

HYDRO OVERSEEDER

MODELS:

HTS-20H

Hydro Overseeder Honda GX270



S/N 1140007704 - 1185001564

Original Language Instructions

MAN 4170646

SCHILLER GROUNDS CARE

OPERATOR'S MANUAL 4170647

CALIFORNIA Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

A WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

CALIFORNIA Proposition 65 Warning

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

WASH HANDS AFTER HANDLING.

IMPORTANT MESSAGE

Thank you for purchasing this Classen product. You have purchased a world class product, one of the best designed and built anywhere.

This machine comes with an Operation and Safety Manual, Parts and Service Manual, and Engine Manual. The useful life and good service you receive from this machine depends to a large extent on how well you read and understand these manuals. Treat your machine properly, lubricate and adjust it as instructed, and it will give you many years of reliable service.

Your safe use of this Classen product is one of our prime design objectives. Many safety features are built in, but we also rely on your good sense and care to achieve accident-free operation. For best protection, study the manuals thoroughly. Learn the proper operation of all controls. Observe all safety precautions. Follow all instructions and warnings completely. Do not remove or defeat any safety features. Make sure those who operate this machine are as well informed and careful in its use as you are.

See a Classen dealer for any service or parts needed. Classen service ensures that you continue to receive the best results possible from Classen products. You can trust Classen replacement parts because they are manufactured with the same high precision and quality as the original parts.

Classen designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this machine only as directed in the manuals, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

Classen Schiller Grounds Care, Inc. 1028 Street Road Southampton, PA 18966-4217

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Operator's Manual 4170647



This Operator / Parts Manual is part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.

02-2016 **1**

NOTICE !!!

Unauthorized modifications may present extreme safety hazards to operators and bystanders and could also result in product damage.

Schiller Grounds Care, Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care, Inc.'s Engineering Department. Any Schiller Grounds Care, Inc. product that is altered, modified or changed in any manner not specifically authorized after original manufacture-including the addition of "after-market" accessories or component parts not specifically approved by Schiller Grounds Care, Inc.-will result in the Schiller Grounds Care, Inc. Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Schiller Grounds Care. Inc. will be considered the responsibility of the individual(s) or company designing and/or making such changes. Schiller Grounds Care, Inc. will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.



This symbol means:

ATTENTION! **BECOME ALERT!**

Your safety and the safety of others is involved.

Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Schiller Grounds Care, Inc. machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

A DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

▲ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

ACAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, MAY result in property damage.

Schiller Grounds Care, Inc.

1028 Street Road
Southampton, PA 18966 U.S.A
Phone: 215-357-5110
Fax: 215-357-8045

MODEL NUMBER

MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

SERIAL NUMBER: This number appears only on your unit. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

HTS-20

MAINTENANCE SAFETY

In general

- Read and understand the manual before maintenance on machine.
- Maintain machine according to manufacturer's schedule and instructions for maximum safety and best results.
- Park machine on level ground.
- Never allow untrained personnel to service machine.
- Guards should only be removed by a qualified technician for maintenance or service. Replace when work is complete.
- Adjust or repair only after the engine has been stopped and the tines have quit rotating.
- Replace parts if worn, damaged or faulty.
 For best results, always replace with parts recommended by the manufacturer.
- Disconnect spark plug wire(s) before making any repairs.
- Do not dismantle the machine without releasing or restraining forces which may cause parts to move suddenly.
- Provide adequate support, e.g. jackstands for lifted machine or parts if working beneath.
- Do not put hands or feet near or under rotating parts.
- Clean up spilled oil or fuel thoroughly.
- Replace faulty mufflers.
- To reduce fire hazards, keep the engine, muffler, and fuel storage area free of grass, leaves, debris buildup or grease.

BLADES



- Blades are sharp and can cut. Use extra caution when handling. Wear appropriate personal protective equipment.
- Only replace blades. Never straighten or weld them.
- Keep other persons away from blades.

Fuel



- Petrol (gasoline) and diesel fuels are flammable; petrol (gasoline) vapors are explosive. Use extra care when handling.
- Store only in containers specifically designed for fuel.
- When refueling or checking fuel level:
 - Stop the engine and allow to cool;
 - Do not smoke;
 - Refuel outdoors only;
 - Use a funnel;
 - Do not overfill;
 - If fuel is spilled, do not attempt to start the engine until the spill is cleaned up and vapors have cleared.
 - Replace caps on fuel containers and tanks securely.

