## CLASSEN®

TRS-20H / TRS-20B TURF RAKE (Serial No. 001000 & UP)

**T55-20H / T55-20B TURF SEEDER** (Serial No. 001000 & UP)





PARTS MANUAL

C100563

Schiller Grounds Care, Inc. 1028 Street Road • Southampton, PA 18966 Telephone: 1-800-366-6268

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#### OWNER'S RECORD

DATE PURCHASED

TRS-20/TSS-20 SEEDER MODEL NUMBER

ENGINE MODEL NUMBER

TRS-20/TSS-20 SERIAL NUMBER

ENGINE SERIAL NUMBER

#### **INTRODUCTION**

#### THANK YOU

Thank you for purchasing a CLASSEN TRS-20/TSS-20.

#### READ THIS MANUAL

Read this manual carefully in its entirety. It contains a parts list for your TRS-20/TSS-20. By following the assembly instructions you will prolong the life of your equipment and maintain its maximum efficiency. Failure to do so could result in personal injury or equipment damage. This manual should be considered a permanent part of your TRS-20/TSS-20 and should remain with it if you sell it.

#### WARRANTY

Refer to last page.

#### **MEASUREMENTS**

U.S. Units of measure are used in this manual.

#### SERIAL NUMBERS

Write frame and engine serial numbers, plus model numbers in "Owner's Record" section ABOVE. You may need these numbers when you order parts. The serial number sticker plate is located near the left rear corner of the TRS-20/TSS-20 frame.

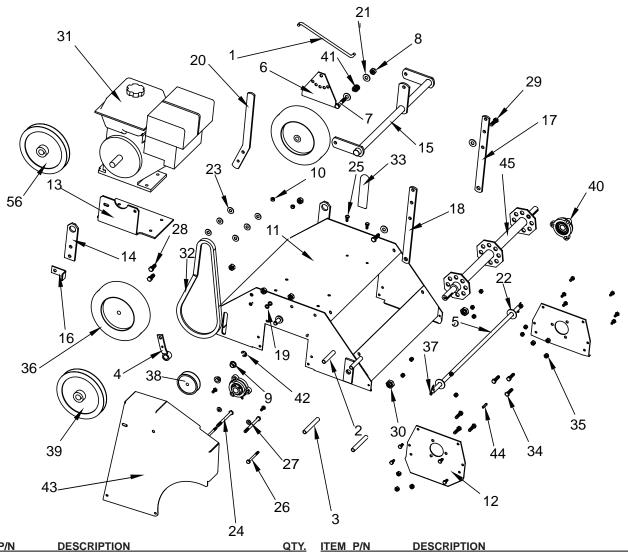
#### ORDERING PARTS

When ordering parts, always give the serial number and model of your TRS-20/TSS-20 as well as the quantity, part number and description of the part needed.

#### **DIRECTIONS**

"Right Hand" and "Left Hand" sides of the TRS-20/TSS-20 are determined by facing the "back" of the unit as you would operate the machine.

## PARTS MAIN FRAME ASSEMBLY



ITEM	P/N	DESCRIPTION	Q1
1	C300026	ROD-HEIGHT ADJ.	1
2	C400261	TOP BELT GUARD SPACER	2
3	C400260	BOTTOM GUARD SPACER	2
4	C400035	ENGAGEMENT ARM W/ BUSHING	1
5	C300027	FRONT AXLE	1
6	C300017	HEIGHT ADJUST PLATE	1
7	C500091	3/8-16 X 2 BOLT	2
8	C500076	3-8-16 NYLOC	9
9	C100052	BEARING CONTROL	2
10	C500068	1/4-20 NYLOC	12
11	C400031	WELDMENT-RAKE BODY	1
12	C300013	END PLATE	2
13	C300012	ENGINE PAD	1
14	C300018	HEIGHT ADJ. MOUNT	2
<u>15</u>	C400033	CRANK ASSEMBLY	1
16	C300036	ENGAGEMENT ARM STOP	1
<u>17</u>	C300035	RH SEED BOX SUPPORT	1
18	C300034	LH SEED BOX SUPPORT	1
19	C300030	STRUT BUSHING	2
20	C300142	HEIGHT ADJ. LEVER	1
21	C500042	3/8 FLAT WASHER	4
22	C500034	1/2 FLAT WASHER	2
23	C500083	5/16 FLAT WASHER	6
24	C500243	5/16-18 X 4 BOLT	2
25	C500069	1/4-20 X5/8 BOLT	14
26	C500244	1/4-20 X 4 1/2 BOLT	2
<u>27</u>	C500088	1/4 FLAT WASHER	2
28	C500043	3/8-16 X 1 BOLT	4
29	C500134	3/8-18 X 1 1/4 BOLT	2

