KT	1
3	A-194	HITCH	1
4	G-171	FRAME LOCK BR'KT--LEFT	1
5	H-171	FRAME LOCK BR'KT--RIGHT	1
6	K-242	FRAME LOCK EXT. BR'KT	1
7	B-167	PIN	2
8	R-227	HANDLE	2
9	D-215	WIDTH POINTER BR'KT	2
10	B-171	FRAME LOCK	2
11	C-209	WIDTH POINTER GAUGE	2
12	A-172	FENDER--RIGHT	1
13	A-170	FENDER--LEFT	1
14	D-093	SCRAPER BRACKET	2
15	E-093	SCRAPER	2
16	A-191	BATTERY CLAMP	2
17	B-191	BATTERY	2
18	E-081	SET COLLAR	1
19	M-089	THROTTLE SPACER	2
20	F-070	V-BELT	2
21	R-223	SPINDLE ASSEMBLY	2
22	B-185	SEAL	2
23	C-185	BEARING	4
24	A-185	HUB ASSEMBLY	2
25	K-185	SPINDLE NUT	2
26	D-167	PIN	2
27	L-185	CAP	2
28	I-085	WHEEL & RIM-SLICK	2
29	A-173	LUG BOLT	10
30	A-092	HUB CAP	2
31	C-066	DRIVE PULLEY	2
32	A-079	COLLAR	11
33	A-076	DRIVE SHAFT	1
34	A-179	BEARING	4
35	A-178	PILLOW BLOCK BEARING	4
36	B-046	SPROCKET	2
37	G-054	CHAIN	1
38	A-057	HALF LINK	1
39	A-058	MASTER LINK	1
40	A-184	CYLINDER	2
41	A-167	CYLINDER RETAINING PIN	4
42	F-193	FLEX CORD	1
43	B-193	TOGGLE SWITCH	1
44	C-193	TOGGLE BOOT	1
45	D-193	KILL SWITCH	1

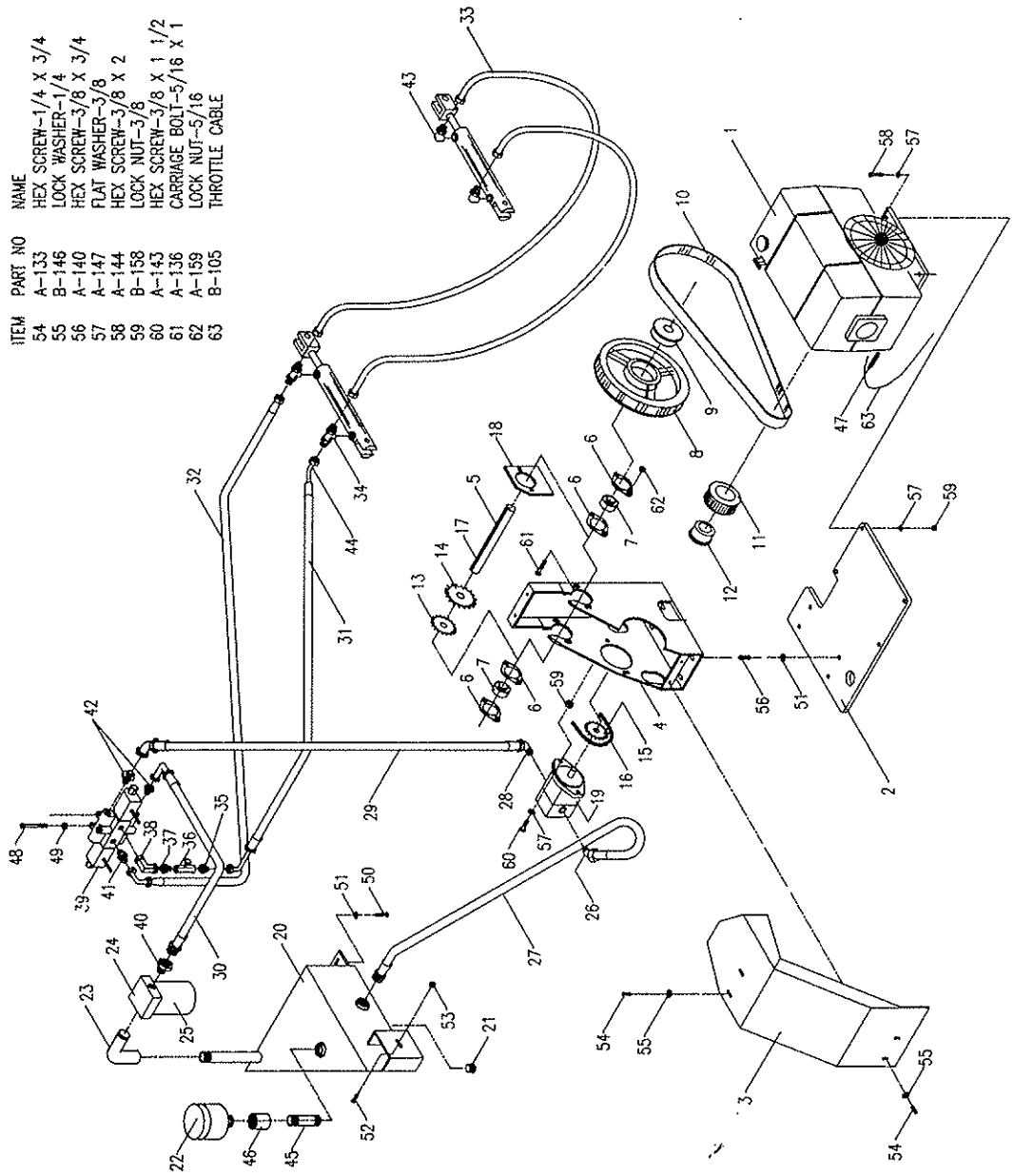
ITEM	PART NO.	NAME	QTY
46	E-193	SWITCH BOOT	1
47	A-193	ELEC. CONTROL BOX	1
48	B-245	ELEC. CONTROL BOX SPEC	1
49	M-193	PLUG	1
50	G-130	EYE BOLT--SPEC.	1
51	A-188-A	THROTTLE ADJUSTER	1
52	A-188-D	ADJUSTER ROD	1
53	A-188-C	ADJUSTER PLATE	1
54	A-188-E	ADJUSTER PLATE	1
55	I-013	EXT. SPRING	1
56	B-105	THROTTLE CABLE	1
57	J-224	CABLE CLAMP	1
58	B-230	SQ. KEY	3
59	A-150	HEX SCREW 1/2 X 2	10
60	B-147	FLAT WASHER 1/2	2
61	A-158	LOCK NUT 1/2	2
62	A-134	HEX SCREW 1/4 X 1	21
63	E-158	LOCK NUT 1/4	4
64	A-135	FLAT WASHER 1/4	21
65	A-133	HEX SCREW 1/4 X 3/4	7
66	A-141	HEX SCREW 3/8 X 1	18
67	A-147	FLAT WASHER 3/8	15
68	B-158	LOCK NUT 3/8	10
69	C-136	CARRIAGE BOLT 1/4 X 3/4	1
70	A-142	HEX SCREW 3/8 X 1 1/4	11
71	A-146	LOCK WASHER 3/8	13
72	D-151	HEX SCREW 1/2 X 2 3/4	8
73	B-135	FLAT WASHER 1/2	16
74	B-151	HEX SCREW 1/2 X 3 1/2	3
75	I-130	EYE BOLT SPEC.	1
76	B-106	GREASE FITTING 90	8
77	D-098	ROLL PIN 1/8 X 1	8