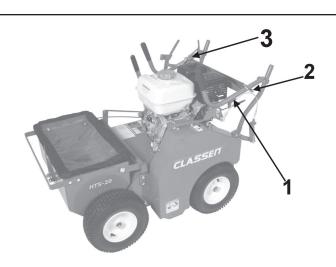
Sparks from static electricity can start fires or cause explosions. Flowing fuel can generate static electricity. To prevent static electricity sparks:

- Keep fuel containers electrically grouded.
- Do not fill containers in a vehicle or on a truck or trailer bed with a plastic liner. Fill containers on the ground away from the vehicle.
- When practical, remove gas powered equipment from the truck or trailer and refuel it on the ground. If equipment must be refueled on the truck or trailer, refuel from a portable container rather than a dispenser nozzle.
- Keep the dispenser nozzle in contact with the rim of the fuel tank or container opening until fueling is complete. Do not use a nozzle lockopen device.

SET-UP INSTRUCTIONS

NOTE: Units ship with no gas or oil.

- 1. Cut banding and roll seeder off pallet.
- 2. Unfold by pulling up on handle 1. Slide lock rings 2 down to lock handle in upright position. Slide linkage coupler to the locked position.
- Add oil to the engine crankcase with the engine resting in a level position. Refer to the engine manufacturer's Operator's manual for the correct type and amount of oil.
- 4. Fill the fuel tank according to the engine manufacturer specifications.



MAINTENANCE



WARNING

Stop the engine and remove spark plug wire before performing any maintenance.

When replacement parts are required, use genuine Classen parts or parts with equivalent characteristics, including type, strength and material. Failure to do so may result in product malfunction and possible injury to the operator and/or bystanders.

Carbon monoxide present in the exhaust is an odorless and deadly gas. Never start or run the engine where exhaust fumes can collect. Provide enough fresh air to keep fumes from getting too strong. Replace any warning decals that become illegible immediately.

DAILY MAINTENANCE

Hardware

- Tighten any hardware (nuts, bolts, etc) that are found loose.
- Replace any broken or missing hardware (nuts, bolts, cotter pins, etc.).
- Check to see that set screws on pulley are tight.

Engine

See engine manual for oil change intervals and oil and gas specifications. See engine manual for air cleaner service intervals and servicing procedure.

Oil

See engine manual for air cleaner service intervals and servicing procedure.

Seeder

Service:

Stop engine and remove spark plug wire before servicing seeder.

Blades

- Check condition of guards for damage or wear.
- Replace broken, worn, or damaged tines. Do not weld or try to straighten tines.

Guards

- Check condition of guards for damage or wear.
- Replace broken, worn, or damaged shield plates.

Belts

- · Check condition of belts for damage or wear.
- · Replace broken, worn, or damaged belts.

Belt Replacement

 Stop the engine and disconnect the spark plug wire before attempting to replace any belt.

STORAGE INSTRUCTIONS

A WARNING

To prevent possible explosion or ignition of vaporized fuel, do not store equipment with fuel in tank or carburetor in enclosure with open flame (for example, a furnace or water heater pilot light).

Daily Storage

- 1. Check engine oil level and air filter element daily.
- 2. Check oil level in gear case.
- 3. Close fuel valve at bottom of fuel tank.
- 4. Clean cutting blade (grass, dirt, etc.).

EXTENDED STORAGE

Before the equipment is put into storage for any period exceeding 30 days:

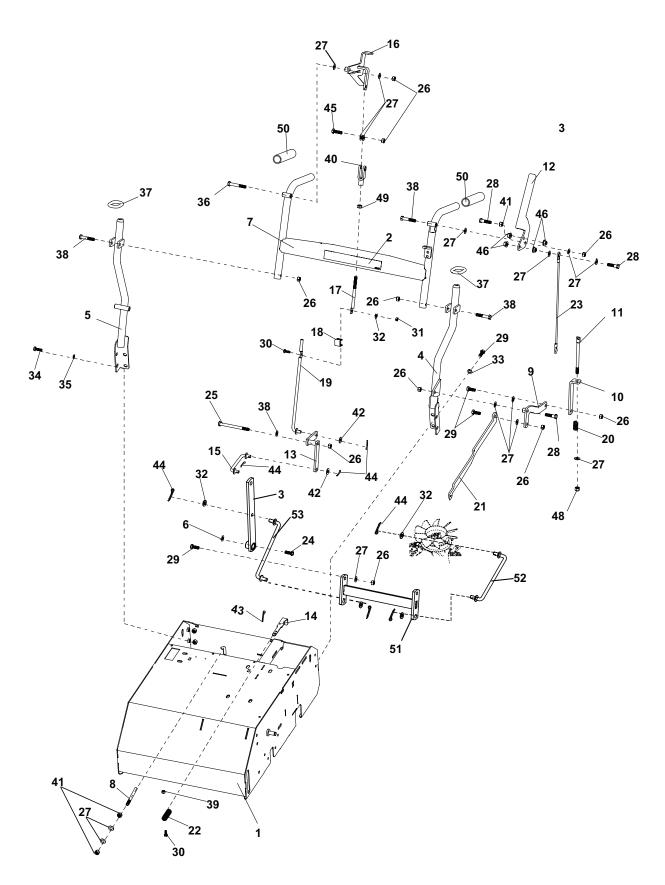
- 1. Drain all fuel from fuel tank and lines (use a hose or fuel line, routed from fuel tank shut-off to proper container).
- 2. Start engine and run until all fuel is used from the carburetor float bowl.
- 3. While engine is warm, drain the crankcase oil and refill with the proper weight of oil corresponding to the season when the equipment will next be used.
- 4. Remove the spark plug and squirt a small quantity of engine oil into the cylinder. Turn the engine over a few times to distribute the oil.
- 5. Lubricate all lubrication fittings.
- 6. Clean and oil cutting blade to prevent rust.

To put equipment into operation after an extended storage:

- 1. Fill fuel tank with clean fresh fuel.
- 2. Check crankcase oil level, and start engine.
- 3. Check fuel system for fuel leaks.
- 4. Check for loose parts and tighten.
- 5. Check for cracked or broken blades and replace.

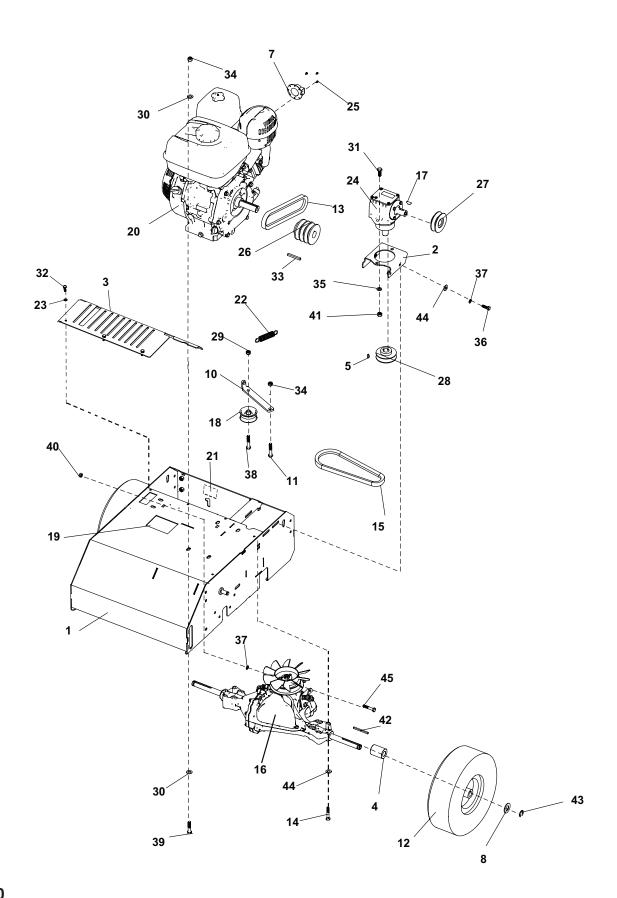
HTS-20	
Dimensions:	
Width	31" (787 mm)
Length	
Length (handle folded)	
Height (transport)	
Height (handle folded)	
Maximum gate Width	
Waximam gato viidimminimminimminimminimminimminimmini	(01011111)
Net Weight:	
Weight	300 lbs (136 Kg)
Removable weights	
Tromovable weighten	
Speed:	
Seed	Forward 3 m n h
	-
	(0 / 0 / 0 0 1.0 111. p.11
Engine:	
Model HTS-20H	
Model	GX270
Honda, 9.0 h.p., 4 cycle	
Starter	Recoil on/off switch
Governor	
Fuel Tank	
	1.4 gai. (0.0 L)
Drive:	
MachineHy	dro Gear Transmission
Primary	
T Till Gilly	Oricaves and Bells
Wheels:	
Front & Rear	13 X 5 00-6
Tront a real	
Seeding:	
Seeding Width	20"
Blade Depth	
Productivity	
Number of blades	
Trained of bladeo	double blade 20 total