ITEM	P/N	DESCRIPTION	QTY.
30	C500077	5/8-18 JAM NUT	2
31	C100137	5.5HP HONDA ENGINE	1
	C100051	ENINGE, B & S INTEK	_
32	C100065	RAKE BELT	1
33	C100007	RUBBER GRIP	1
34	C500073	5/16-18 X 1 1/4 BOLT	6
35	C500072	5/16-18 NYLOC	6
36	C100064	8" FRONT WHEEL & TIRE ASSEMBLY	2
37	C500092	HAIR PIN	2
38	C100072	FLAT IDLER W FLANGES	1
39	C100058	7" PULLEY	1
40	C100050	FLANGE BEARING	2
41	C500065	COMRESSION SPRING	1
42	C500078	E RING	1
43	C400259	PULLEY GUARD	1
44	C500011	3/16 SQ X 1 KEY	1
45	C700008	RAKE SHAFT	1
46	C100340	DECAL, TRS-20 (NOT SHOWN)	<u>1</u>
47	C100341	DECAL, TSS-20 (NOT SHOWN)	1
48	C100069	DECAL, DANGER (NOT SHOWN)	1
49	C100061	DECAL, CAUTION (NOT SHOWN)	<u>1</u>
50	C100070	DECAL, DANGER CO2 (NOT SHOWN)	1
<u>51</u>	C100060	DECAL, DANGER MUFFLER (NOT SHOWN)	<u>1</u>
52	C100073	LUBRICATION TAG (NOT SHOWN)	1
53	C100071	DECAL, BAIL ENGAGEMENT (NOT SHOWN)	1
54	C100074	DECAL, CLASSEN (NOT SHOWN)	1
55	C100342	DECAL, SPEED (NOT SHOWN)	1
56	C100038	SHEAVE, W/OUT KEY 3.15X.75 BORE	1