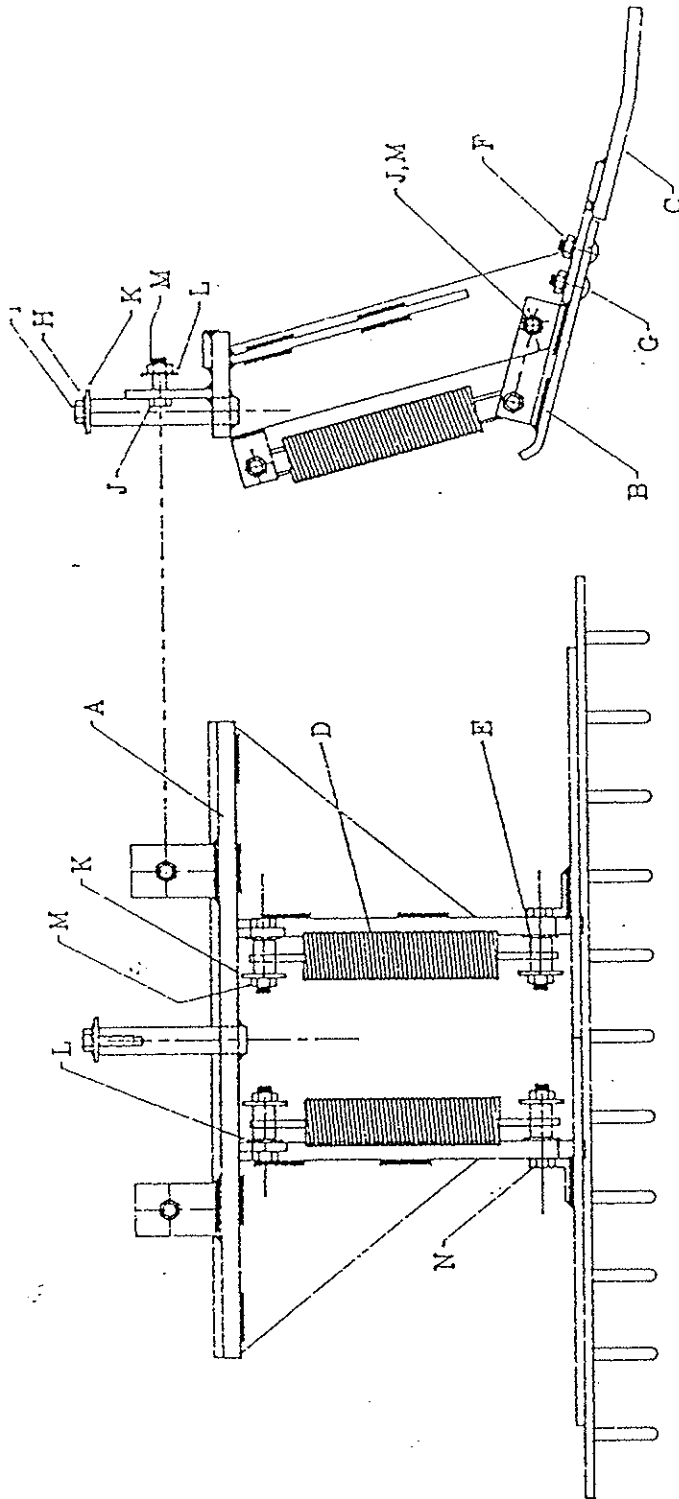


ITEM	PART NO.	NAME	QTY
3	A-120	BUSHING	4
6	A-084	FRONT WHEEL	2
7	A-080	SPLIT COLLAR	6
8	A-115	THRUST WASHER	2
9	D-088	FRONT AXLE	2
33	A-097	PIN HOLDER	2
34	A-098	SPRING PIN	12
35	L-500	LEFT HOUSING	1
36	R-500	RIGHT HOUSING	1
44	A-095	FRONT PANEL	2
47	OPTIONAL	OPTIONAL	1
48	B-149	FLAT HD SCREW 1/2 X 1 1/4	1
49	A-164	RETAINING PLATE	2
50	A-106	GREASE FITTING	2
51	A-141	HEX SCREW 3/8 X 1	8
52	B-158	LOCK NUT 3/8	12
53	M-242	BELT GUIDE BRACKET	2
55	E-015	SPRING	2
56	C-100	CLUTCH PIVOT ARM	2
57	D-145	HEX SCREW 3/8 X 2 1/4	2
58	L-064	IDLER PULLEY	2
59	A-150	HEX SCREW 3/8 X 2	2
60	A-181	CYL. CONNECTING LINK	2
61	A-166	SPACER PLATE	4
62	A-167	RETAINING PIN	2
63	A-168	LEFT GUARD	1
64	A-169	RIGHT GUARD	1
66	C-166	SPACER PLATE	2
84	D-166	SPACER PLATE	2
143	P-096	LEFT CLUTCH BKT	1
144	Q-096	RIGHT CLUTCH BKT	1
146	A-132	HEX SCREW 1/4 X 1/2	16
164	A-158	LOCK NUT 1/2	4
169	H-158	STOVER NUT 3/8	2
170	A-122	WHEEL BUSHING	4
171	E-088	WHEEL AXLE	2
172	A-081	SET COLLAR	4
173	A-089	FLAT WASHER 3/4	20
174	A-147	FLAT WASHER 3/8	10
175			
185	A-104	KNOB	2
186	D-014	SPRING	2
187	L-098	PIN	2
188	D-218	E RING	2
189	Q-242	MTG BRACKET	2
190	Y-208	LEVER	2
191	L-104	GRIP	2
192	C-138	HEX SCREW 5/16 X 1	2
193	D-146	LOCK WASHER 5/16	8
194	A-159	LOCK NUT 5/16	6
195	B-147	FLAT WASHER 1/2	2
196	B-146	LOCK WASHER 1/4	18
197	A-142	HEX SCREW 3/8 X 1 1/4	2
198	B-089	CUT WASHER 3/4	2
199	A-134	HEX SCREW 1/4 X 1	2
200	A-135	FLAT WASHER 1/4	2
201	E-158	LOCK NUT 3/4	2
202	A-136	FLAT WASHER 5/16	2
203	E-104	KNOB	2
204	D-402	CLUTCH T-ROD	2
205	C-136	CARRIAGE BOLT	4
206	E-158	LOCK NUT	4
207	B-004	CONTROL HANDLE	2
208	A-145	HEX BOLT	2

