

CHASSIS ASSEMBLY

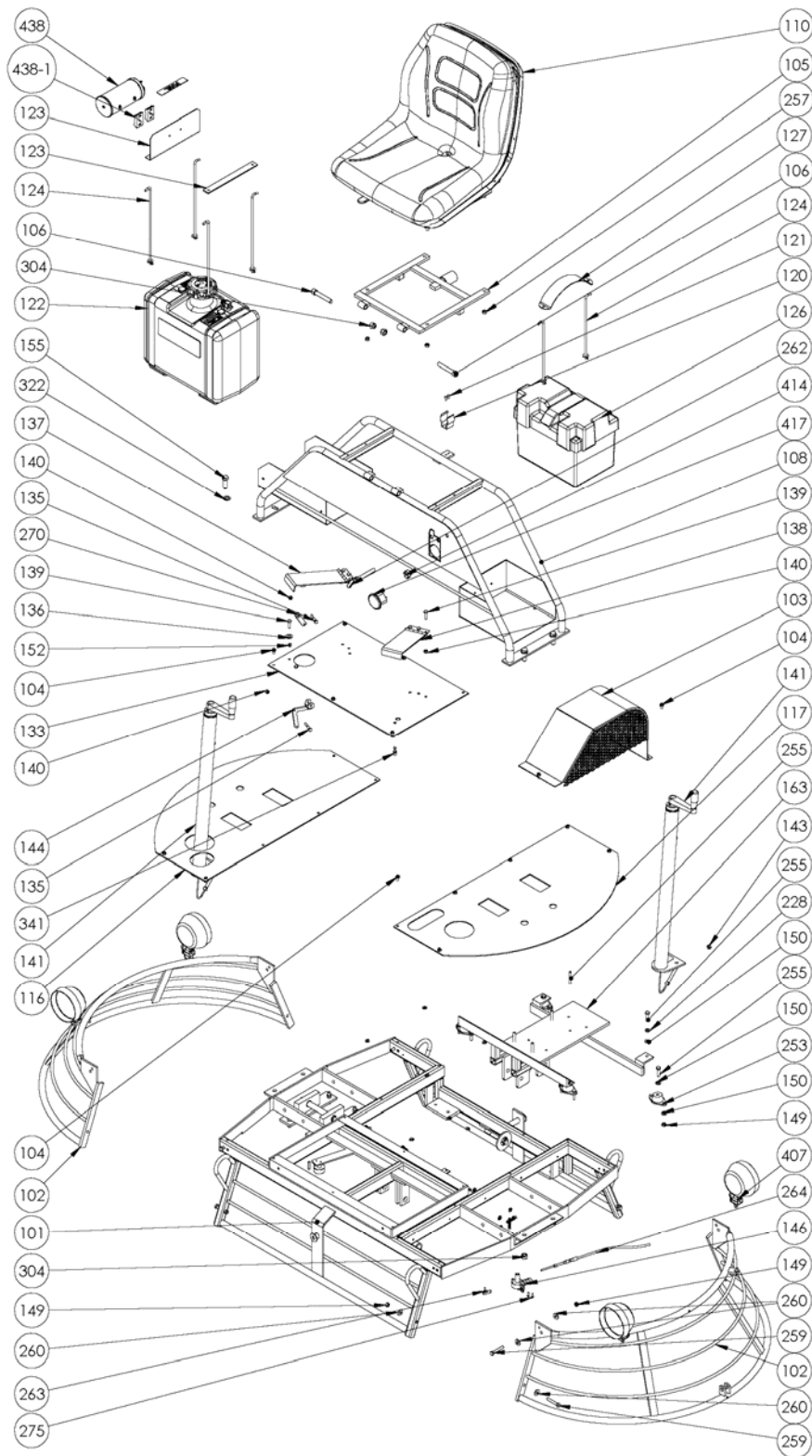


Figure 1 - Complete Chassis

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

CHASSIS BOM

Item #	Description	Item #	Description	Item #	Description
101	Chassis Weldment	134	Throttle Bracket	257	Hex Nut
102	Guard Ring	135	Hex Bolt	259	Hex Bolt
103	Belt Guard	136	Hex Nut	260	Flat Washer
104	Screw	137	Gas Pedal	262	Choke Control
105	Hinge Plate	138	Dead-man Pedal	263	Ball Joint
106	Socket Screw	139	Hex Bolt	264	Throttle Cable
108	Seat Frame	140	Lock Nut	270	Throttle Pivot
109	Spacer	141	Pitch Control	275	Screw
110	Seat	143	Lock Nut	279	Tension Screw
111	Seat Adjuster	144	Throttle Link	295	Engine Mount Plate
116	Floor Plate - RH	146	Cable Clamp	304	Lock Nut
117	Floor Plate - LH	149	Lock Nut	322	Fender Washer
120	Bar Clip	150	Flat Washer	341	Deadman Switch
121	Rivet	152	Lock Washer	406	Shut-off Switch
122	Fuel Tank	155	Hex Bolt	407	Lamp 55 Watts
123	Tank Bracket	163	Sub-frame Weldment	414	Switch
124	Hold-Down Bolt	215	Lock Washer	417	Hour Meter
125	Label Tank Bar	216	Hex Nut	437	Wiring Clamp
126	Battery Box	228	Lock Washer	438	Carb. Air Filter
127	Battery Clamp	253	Anti-vibration Mount		
133	Centre Floor Plate	255	Hex Bolt		