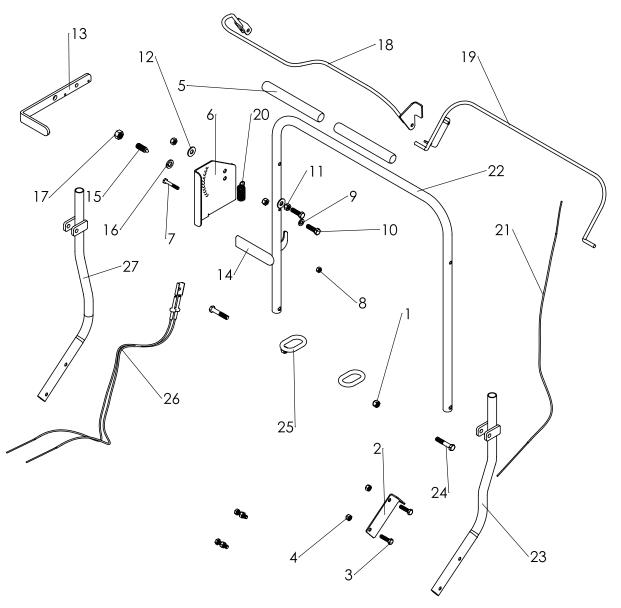
## PARTS SELF PROPELLED ASSEMBLY



ITEM	P/N	DESCRIPTION	QTY.
1	C400031	RAKE BODY WELDMENT	1
2	C100311	HYDROSTAT	1
3	C400265	SHIFTER MOUNT	<u> </u>
4	C400264	HYDROSTAT TOGGLE	1
5	C400263	NEUTRAL TOGGLE BRACKET	1
6	C500083	5/16 FLAT WASHER	9
7	C500101	5/16-18 NUT	23
8	C500140	5/16-18 X 3/4 BOLT	<u>11</u>
9	C400256	HYDRO DIFFERENTIAL MOUNT	1
10	C400240	BACK AXLE	<u> </u>
<u>11                                   </u>	C500077	5/8-18 JAM NUT	2
12	C200041	48 TOOTH SPROCKET	2
13	C500220	5/8-16 X 5 1/2 BOLT	2
14	C500115	5/16 LOCK WASHER	12
15	C100322	TRANSAXLE W SPROCKET	1
16	C100247	3/4 2-BOLT BEARING W. COLLAR	5
17	C200043	10 TOOTH PROCKET	2
18	C500011	3/16 X 1 SQ. KEY	2
19	C100324	CHAIN, 58 ROLLERS	3
20	C500006	1/2 LOCK WASHER	<u> </u>
21	C500034	1/2 FLAT WASHER	3
22	C500106	1/2 - 13 NUT	1
23	C100043	#40X17X1/2 IDLER SPROCKET	<u> </u>
24	C500174	1/2 - 13 X 1 3/4 BOLT	1
25	C200044	13 TOOTH SPROCKET	1

	\/		
ITEM	P/N	DESCRIPTION	QTY.
26	C400262	CABLE MOUNT	1
27	C500088	1/4 FLAT WASHER	12
28	C500029	1/4-20 X 3/4 BOLT	12
29	C400266	PULLEY GUARD	1
30	C500154	3/8 - 16 2 1/2 BOLT	2
31	C200042	10 TOOTH IDLER SPROCKET	2
32	C500042	3/8 FLAT WASHER	10
33	C300110	1/2 X 5/8 SPACER	2
34	C500130	3/8 LOCK WASHER	2
35	C500129	3/8 - 16 NUT	6
36	C400258	BRACKET	1
37	C100509	BK52H PULLEY	1
38	C200055	HYDRO SHAFT	1
39	C400255	LARGE GUARD	1
40	C100316	REAR WHEEL	2
41	C500133	5/16 - 18 X 1 BOLT	4
42	C100510	MA25 X 3/4" PULLEY	_1
43	C500511	AK39H PULLEY	<u>1</u>
44	C100548	C728 SPRING (NOT SHOWN)	1
45	C100549	6927 V-BELT (NOT SHOWN)	1
46	C100550	2190 GATES BELT (NOT SHOWN)	<u>1</u>
47	C200054B	15MM BUSHING (NOT SHOWN)	_1
48	C100553	3/4" BUSHING (NOT SHOWN)	1
49	C400409	COVER, JACK SHAFT SELF PROPELL	1