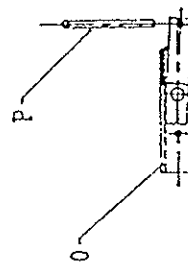
ITEM	PART NO	NAME	QTY
54	A-133	HEX SCREW-1/4 X 3/4	4
55	B-146	LOCK WASHER-1/4	4
56	A-140	HEX SCREW-3/8 X 3/4	4
57	A-147	FLAT WASHER-3/8	10
58	A-144	HEX SCREW-3/8 X 2	4
59	B-158	LOCK NUT-3/8	6
60	A-143	HEX SCREW-3/8 X 1 1/2	2
61	A-136	CARRIAGE BOLT-5/16 X 1	4
62	A-159	LOCK NUT-5/16	4
63	B-105	THROTTLE CABLE	1

ITEM	PART NO	NAME	QTY
1	I-200	KOHLER 16 H.P. MOTOR	1
2	S-089	MOTOR MOUNTING PLATE	1
3	G-094	CHAIN GUARD	1
4	S-086	TIMING BELT BRACKET	1
5	D-074	JACK SHAFT	1
6	B-110	FLANGE	4
7	B-109	BEARING	2
8	D-084	TIMING BELT-60 T	1
9	F-084	HUB	1
10	G-070	TIMING BELT	1
11	C-064	TIMING BELT-20 T	1
12	E-084	HUB	1
13	H-046	SPROCKET	1
14	I-046	SPROCKET	1
15	J-046	SPROCKET	1
16	H-054	DRIVE CHAIN	1
17	G-230	SQ. KEY	2
18	D-243	BEARING PLATE	1
19	A-189	HYDRAULIC PUMP	1
20	A-183	HYDRAULIC TANK	1
21	B-174	DRAIN PLUG	1
22	B-175	FILLER CAP	1
23	A-174	ELBOW	1
24	A-175	FILTER & HOUSING	1
25	A-176	REPLACEMENT FILTER	1
26	C-174	ELBOW	1
27	A-190	HYD. HOSE	1
28	J-195	ELBOW	1
29	A-187	HYD. HOSE	1
30	A-177	HYD. HOSE	1
31	B-177	HYD. HOSE	1
32	E-177	HYD. HOSE	1
33	C-177	HYD. HOSE	2
34	A-198	TEE	2
35	Q-195	STRAIGHT ADAPTER	1
36	C-195	FLOW CONTROL VALVE	1
37	P-195	NIPPLE	1
38	B-195	90° ADAPTER	1
39	A-197	HYDRAULIC VALVE	1
40	C-175	STRAIGHT ADAPTER	1
41	A-195	STRAIGHT ADAPTER	1
42	A-196	STRAIGHT ADAPTER	2
43	D-177	90° ADAPTER	2
44	R-195	45° SWIVEL ADAPTER	1
45	F-196	NIPPLE-3/4 NPT	1
46	G-196	COUPLING-3/4 NPT	1
47	J-013	EXT. SPRING	1
48	E-138	HEX SCREW	2
49	A-159	LOCK NUT	2
50	A-141	HEX SCREW-3/8 X 1	2
51	A-146	LOCK WASHER-3/8	6
52	C-150	HEX SCREW-1/2 X 1 1/2	1
53	A-158	LOCK NUT-1/2	1





ITEM	DESCRIPTION	DRAWING NO	QTY
A	MOUNTING BRACKET	902-Y-096	2
B	SPRING PLATE	902-L-184	2
C	RAKE	902-A-213	2
D	SPRING	A-013	4
E	SPACER	P-089	8
F	LOCK NUT	A-159	10
G	CARRIAGE BOLT	A-136	10
H	FLAT WASHER	A-139	2
I	HEX SCREW	C-138	2
J	HEX SCREW	A-142	4
K	FLAT WASHER	B-147	10
L	FLAT WASHER	A-147	12
M	LOCK NUT	B-158	16
N	HEX SCREW	A-144	8
O	COUPLING EXT. PIN. LOCK	D-050	2
P	HITCH PIN	B-187	2