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

CUSTOMER PARTS LIST

Chassis Assembly

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	101	22633	Chassis	1		07/10/07
	102	13805	Ring	2		07/10/07
	103	22660	Belt Guard	1		07/10/07
	104	14596	HWHS #14 x 1/2"LG	20		07/10/07
	105	13836	Hinged Plate	1		07/10/07
		14836	Hinged Plate, Central Steering	1		07/10/07
	106	30012	SHCS 1/2-20 x 3"LG	2		07/10/07
	108	14569	Seat Frame	1		01/28/11
	109	10139	Spacer	4		07/10/07
	110	13641	Seat	1		03/15/12
	111	12896	Seat Adjuster	1		07/10/07
	112	13986	Floor Plate Cover, Central Steering	1		07/10/07
	116	13787	RH Floor Plate	1		07/10/07
	117	13786	LH Floor Plate	1		07/10/07
	120	11592	Bar Clip	1		07/10/07
	121	11042	Rivet ø3/16" x 1/2"LG	2		07/10/07
	122	18156	Fuel Tank (complete)	1		04/06/11
	122a	18106	Fuel Cap	1		04/06/11
	122b	18126	Carbon Canister (not shown)	1		04/06/11
	122c	18124	Canister Bracket (not shown)	1		04/06/11
	122d	18125	Canister Strap (set of 2) (not shown)	1		04/06/11
	123	10192	Tank Bracket	2		04/06/11
	124	13839	Hold Down Bolt Kit	3		07/10/07
	125	14480	Label Tank Bar – FUEL	1		07/10/07
	126	13192	Battery Box	1		07/10/07
	127	13595	Battery Clamp	1		07/10/07
	133	13785	Centre Floor Plate	1		07/10/07
		13985	Centre Floor Plate, Central Steering	1		07/10/07
	134	22548	Throttle Bracket	1		07/10/07
	135	12532	HHCS 1/4-20 x 1-1/2"LG	3		07/10/07
	136	10581	Hex Nut 1/4-20	2		07/10/07
	137	22546	Gas Pedal	1		07/10/07
	138	22547	Dead-man Pedal	1		07/10/07
	139	50316	HHCS 1/4-20 x 1"LG	8		07/10/07
	140	30141	Nylock Nut 1/4-20	9		07/10/07
*	141	22551	Pitch Control Assembly	2		07/10/07
	143	10317	Nylock Nut 3/8-16UNC	6		07/10/07
	144	13677	Throttle Link	1		07/10/07
	146	13863	Cable Clamp	1		07/10/07
	149	10108	Nylock Nut 5/16-18	8		07/10/07
	150	11586	Washer ø5/16	20		07/10/07
	152	10521	Lock Washer ø1/4"	2		07/10/07
	155	12516	HHCS 1/2-20 x 1-1/2"LG	4		07/10/07
	163	22708	Sub-Frame Weldment	1		07/10/07
	215	10902	Lockwasher 3/8	3		07/10/07
	216	10901	Hex Nut 3/8-16 UNC	3		07/10/07
	228	10402	Lock Washer ø5/16"	16		07/10/07
	253	14473	Anti-Vibration Mount	4		07/10/07
	255	10441	HHCS 5/16-18 x 1"LG	20		07/10/07
	257	10915	Hex Nut 5/16-18	4		07/10/07

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*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	259	10403	HHCS 5/16-18 x 2"LG	8		07/10/07
	260	10919	Washer ø5/16"	12		07/10/07
	262	12417	Choke Control (for Kohler, B&S)	1		07/10/07
	263	11124	Ball Joint	1		07/10/07
*	264	18165	Throttle Cable 42"LG GX690	1		08/10/11
	270	12970	Throttle Pivot	1		07/10/07
	275	10706	HHMS #10-24 x 1/2" LG.	2		07/10/07
	279	14999	Tension Screw 3/8-16 x 4"LG	3		07/10/07
	295	14492	Engine Mount Plate	1		07/10/07
	304	12517	Nylock Nut 1/2-20	6		07/10/07
	322	12930	Fender Washer ø1/2"	4		07/10/07
	341	13896	Dead-man Switch	1		07/10/07
*		14397	Dead-man Switch, Central Steering (located under seat)	1		07/10/07
*	407	12528	Lamp 55 Watts (for Kohler, B&S)	4		07/10/07
*	414	14377	Switch (for Kohler, B&S)	1		07/10/07
*	417	12991	Hour Meter	1		07/10/07
	437	13591	Wiring Clamp 5/8"	21		07/10/07
	438	18124	Carbon Canister	1		04/06/11
	438-1	18124	Carbon Bracket	1		04/06/11