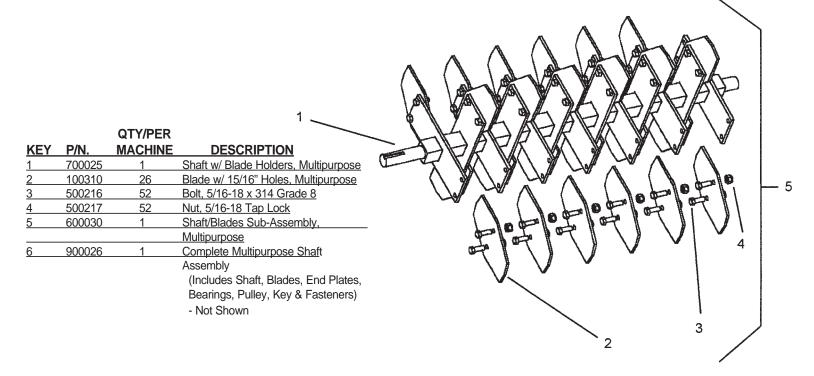
## PARTS HANDLE ASSEMBLY



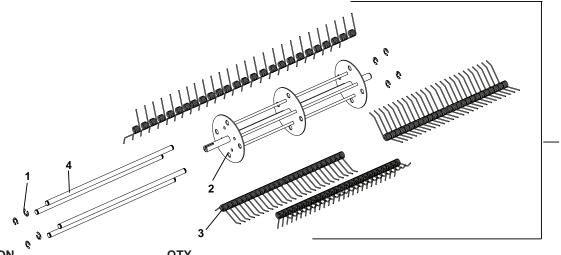
ITEN	I P/N	DESCRIPTION	QTY.
1	C500167	3/8 LOCK NUT	2
2	C300024	BRACKET, CLUTCH CABLE	1
3	C500073	5/16 X 1 1/4 BOLT	4
4	C500072	5/16 NYLOC NUT	4
5	C100261	HANDLE GRIPS	2
6	C300140	SPEED GUAGE LEVER	1
7	C500118	1/4 X 1 3/4 BIOLT	1
8	C500068	1/4 NYLOCK NUT	1
9	C500130	3/8 LOCK WASHER	1
10	C500134	3/8 X 1 1/4 BOLT	<u>2</u>
<u>11 </u>	C500129	3/8 NUT	4
12	C500042	3/8 FLAT WASHER	2
13	C300139	SPEED LEVER	1
14	C100007	RUBBER GRIP	1
15	C100326	PLUNGER	1

ITEN	/I P/N	DESCRIPTION	QTY.
<u>16</u>	C500006	1/2 LOCK WASHER	1
17	C500106	1/2 NUT	1
<u>18</u>	C400254	NUETRAL BAIL	<u> </u>
<u>19</u>	C400034	BAIL WELDMENT	<u> </u>
20	C100035	SPRING	3
21	C100053	CLUTCH CABLE	1
22	C300143	MAIN HANDLE	1
23	C300144	LOWER HANDLE LH	<u> </u>
24	C500091	3/8 - 16 X 2 BOLT	2
<u>25</u>	C100251	HANDLE LOCK RING	2
26	C100327	SHIFTER CABLE	2
27	C300145	LOWER HANDLE RH	1

### SEEDER/MULTIPURPOSE BLADE ASSEMBLY

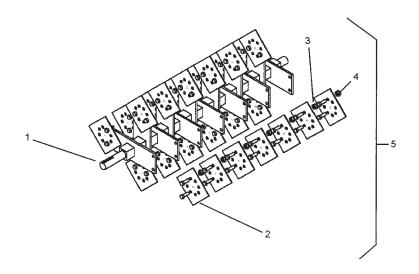


## TR-20R SPRING TINE REEL ASSY (OPTIONAL)



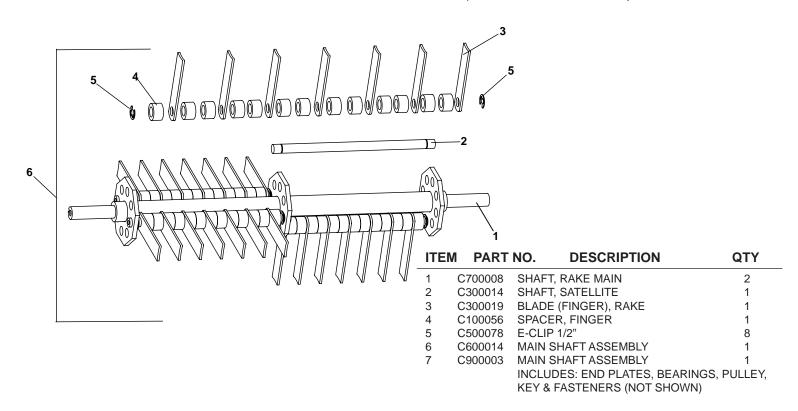
		30	
ITI	EM P/N	DESCRIPTION	QTY
1	C100620	E-Clip	8
2	C700033	Spring Mounting Rods & Reel Wldmnt	<u>1</u>
3	C100623	Spring	104
4	C600064	Spring Tine Reel Assy	1
5	C900045	Complete Spring Tine Reel Assembly	
	Includes all items in	item 4 plus:	
	C300013	End Plates	2
	C100050	Bearings	2
	C100058	Pulley	1
	C500011	Key ,3/16 Square x 1 Machine	1
	C500071	Bolt 1/4-28 x 5/8	1
	C500064	Set Screw, 5/16-18 x 3/8	2
	C500063	Set Screw, 1/4-28 x 1/4	2
	C500001	Grease Fitting 1/4-28	2
	C300025	Washer, Pulley Retainer	1
	C500072	Nut, 5/16-18 Nyloc	3
	C500073	Bolt, 5/16-18 x 1 1/4	3
	C500137	Washer, 1/4 Lock	1)