MODELS FTA 60-24 & 60-12
PARTS LIST

70	502A170	Right Fender	1
71	502B132	Bolts, Fender	6
72	502A171	Frame Locks	2
73	502A501	FTA Frame	1
74	502A149	Nut & Bolt	2
75	502A172	Left Fender	1
76	502D085	Wheels, Rear 18 x 9.50-8 NHS W1. & Tire	2
77	502A173	Lug Nuts	10
78	502A174	Street Elbow	1
79	502A175	Filter & Housing	1
80	502A176	Replacement Filter Onlt	1
81	502A177	Return Hose	1
82	502A079	Collar 1"	2
83	502C066	Pulley, Drive	2
84	502A104	Knob	2
85	502A178	Pillow Block Bearings	4
86	502A179	Flange Bearings	4
87	502B046	Drive Shaft Sprocket	1
88	502A150	Drive Shaft Bearing Mgt. Bolt	8
89	502A079	Collar	5
90	502A076	Shaft, 1" Drive Shaft	1
91	502D151	Nut & Bolt	8
92	502A183	Hydraulic Tank	1
93	502B175	Filler Cap	1
94	502A149	Mount Bolts	3
95	502B174	Drain Plug	1
96	502B177	Hydraulic Hose, Valve to Cylinder	1
97	502A184	Hydraulic Cylinder	2
98	502A144	Adjustment Bolt	2
99	502B105	Throttle Cable Assy.	1
100	502C177	Hydraulic Hoses Between Cylinders	2
101	502B184	Cylinder Retaining Pin	2
102	502A185	Wheel Hub Assy.	2
103	502J046	Pump Sprocket	1
104	502G054	Drive Chain	1
	502A057	Chain, Half Link	3
	502A058	Chain, Master Link	3
105	502M098	Spacer	1
106	502A187	Hydraulic Pressure Hose	1
107	502A143	Bolt, Pump Mounting	2
108	502A188	Throttle Adjuster Assy.	1
109	502A189	Hydraulic Pump	1
110	502C174	Street Elbow	1
111	502A190	Hydraulic Inlet Hose	1
112	502B138	Bolt, Engine Mounting	1
113	502I200	16 HP Kohler Magnum Engine	1
114			
115	502A191	Battery Hold Down	1

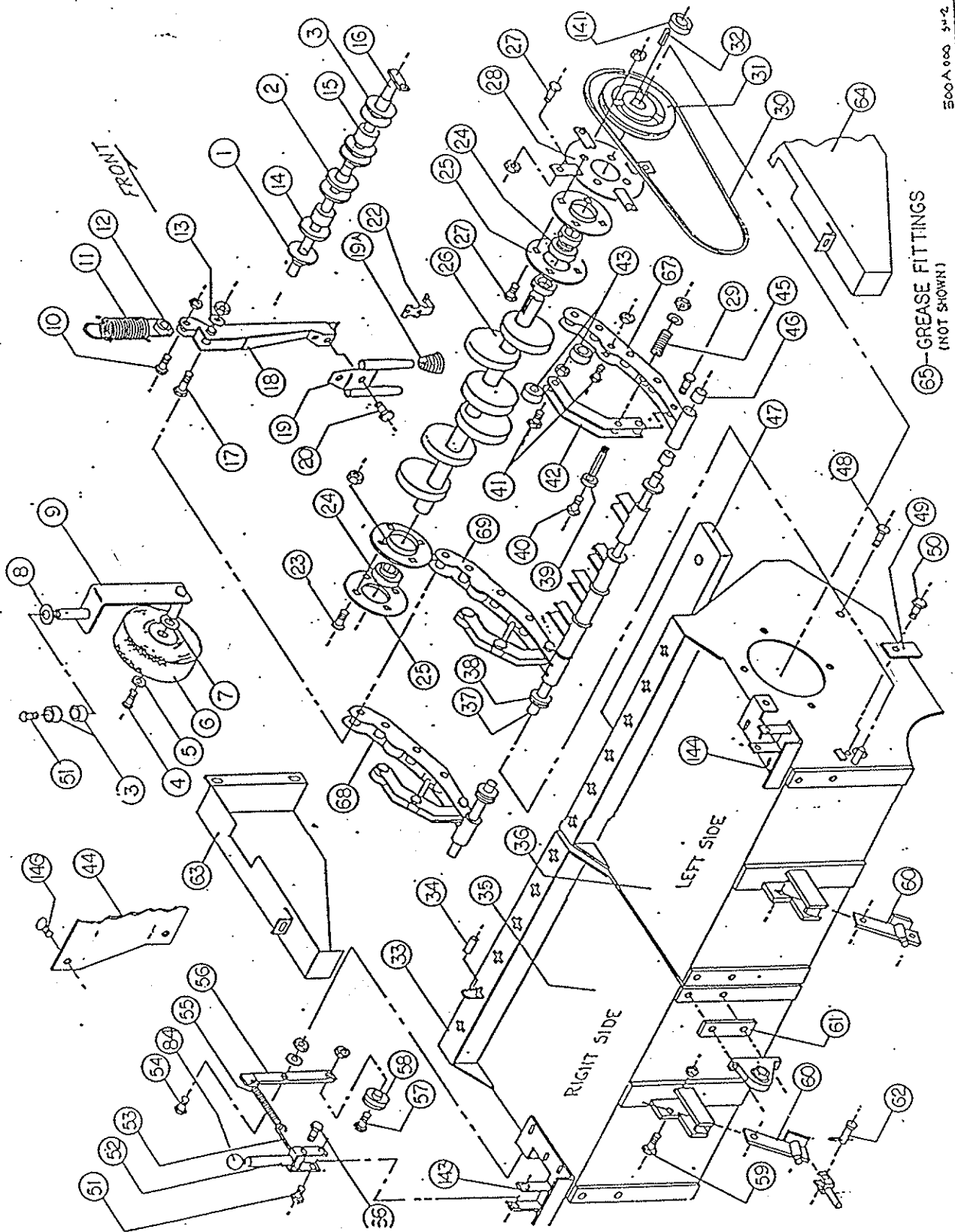
MODELS FTA 60-24 & 60-12
PARTS LIST (Continued)

116	502B191	Battery Hold Down	1
117	502S177	Elbow, Cylinder	2
118	502B185	Wheel Seals	2
119	502C185	Wheel Bearings	4
120	502A192	Hub Cap	2
121	502A193	Electric Control Box	2
122	502B193	Toggle Switch	1
123	502C193	Toggle Boot	1
124	502D193	Kill Switch	1
125	502E193	Kill Switch Boot	1
126	502F193	Flex Cord	1
127	502A194	Hitch	1
128	502C175	Adaptor Fitting, Filter Housing	1
129	502A195	Elbow, 90 Degree Cntr. Vlv. Press. Up	2
130	502B195	Elbow, 90 Degree Pressure Down	1
131	502A196	Elbow, 45 Degree Cntr. Vlv. Press. In	1
132	502A197	Hydraulic Valve	1
134	502A198	"T", Hydraulic Cylinder	2
135	502A134	Bolt	2
136	502G094	Guard, Chain	1
137	502S096	Bracket	1
139	502B171	Lock Brackets	2
140	502C195	Flow Control Valve	1
141	502A082	Collar 1 1/8	2
142	502D174	Jack Shaft	1
143	502P076	Clutch Bracket, Right	1
144	502Q096	Clutch Bracket, Left	1
145	502I046	Drive Sprocket	1
146	502A130	Finger Bolt	12
147	502B177	Hose	1
148	502J195	Elbow 90 Degree	1
149	502R195	45 Degree Elbow	1
150	502P195	Nipple	1
151	502Q195	Adapter	1
152	502B167	Hitch Pin	2
153	502B151	Bolt	1
154	502H046	Sprocket	1
155	502C064	Timing Belt Pulley 20T	1
156	502E064	Hub	1
157	502D064	Timing Belt Pulley 60T	
158	502F064	Hub	1
159	502G070	Timing Belt	1
160	502B109	Bearing	2
161	502B110	Flangette	4