PARTS SECTION

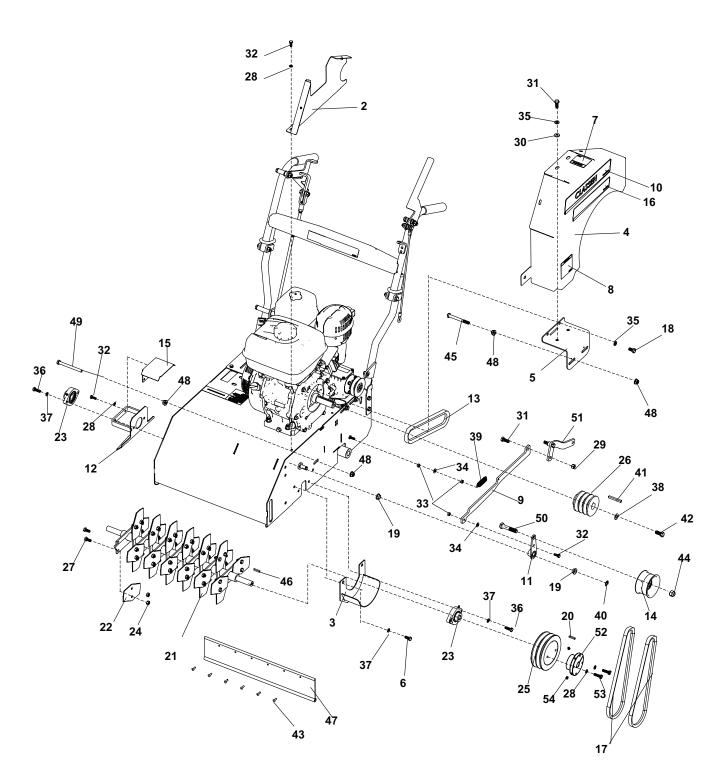


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ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4170714	S-MAIN BODY W/ LABS	1	36	C500020	BOLT, 3/8-16 x 2-1/2	1
2	4173007	DECAL, SM CLASSEN FLA	T 1	37	C100251	RING, HANDLE LOCK	2
3	C400476.7	SP LINKAGE CONN ARM	1	38	C500091	BOLT, 3/8-16 x 2	3
4	C400461.7	LFT LOWER HANDLE BAR		39	C500068	NUT, 1/4-20 NYLOC	1
5	C400462.7	RT LOWER HANDLE BAR	1	40	C500026	CLEVIS YOKE, 3/8" FTH	1
6	C500034	BOLT, 1/2 FLAT	1	41	C500129	NUT, 3/8-16	3
7	C400464.7	UPR HANDLE BAR WLDM	Г 1	42	C500083	WASHER, 5/16 FLAT	2
8	C400465.7	BRAKE ROD	1	43	C500016	PIN, 5/32" x 1-1/4" COTTER	R 1
9	C400469.7	LFT LWR CONN WLDMNT	1	44	4170473	PIN, 1/8 X 1 COTTER	7
10	C400470.7	LFT LWR CONN ARM	1	45	C500134	BOLT, 3/8-16 x 1-1/4	1
11	C400471.7	LFT LOWER FLAT ROD	1	46	C500081	NUT, 3/8-16 WHIZ LOCK	4
12	C400472.7	LFT CONTROL HANDLE	1	47	C500137	WASHER, 1/4 LOCK	5
13	C400473.7	RT LWR LEVER WLDMNT	1	48	C500076	NUT, 3/8-16 NYLOC	1
14	C400475.7	FREE WHEEL HANDLE	1	49	C500025	NUT, 3/8-24	1
15	C400477.7	RT LWR CONN WLDMNT	1	50	4169758	FOAM HANDLE GRIP	2
16	C400479.7	BLADE ENGMNT LEVER	1	51	C400467.7	SP TRANSFER WELDMEN	T 1
17	C400482.7	SP UPPER CONN ROD	1	52	C400495.7	SP CONN ROD WELDM	1
18	C400483.17	LINKAGE COUPLER	1	53	C400474.7	SP CONN ROD WELDMEN	l 1
19	C400484.7	SP LOWER CONN WLDMN	IT 1				
20	4169763	SPRING, LEFT CONTRL	1				
21	C400491.7	BELT TENSIONER LATE	1				
22	4170082	C750 CENTURY SPRING	1		*NC	OT ILLUSTRATED	
23	4170084	TENSIONER CABLE	1				
24	C500149	BOLT, 1/2-13 x 2	1				
25	C500165	BOLT, 3/8-16 X 4-1/2	1				
26	C500041	NUT, 3/8-16 LOCK	11				
27	C500042	WASHER, 3/8" FLAT	17				
28	C500146	BOLT, 3/8-16 X 1-1/2	3				
29	C500043	BOLT, 3/8-16 X 1	8				
30	C500029	BOLT, 1/4-20 x 3/4	7				
31	C500139	NUT, 1/4-20 LOCK	1				
32	C500088	WASHER, 1/4" FLAT	5				
33	C500130	WASHER, 3/8 LOCK	4				
34	C500133	BOLT, 5/16-18 x 1	4				
35	C500115	WASHER, 5/16 LOCK	4				