## SLICER BLADE ASSEMBLY (OPTIONAL)

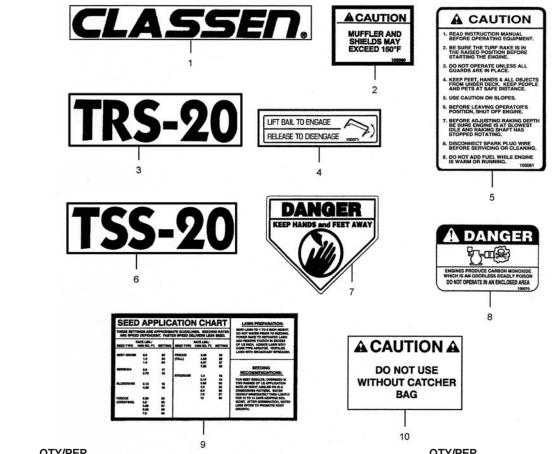


		QTY/PER	
<b>KEY</b>	P/N.	MACHINE	DESCRIPTION
1	700025	1	Shaft w/ Blade Holders, Multipurpose
2	300032	26	Blade, Slicer Square
3	500180	52	Bolt, 1/4-20 x 3/4 Grade 8
4	500160	52	Nut, 1/4-20 Top Lock
5	600024	1	Shaft/Blades Sub-Assembly,
			Multipurpose
6	900016	1	Complete Slicing Shaft Assembly
			(Includes Shaft, Blades, End Plates,
			Bearings, Pulley, Key & Fasteners)
			- Not Shown

## RAKE BLADE ASSEMBLY (OPTIONAL)



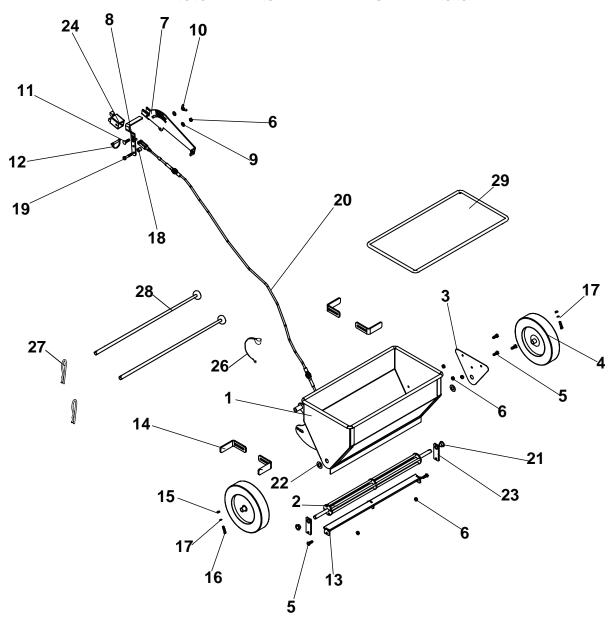
## SAFETY DECALS



		QTY/PER	
KEY	P/N.	MACHINE	DESCRIPTION
1	100074	2	Decal, "Classen"
2	100060	1	Decal, "CAUTION - Muffler and Shields
			May Exceed 150°"
3	100340	1	Decal, "TRS-20" (Turf Rake only)
4	100071	1	Decal, "Bail Engagement"
5	100061	1	Decal "CAUTION - Operating Instructions"