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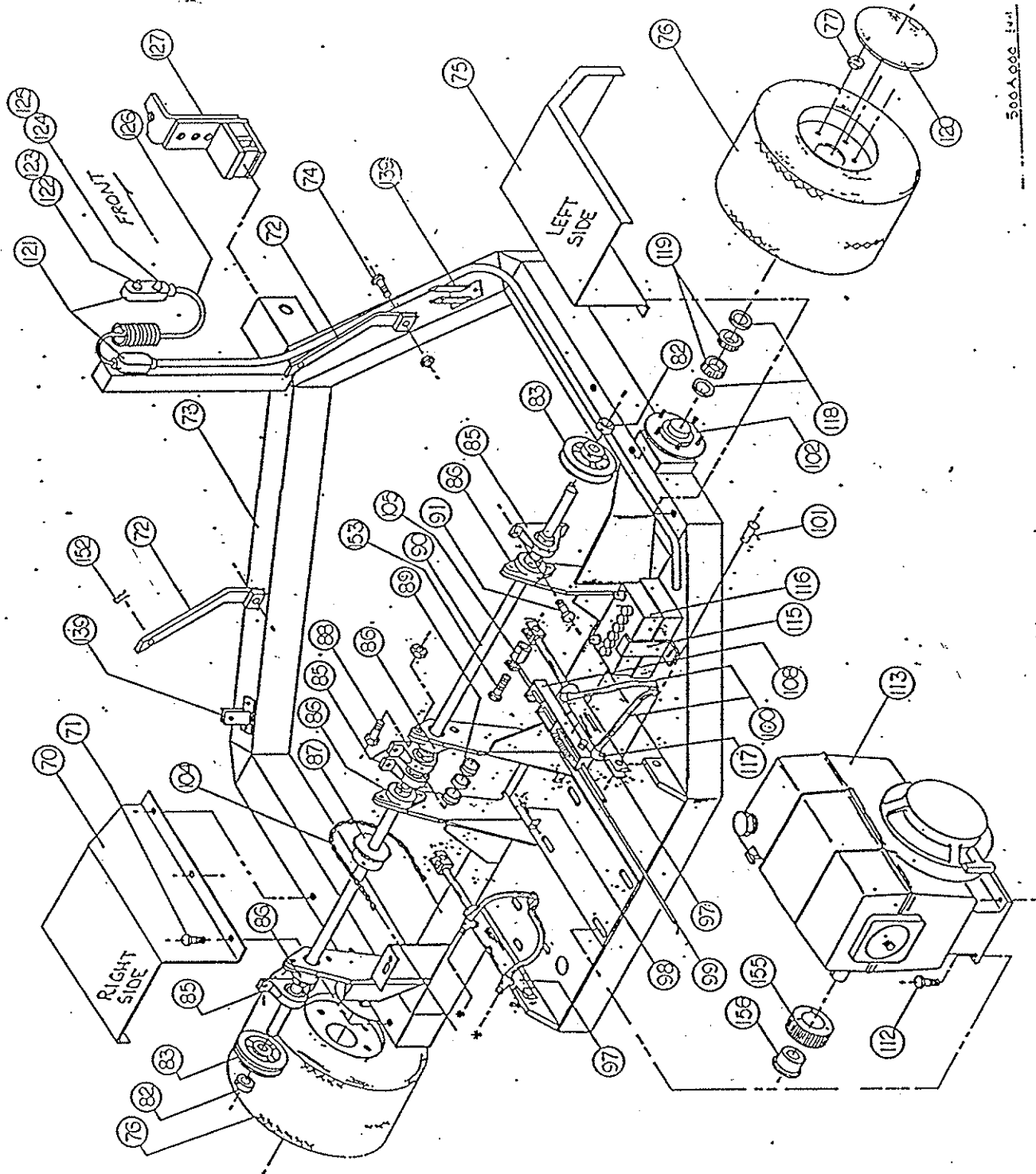
MODELS FTA 60-24 & 60-12
PARTS LIST (Continued)