ITEN	I PART NO	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4170714	S-MAIN BODY W/LABS	1				
2	C400452.17	RT ANGL GEARBOX TENSIO	DN 1				
3	C400463.17	FRAME REAR ACCESS PLA	TE1				
4	C400457	REAR WHEEL SPACER	2				
5	64164-48	KEY, 5/32 X 3/16 X 5/8	1				
6*	C100060	DECAL, MUFFLER	1				
7	4170466	ENGINE EXHAUST DIVERTE	ER 1		*NOT I	LLUSTRATED	
8	C400480	WASHER, WHEEL	2				
9*	C100070	DECAL, CARBON MONOXID	E 1				
10	C400492.7	TRANSAXLE BELT PLATE	1				
11	C500146	BOLT, 3/8-16 x 1-1/2	1				
12	4169760	WHEEL & TIRE 13XX5.0X6	2				
13	4169756	6927 GEARBOX V-BELT	1				
	C500143	BOLT, 5/16-18 x 2-1/2	4				
	4169755	A26 TRANSMISSION V-BELT	Г 1				
	C100585	TRANSAXLE	1				
	121	KEY, 3/16" x 3/4" HALF MOO	N 1				
	C100010	PULLEY, IDLER	1				
	C100504	DECAL, SPARK ARRESTOR					
	4166074	ENGINE, HONDA GX270	1				
	C100490	HYDRO MNL ROLL DECAL	1				
	4170427	SPRING, C-191	1				
	C500137	WASHER, 1/4 LOCK	2				
	4169765	GEARBOX, RT ANGLE	1				
	265	SCREW, M4 X 8 THREAD CL	-				
	4169748	PULLEY, MOTOR 3BK28 X 1					
	4169751	PULLEY, GEARBOX 3-1/8X7					
	4169754	PULLEY, GEARBOX 3 X 7/8	1				
	C500041	NUT, 3/8-16 LOCK	1				
	C500041	WASHER, 3/8" FLAT	8				
	C500042	BOLT, 3/8-16 X 1	2				
	C500043	BOLT, 1/4-20 x 3/4	3				
	64164-50	KEY, 1/4" SQ X 2.20" LONG	1				
	C500076	NUT, 3/8-16 NYLOC	4				
	C500070	WASHER, 3/8 LOCK	2				
	C500130	BOLT, 5/16-18 x 1	6				
	C500133	WASHER, 5/16 LOCK	9				
	C500113	BOLT, 3/8-16 x 2	1				
	C500091	BOLT, 3/8-16 X 1-3/4	4				
	C500079	NUT, 5/16-18	1				
	C500101	NUT, 3/8-16	2				
	64164-49	KEY, 3/16" SQ X 2-1/2"	2				
	64221-08	E-RING .750	2				
	C500083	WASHER, 5/16 FLAT	2				
	C500063	BOLT, 5/16-18 X 1-3/4	1				
+0	0300074	DOLI, 5/10-10 A 1-3/4	ı				