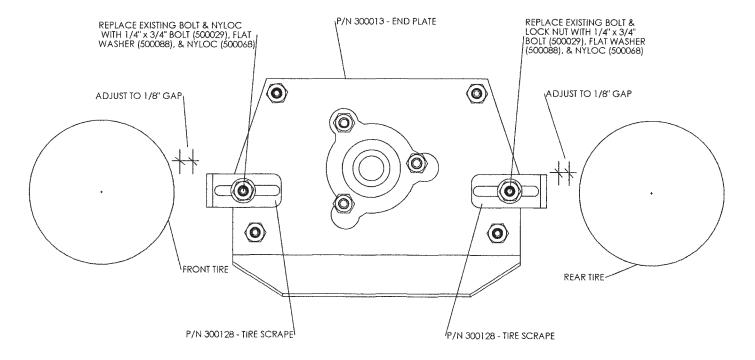
		QII/PER	
KEY	P/N.	MACHINE	DESCRIPTION
6	100341	1	Decal, "TSS-20" (Turf Seeder only)
7	100069	1	Decal, "DANGER, Keep Hands and Feet Away"
8	100070	1	Decal, "DANGER - Carbon Monoxide"
9	100138	1	Decal, "Seed Application Chart" (Turf Seeder only)
10	100228	1	Decal, "CAUTION - Catcher Bag (Turf Rake only)
11	100054	1	Manual, Operators/Parts (Not Shown)

## TSS-20 SEED BOX ASSEMBLY



	TEM PART	IO. DESCRIPTION	QTY	ITEM	PART NO	D. DESCRIPTION	QTY
1	C400399	HOPPER WELDMENT	1	18 C	400402	FLOW CONTROL HANDLE SPACER	1
2	C400400	SPREADER DRUM WELDMENT	1	19 C	500089	BOLT, 1/4-20 X 1-1/2	1
3	C400404	MAIN BODY LH CLOSURE PLATE	1	20 C	100624	SEEDER BOX ASSEMBLY	1
4	C100355	WHEEL, 8" SEED BOX DRIVE	2	21 C	100052	BEARING, CONTROL	2
5	C500029	BOLT, 1/4-20 x 3/4	5	22 C	500034	WASHER, 1/2 FLAT	2
6	C500136	NUT, 1/4-20	6	23 C	400408	SEED GATE FLAT	2
7	C400401	FLOW CONTROL	1	24 C	400405	FLOW CONTROL BRACKET	1
8	C400406	FLOW CONTROL HANDLE WELDMENT	1	25 C	100074	DECAL, CLASSEN	1
9	C500088	WASHER, 1/4 FLAT	2			(NOT SHOWN)	
10	C500119	NUT, 1/4-20 WING	1	26 C	100308	LANYARD, NYLON	1
11	C500117	BOLT, 1/4-20 X 1 CARRIAGE	1	27 C	500096	HAIRPIN, 5/32" X 3"	2
12	C500201	PIN, 1/3 X 1-3/4 CLEVIS	1	28 C	400040	ROD, CONNECTING	2
13	C400407	SEED GATE WELDMENT	1	29 C	100078	COVER, VINYL SEED BOX	1
14	C300128	WHEEL SCRAPES	4	30 C	900055	COMPLETE SEEDER BOX ASSEMBLY	1
15	C100145	NUT, #10-24 HEX	2			(INCLUDES ITEMS 1-28)	
16	C500262	BOLT, 3/16 X 3/4	2				
17	C500263	WASHER, #10-24 LOCK	2				