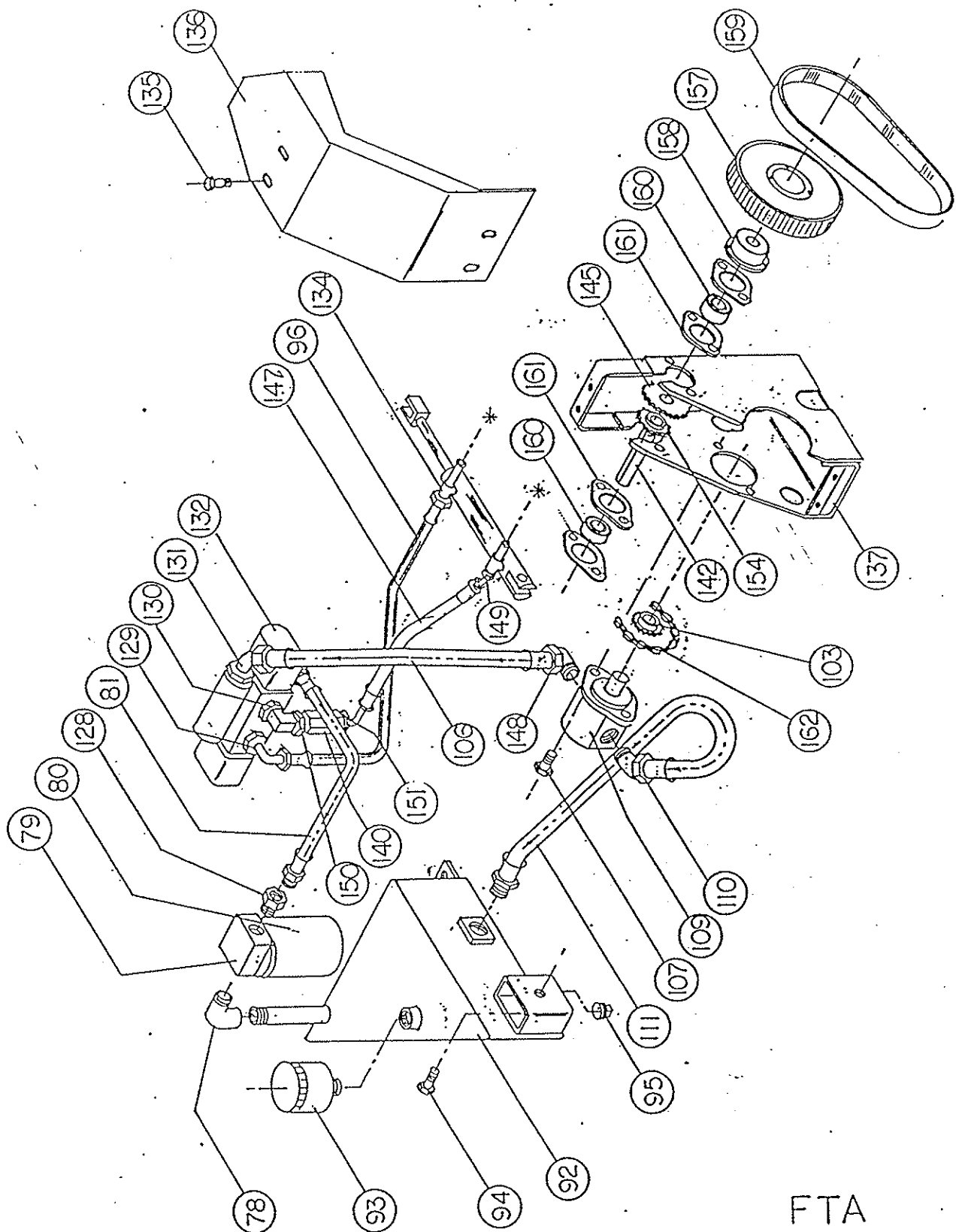
162	502H054	Chain	1
	502A157	7/16" Jam Nut	
	502A158	1/2" Lock Nut	
	502A159	5/16" Lock Nut	
	502A161	1/4" Bolt	
	502A162	5/16" Hexnut	
	502A163	3/8" Hexnut	
183	502D501	Hitch & Switch Bracket	1
184	502D215	Pointer Bracket	2
185	502C209	Width Pointer	2
186	502D093	Scraper Bracket	2
187	502E093	Scraper	2



500A 000 3-1/2

500A000 Rev. 1





FTA
502

MODELS FTA 60-24 & FTA 60-12
PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	502F002	Tine Guide Disc	2
2	502E002	Tine Guide Disc	20
3	502G002	Tine Guide Disc	2
4	502A140	Bolt, Axle & Wheel	2
5	502A146	Washer, Locking 2-Wheels	2
6	502A084	Wheels, Front 2.80 x 4 Wheel & Tires	2
7	502A147	Washer, Flat 2-Wheels	2
8	502A122	Thrust Washer, Front Wheel	2
9	502D088	Axle, Front Wheel	2
10	502A134	Bolt	12
11	502A013	Spring, Tine	12
12	502A114	Bearing, Tine	12
13	502B135	Washer	12
14	502F003	Nylon Disc	24
15	502E003	Rubber Tine Guides	12
16	502D004	Tine Guide Shaft	2
17	502D151	Bolt, Tine to Rocker	12
18	502A038	Tine Arm Double Holder	12
18A	502A022	Tines, 3/4" Single H/T	12
19	502A025	Tines, 1/4" Double H/T	12
	502D025	Tines, 1/4" Double H/T Carbide	12
	502E025	Tines, 1/4" Double Solid	12
	502F025	Tines, 1/4" Double H/T 4"	12
	502A026	Tines, 3/8" Double H/T	12
	502D026	Tines, 3/8" Double H/T Carbide	12
	502E026	Tines, 3/8" Double Solid	12
	502F026	Tines, 3/8" Double H/T 4"	12
	502A027	Tines, 1/2" Double H/T	12
	502D027	Tines, 1/2" Double H/T Carbide	12
	502E027	Tines, 1/2" Double Solid	12
	502F027	Tines, 1/2" Double H/T 4"	12
	502A028	Tines, 5/8" Double H/T	12
	502D028	Tines, 5/8" Double H/T Carbide	12
	502E028	Tines, 5/8" Double Solid	12
	502F028	Tines, 5/8" Double H/T 4"	12
	502A029	Tines, 3/4" Double H/T	12
	502D029	Tines, 3/4" Double H/T Carbide	12
	502E029	Tines, 3/4" Double Solid	12
	502F029	Tines, 3/4" Double H/T 4"	12
19A	502A016	Spring, 1/2" Turf Saver	24
	502A017	Spring, 5/8" Turf Saver	24
	502A018	Spring, 3/4" Turf Saver	24
20	502A132	Bolt, Double Tine Mounting	24
22	502A040	Locking Clip, Double Tine	12
23	502B149	Bolt, Cam Shaft Flangette Flathead	8
24	502A107	Bearing, 1 1/2" Cam	4
25	502A108	Flangette Cam Bearing	8
26	502D072	Cam Shaft	2
27	502A149	Bolt, Camshaft End Plate	8
28	502A099	End Plate Cam	2
29	502A144	Bolt	12
30	502F070	V-Belts, Pair Sold As Set	1

MODELS FTA 60-24 & 60-12
PARTS LIST (Continued)