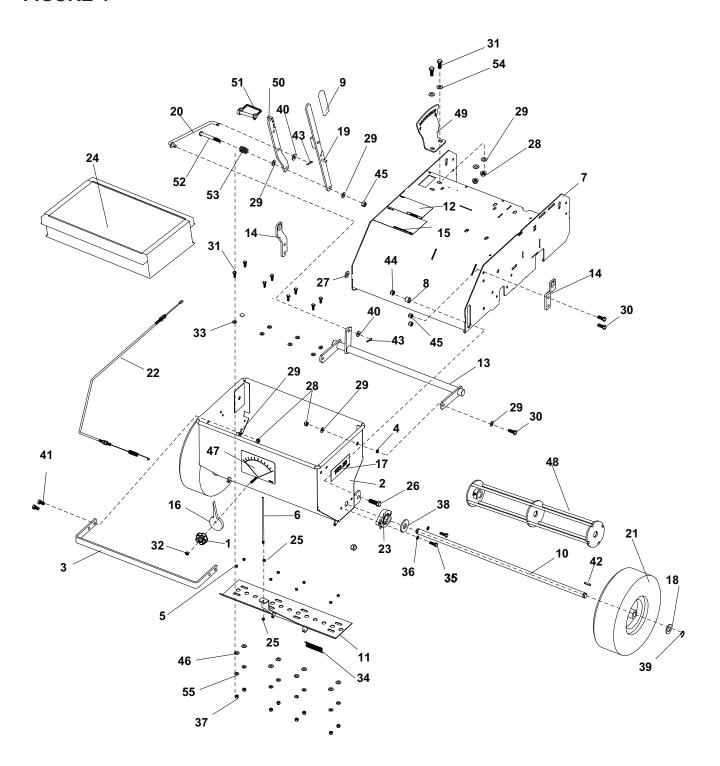
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FIGURE 3

ITEM PART NO.		PART NO.	DESCRIPTION	QTY
1	1 4170714		S-MAIN BODY W/ LABS	1
2	C4	00493.17	BELT SHIELD WLDMT	1
3	C4	00453.17	LFT SHAFT COVER WLDM	T1
4	41	70715.17	FRONT BELT SHIELD	1
5	C4	00459.17	BELT CVR MOUNT WLDMT	1
6	C5	00140	BOLT, 5/16-18 x 3/4	1
7	41	68760	LABEL WARNING - HAND	1
8	20	942	LABEL, DANGER	1
9	C4	00491.7	BELT TENSIONER PLATE	1
10	41	71963	DECAL, CLASSEN	1
11	C4	00498.17	ENGAGEMENT ARM	1
12	C4	00454.17	RIGHT SHAFT GUARD	1
13	41	69756	V-BELT 6927 GEARBOX	1
14		00208	PULLEY, DOBL IDLER	1
15		00455.17	RT SHAFT GUARD COVER	
16		00489	DECAL HYDRO DRIVE	2
17		69757	BELT, 6941 REEL	2
18		00177	BOLT, 3/8-16 X 3/4	2
19		00052	BEARING, CONTROL	2
20		00011	KEY, 3/16 SQUARE X 1	1
21		00030	BLADES SUB-ASSEMBLY,	1
22		00310	BLADE W/ 5/16" HOLES	26
23		69759	BEARING, S2 BOLT 3/4	2
24		00217	NUT, 5/16-18 AUTO. LOCK	52
25		69749	PULLEY, REEL 2BK52H	1
26		69748	PULLEY, MOTOR 3BK28X1	1
27		00216	BOLT, 5/16-18 X 3/4 GR 8	52
28		00137	WASHER, 1/4 LOCK	4
29		00041	NUT, 3/8-16 LOCK	1
30		00042	WASHER, 3/8" FLAT	8
31		00043	BOLT, 3/8-16 X 1	2
32		00029	BOLT, 1/4-20 x 3/4	3
33		00139	NUT, 1/4-20 LOCK	1
34		88000	WASHER, 1/4" FLAT	1
35		00130	WASHER, 3/8 LOCK	2
36		00133	BOLT, 5/16-18 x 1	6
37		00115	WASHER, 5/16 LOCK	9
38	64	163-115	7/16" SAE FLAT WASHER	1