Items marked with * are recommended spare parts

POWERPLANT ASSEMBLY

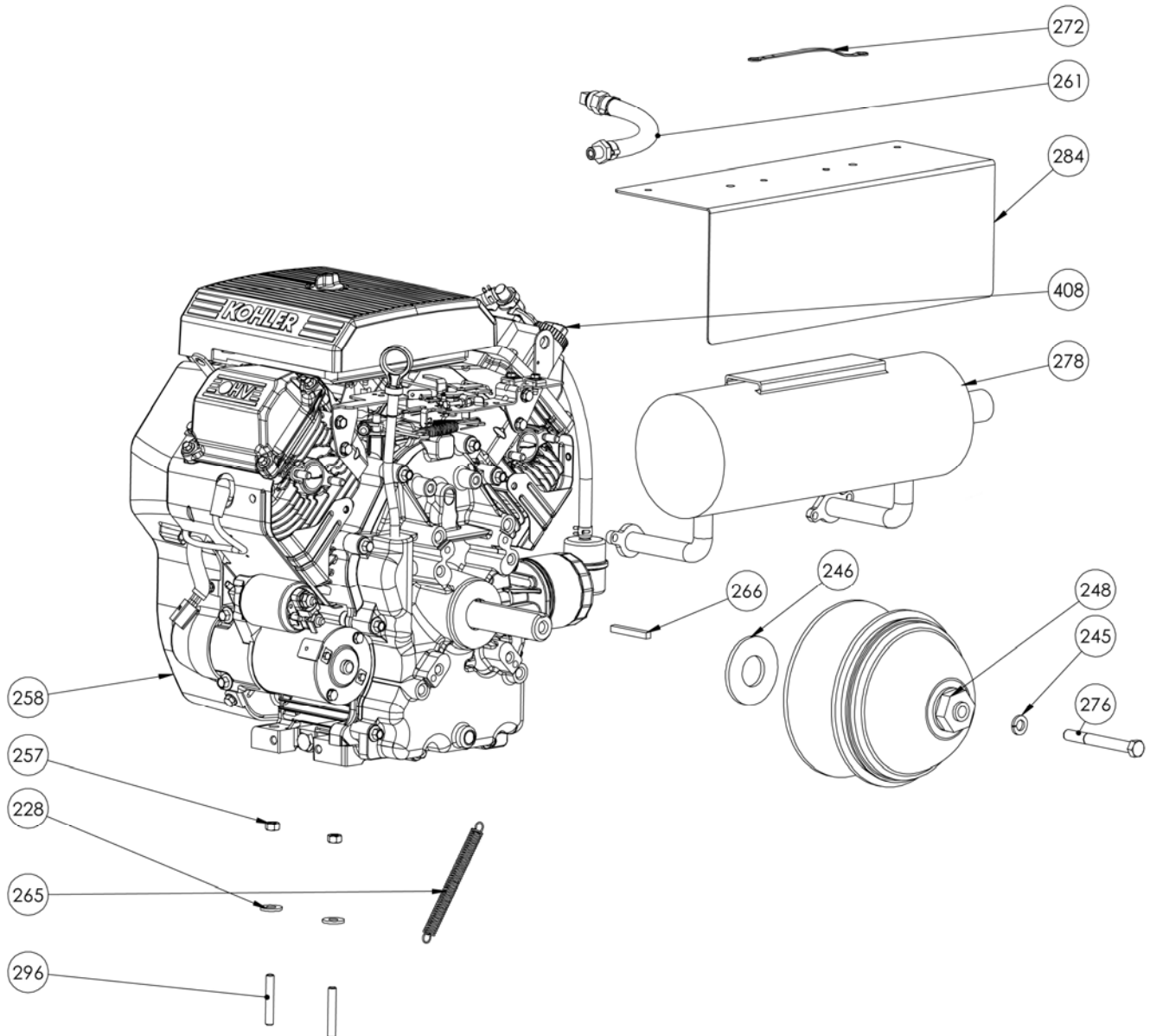


Figure 2 - Complete Powerplant

Item #	Description	Item #	Description	Item #	Description
228	Lock Washer	260	Flat Washer	278	Exhaust/Guard
245	Lock Washer	261	Oil Drain	284	Exhaust Heat Shield
246	Thick Washer	265	Spring	296	Stud
248	Clutch Pulley	266	Key	408	Starter Switch
257	Hex Nut	272	Fuel Line		
258	Engine	276	Hex Bolt		