31	502F066	Pulley, Cam	2
32	502C007	1/4" Square Key	2
33	502B097	Holder, Spring Pin	2
34	502A098	Pin 1/2 x 2 3/4, Spring	12
35	502R500	Right Aerator Housing	1
36	502L500	Left Aerator Housing	1
37	502C073	Shaft, 1" Rocker Arm	2
38	502C089	Washers, Rocker Arm	24
39	502A009	Rocker Arm Adjuster w/Nut	12
40	502B142	Bolt & Nut, Upper Rocker Arm Adj. Pin	12
41	502B148	Bolt, Rocker Arm Drilled	24
42	502A008	Rocker Arm Upper Half	12
43	502A113	Bearing, Rocker Arm	24
44	502A095	Front Panel	2
45	502A014	Spring, Upper Rocker Arm Tension	12
46	502A121	Bushing, Rocker Arm	24
47	502A160	Weight, Front End	2
48	502B149	Guideshaft Nut & Bolt	2
49	502A164	Pivot Shaft Returning Plate	2
50	502A149	Nut & Bolt	2
51	502A141	Bolt, Front Axle	4
52	502B004	Handle, Clutch	2
53	502D102	"T" Rod, Clutch	2
54	502A142	Pivot Nut & Bolt	2
55	502A015	Spring, Clutch	2
56	502C100	Arm, Clutch Pivot	2
57	502A144	Nut & Bolt	2
58	502A064	Pulley, Idler	2
59	502A150	Bolt, Retractor Pivot, Wgt. Mtg.w/Nut	2
60	502A181	Cylinder Connecting Link	2
61	502A166	Spacer Plate	4
62	502A167	Cylinder Retaining Pin	2
63	502A168	Right Guard	1
64	502A169	Left Guard	1
65	502B106	Grease Fitting 90 Degrees	26
66	502A145	Bolt, Handle, Ctr., Idler Pulley w/Nut	2
67	502A006	Rocker Arm	10
68	502B006	Rocker Arm, Right End	1
69	502C006	Rocker Arm, Left End	1
70	502A170	Right Fender	1
71	502B132	Bolts, Fender	6
72	502A171	Frame Locks	2
73	502A501	FTA Frame	1
74	502A149	Nut & Bolt	2
75	502A172	Left Fender	1
76	502D085	Wheels, Rear 18 x 9.50-8 NHS W1. & Tire	2
77	502A173	Lug Nuts	10
78	502A174	Street Elbow	1
79	502A175	Filter & Housing	1
80	502A176	Replacement Filter Only	1
81	502A177	Return Hose	1
82	502A079	Collar 1"	2
83	502C066	Pulley, Drive	2

MODELS FTA 40-24 & 60-12
PARTS LIST (Continued)

84	502A104	Knob	2
85	502A178	Pillow Block Bearings	4
86	502A179	Flange Bearings	4
87	502B046	Drive Shaft Sprocket	1
88	502A150	Drive Shaft Bearing Mgt. Bolt	6
89	502A079	Collar	5
90	502A076	Shaft, 1" Drive Shaft	1
91	502D151	Nut & Bolt	8
92	502A183	Hydraulic Tank	1
93	502B175	Filler Cap	1
94	502A149	Mount Bolts	3
95	502B174	Drain Plug	1
96	502B177	Hydraulic Hose, Valve to Cylinder	1
97	502A184	Hydraulic Cylinder	2
98	502A144	Adjustment Bolt	2
99	502B105	Throttle Cable Assy.	1
100	502C177	Hydraulic Hoses Between Cylinders	2
101	502B184	Cylinder Retaining Pin	2
102	502A185	Wheel Hub Assy.	2
103	502J046	Pump Sprocket	1
104	502G054	Drive Chain	1
	502A057	Chain, Half Link	3
	502A058	Chain, Master Link	3
105	502M098	Spacer	1
106	502A187	Hydraulic Pressure Hose	1
107	502A143	Bolt, Pump Mounting	2
108	502A188	Throttle Adjuster Assy.	1
109	502A189	Hydraulic Pump	1
110	502C174	Street Elbow	1
111	502A190	Hydraulic Inlet Hose	1
112	502B138	Bolt, Engine Mounting	1
113	502I200	16 HP Kohler Magnum Engine	1
114			
115	502A191	Battery Hold Down	1
116	502B191	Battery, 12 Volts	1
117	502D177	Elbow, Cylinder	2
118	502B185	Wheel Seals	2
119	502C185	Wheel Bearings	4
120	502A192	Hub Cap	2
121	502A193	Electric Control Box	2
122	502B193	Toggle Switch	1
123	502C193	Toggle Boot	1
124	502D193	Kill Switch	1
125	502E193	Kill Switch Boot	1
126	502F193	Flex Cord	1
127	502A194	Hitch	1
128	502C175	Adaptor Fitting, Filter Housing	1
129	502A195	Elbow, 90 Degrees Cntr. Vlv. Press. Up	2
130	502B195	Elbow, 90 Degrees Pressure Down	1
131	502A196	Elbow, 45 Degrees Cntr. Vlv. Press. In	1
132	502A197	Hydraulic Valve	1
134	502A198	"T", Hydraulic Cylinder	2
135	502A134	Bolt	2

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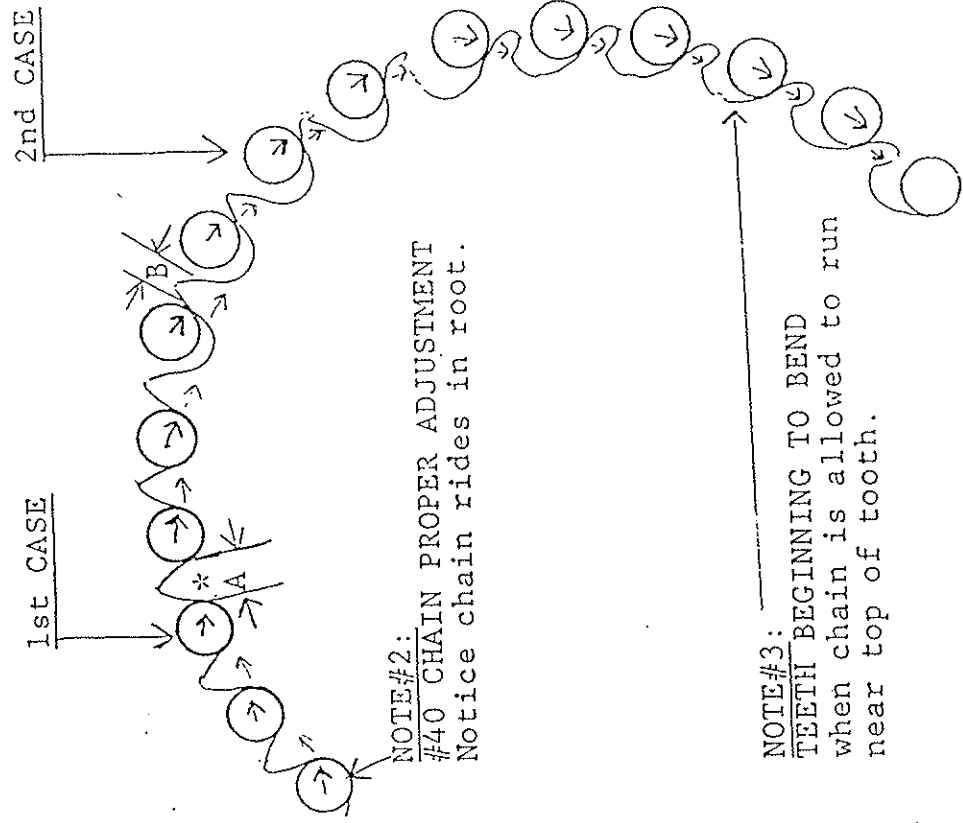
MODELS FTA 60-24 & 60-12
PARTS LIST (Continued)