ITE	M PART NO.	DESCRIPTION	QTY
39	C100655	SPRING, SMALL	1
40	C500078	E-RING, 1/2"	1
	64164-50	KEY, 1/4" SQ X 2.20" LONG	i i 1
	64123-11	BOLT, 7/16-20 X 1"	1
43	C500238	RIVET, 3/16 X 5/8 POP	6
44	64229-05	NUT-NYLON LOCK 1/2-13	1
45	C500170	BOLT, 3/8-16 X 3-1/2	2
46	C500011	KEY, 3/16 SQUARE X 1	1
47	C300015	FLAT, DRAG SHIELD	1
48	C500081	NUT, 3/8-16 WHIZ LOCK	6
49	64123-139	BLT-HEX 3/8-16X4	1
50	C500135	BOLT, 1/2-13 x 2-1/2	1
51	C400469.7	LFT LWR CONN ARM	1
52	4169750	BEARING-HUB 3/4"	1
53	C500029	BLT-1/4-20 X 3/4	2
54	C500003	KEY, 1/4 x 7/8 HALF MOON	l 1
55*	4171825	DECAL-CLASSEN PRO	1

*NOT ILLUSTRATED



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ITEN	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 36 37 37 38 37 37 37 37 37 37 37 37 37 37 37 37 37	4172692 C400450.17 4170181.7 4170182 4170183 4170184.17 4170714 4170185 C100007 C400458 C400460 4165977 C400468.7 4169927 C400478.17 C100727 C400480 C400488.7 C400490.17 4169760 4169762 4169759 C100078 C100145 C500150 C500034 C500041 C500042 C500043 C500043 C500043 C500043 C500088 C100034 C500015 C500015 C500015 C500088 C100034 C500015 C500015 C500015 C500013 C500015 C500015 C500015 C500013 C500015 C500015 C500013 C500015 C500013 C500015 C500015 C500013 C500015 C500013 C500015 C500013 C500015 C500013 C500015 C5000194	KNOB-5 PRONG 1/4-20 SEED HOPPER BOLT-ON BUMPER BUSHING, HEIGHT CNTRL BUSHING, SEED GATE GATE OPERATION FLAG S-MAIN BODY W/LABS BUSHING, SEED BOX GRIP, RUBBER SHAFT, KEYED SEED GATE WELDMENT LABEL - READ MANUAL HEIGHT CNTRL WLDMT HEIGHT CNTRL BRCKT DECAL - SEED CHART SEED FLOW SELECTOR DECAL, HTS-20 WASHER, WHEEL DEPTH ADJUST LEVER HEIGHT SLCTR WLDMT WHEEL & TIRE 13XX5.0X6 CONTROL CABLE, HTS-20 BEARING, 3/4" SHAFT COVER, VINYL SEED BOX NUT, #10-24 HEX BOLT, 1/2-13 x 1-1/2 WASHER, 1/2 FLAT NUT, 3/8-16 LOCK WASHER, 3/8" FLAT BOLT, 3/8-16 X 1 BOLT, 1/4-20 x 3/4 NUT, 1/4-20 LOCK WASHER, 1/4" FLAT SPRING, CLUTCH CABLE BOLT, 5/16-18 x 1 WASHER, 5/16 LOCK NUT, 1/4-20 NYLOC WASHER, 3/4 FLAT	8 1 1 2 1 1 1 1 2 1 1 2 1 1 2 1 2 1 2 1	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	64221-08 C500083 C500177 C500011 4170473 64229-05 C500076 64240-07 C100726 C400456.7 C400489.7 4170081 C500159 C500065 C500137 4172199	E-RING .750 WASHER, 5/16 FLAT BOLT, 3/8-16 X 3/4 KEY, 3/16 SQUARE X 1 PIN, 1/8 X 1 COTTER NUT-NYLON LOCK 1/2-13 NUT, 3/8-16 NYLOC WASHER, 3/8" NYLON DECAL - GATE OPENING SEED AGITATOR PLATE, DEPTH SELECTOR STOP, DEPTH ADJUST PIN / WIRE LOCK BOLT, 3/8-16 x 3 SPRING-SPEED STOP WASHER, 1/4 LOCK WASHER-6MM	2 1 4 2 1 2 4 8 1 1 1 1 1 2 8