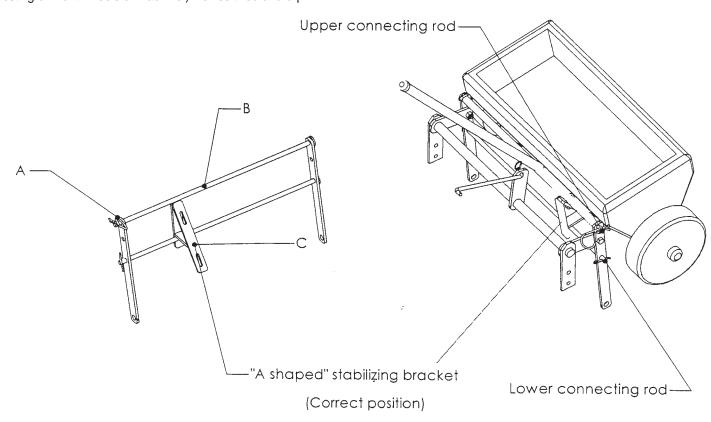
#### SEEDER TIRE SCRAPE INSTALLATION



## SEED BOX INSTALLATION

For shipping purposes only, the seed box assembly is attached to machine improperly.

To set your machine correctly for operation, remove hairpin clip (A) from upper connecting rod (B). Slide upper rod out, allowing "A shaped" stabilizing bracket (C) on seed box to sit over lower connecting rod. (When mounted properly, wheels of seed box should be resting on front wheels of machine.) Reinsert rod and clip.



# CLASSEN®

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#### TWO YEAR LIMITED WARRANTY

Effective April 1, 2007

For the period of two years from the date of purchase, CLASSEN MFG., INC. will repair or replace for the original purchaser free of charge, any part or parts found upon the examination of our factory authorized service station, or by the factory in Norfolk, Nebraska, to be defective in material or workmanship. All transportation charges on parts submitted for repair or replacement under this warranty shall be borne by the purchaser.

This warranty does not include engines or engine parts, tires, batteries, or gearboxes that are covered under separate warranties furnished by their manufacturer or supplier, nor does it include normal maintenance parts, including but not limited to, spark plugs, points, filters, blades, and lubricants.

All service under this warranty will be furnished or performed by our factory authorized service stations.

There is no other expressed warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to two years from the date of purchase and to the extent permitted by law, any and all implied warranties are excluded. The above remedy of repair and replacement of defective parts is the purchaser's exclusive remedy for any defect, malfunction or breach of warranty. Liability for incidental or consequential damages under any and all warranties is excluded to the extent permitted by law.

#### NORMAL RESPONSIBILITIES OF THE SELLER AND THE USER

- 1. The Distributor or Dealer is responsible for the proper assembly and preparation of the product for delivery to the end user.
- 2. The User is responsible for reading the Manual and Instructions.
- 3. The User is responsible for proper operation and maintenance as described in the manual.
- 4. The User is responsible for the replacement of wear items such as blades, belts, tires, batteries, etc.
- 5. The User is responsible for damage due to improper operation and maintenance, as well as abuse.

All claims must be received by the factory 30 days after the end of the warranty period to receive warranty consideration.

# See the complete line of Turf Care Products from



**COMPACT AERATORS** 

CA-18H CA-18B

STAND ON AERATOR

**SA-25** 

SPLIT DRIVE AERATORS

TA-25D TA-17D

**TURF AERATORS** 

TA-19D TA-19B TA-26D

RECIPROCATING AERATORS

RA-21H RA-21B RAS-21H RAS-21B

TOW/3PT AERATORS

48RT 60RT **TURF SEEDERS** 

TS-20H TS-20B TSS-20H TSS-20B

**TRAILERS** 

**AST** 

**TURF RAKES** 

TR-20H TR-20B TRS-20H TRS-20B TR-20RH TR-20RB

**SOD CUTTERS** 

SC-18/5.5 SC-18/8.0

**HYDRO-DRIVE SOD CUTTERS** 

SCHV-18/5.5 SCHV-18/8.0

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