136	502B094	Guard, Chain	1
137	502S096	Bracket	1
139	502B171	Lock Brackets	2
140	502C195	Flow Control Valve	1
141	502A082	Collar 1 1/8	2
142	502D174	Jack Shaft	1
143	502P076	Clutch Bracket, Right	1
144	502P096	Clutch Bracket, Left	1
145	502I046	Drive Sprocket	1
146	502A130	Finger Bolt	12
147	502B177	Hose	1
148	502J195	Elbow 90 Degree	1
149	502R195	45 Degree Elbow	1
150	502P195	Nipple	1
151	502Q195	Adapter	1
152	502B167	Hitch Pin	2
153	502B151	Bolt	1
154	502H046	Sprocket	1
155	502C064	Timing Belt Pulley 20T	1
156	502E064	Hub	1
157	502D064	Timing Belt Pulley 60T	1
158	502F064	Hub	1
159	502B070	Timing Belt	1
160	502B109	Bearing	2
161	502B110	Flangette	4
162	502H054	Chain	1
	502A157	7/16 Jam Nut	
	502A158	1/2" Lock Nut	
	502A159	5/16" Lock Nut	
	502A161	1/4" Bolt	
	502A162	5/16" Hexnut	
	502A163	3/8" Hexnut	

NOTE#1:
 "A" Dimension is greater than "B" dimension.
 Also, in 1st Case, roller rides in root and has less leverage on tooth than in 2nd Case.

1st CASE:
 Rollers from a properly adjusted chain running in the root of the sprocket.
 Notice force being applied to the "A" dimension of the tooth.

2nd CASE:
 Poorly adjusted chain. Rollers applying force to the top of the tooth "B" dimension.



INSTALLATION OF THE TURF HOLD DOWN KIT

1. When installing your Turf Hold Down Kit, you must first look at the Rocker Arm Roller Bearing. Be sure these Bearings are centered on the Crank Lobe. If they are off to one side, you must shim between Rocker Arm (Item 69-Page 12) to center the Roller Bearing on the Crank Lobe.
2. Once this is complete, check to be sure the Tine Holder is hanging straight. Adjust shims between Rubber Tine Guides (Item 174-Page 12). Now you are ready to install your Turf Hold Downs.

NOTE: If the FTA 60-12 has single tines instead of double tines, replace the arm and tines as one unit (Item A022).

To adjust holder on tine (Item 18-Page 12), tighten bolt (Item 17-Page 12 and back off until holder on tine can be pushed toward rear of machine and when let go it will return forward on its own.

3. With your the Housings in lowered position, (add Item 0-Page 31) to the Lock Pin that is welded to the front of the Housing. This Extention slips over the Lock Pin and stays with the Housing. Raise Housing and pin with safety locks. When Housing is in raised position with the safety lock pinned, turn engine off and remove Key.
4. Next, remove the front Caster Wheel. Slip the Turf Hold Down Bracket Pin from bottom up in to Bushings that hold Caster Wheels and Bolt.
5. Notice, two (2) ears welded to the Turf Hold Down bracket. You must drill and Bolt these to the Front Housing. Once this main bracket is secure, then bolt Plate "C" to the topstick of Plate "B" with "G" bolts as shown. You must adjust Plate "C" so rods are between Tines.

If you have any questions or need help, contact your dealer or call Salsco.

CAUTIONS & HELPFUL HINTS

1. With the Turf Hold Down Kit installed, the FTA 60-24 should be pulled in a straight line.
2. It is possible for the double tine to grab a rock and hold it long enough for it to bend a rod up. When this happens, another tine coming down will most likely bend another rod down, stop and straighten. If you have alot of rocks, ask about single tines.
3. Ideally, you want to run with just the rods touching the Turf. You can accomplish this by not lowering the housing all the way. Just play with the RAISE/LOWER button. Another way is to shorten SPRING "D". Some type of turf will allow you to shorten SPRING "D" and lower housings fully without markings.

WARRANTY

Your Salsco Commercial or Turf Equipment product is a commercial type product and is normally manufactured and sold for commercial or industrial use. Salsco will, for the original purchaser, for one (1) year from the date of purchase (90 days if used for rental purposes; RENTAL IN THIS CASE MEANS MACHINE DOING PROPERTIES NOT OWNED BY ORIGINAL PURCHASER) repair or replace, free of charge, any part or parts found to be defective in material or workmanship or both. Any transportation charges to be borne by the purchaser.

If, during the Warranty Period, the product does not function properly due to defect, simply contact your Salsco Dealer and provide the unit or part for inspection or contact directly:

SALSCO, INC.
Service Department
105 School House Road
Cheshire, CT 06410

203/271-1682
FAX: 203/271-2596

This warranty does not include incidental or consequential damages and is exclusive of any implied warranties.

This warranty does not include normal maintenance parts, including, but not limited to spark plugs, filters, lubricants, springs, tines, tine overlays, nylon bars, and blades.

This warranty does not include parts or components which are covered under the original manufacturers warranty, including, but not limited to engine and differential.

SERVICE RECORD

THIS SCHEDULE IF KEPT PROPERLY WILL HELP TRACK PROBLEMS IN THE FUTURE

[illegible]