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

CUSTOMER PARTS LIST

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	228	10402	Lock Washer 5/16"Dia.	4		07/10/07
	245	13491	Lock Washer 7/16"Dia.	1		07/10/07
	246	12708	Thick Washer, 7/16" ID. (Kohler)	1		10/04/14
*	248	14725	CVT Drive Pulley 1-1/8" Bore	1		10/04/14
	257	10915	Hex Nut 5/16-18	4		07/10/07
	258	---	Engine	1		30/03/11
	260	10919	Flat Washer 5/16"Dia., USS	2		07/10/07
	261	11825	Oil Drain	1		07/10/07
	265	13046	Spring #E11	1		07/10/07
	266	11003	Key, 1/4" x 2" (incl. with engine)	1		07/10/07
	272	12947	Fuel Line	1		07/10/07
	276	13487	HHCS 7/16-20 x 1-1/2"LG	1		07/10/07
	278	13887	Muffler	1		10/04/14
	284	14688	Exhaust Heat Shield	1		10/04/14
	296	10943	5/16-18 UNC x 2"LG. Stud	4		07/10/07
*	408	14648	Starter Switch (Kohler)	1		30/03/11

Items marked with * are recommended spare parts

DRIVETRAIN ASSEMBLY

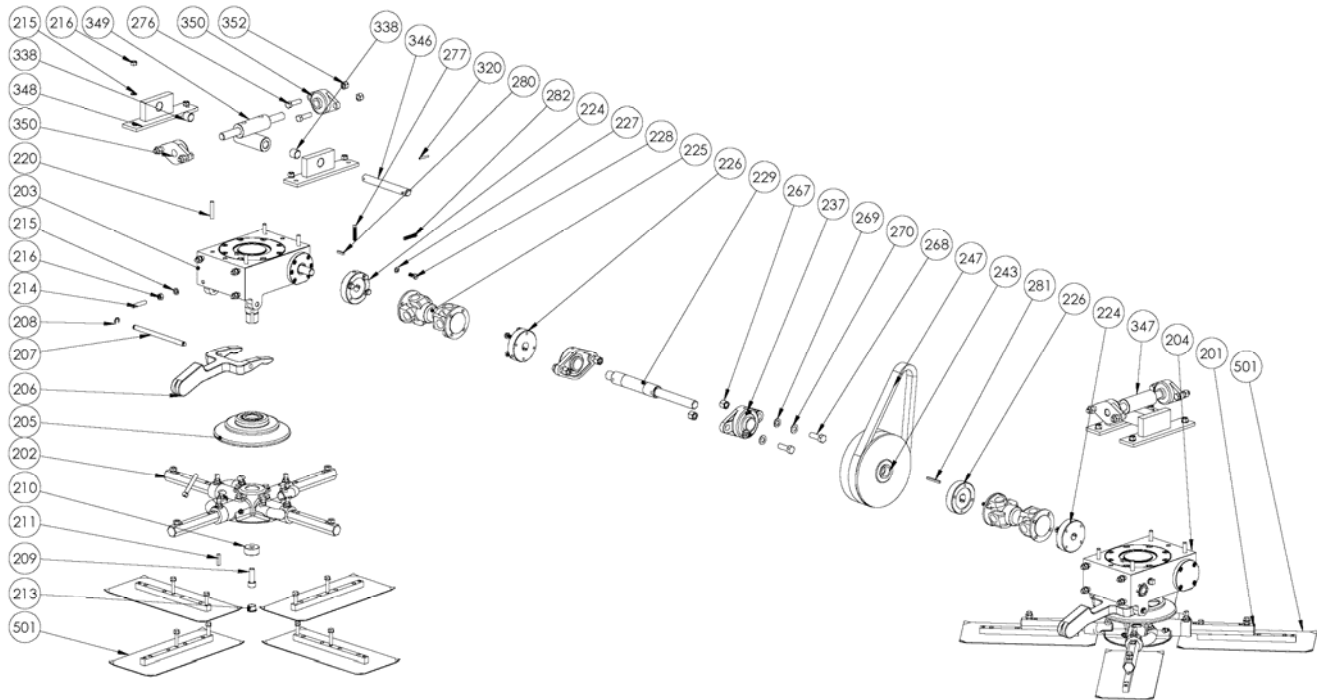


Figure 3 - Complete Drivetrain

Item #	Description	Item #	Description	Item #	Description
150	Flat Washer	216	Hex Nut	276	Hex Bolt
201	Spider Assembly	220	Stud	277	Square Head Screw
202	Spider Assembly	224	Drive Flange	280	Key
203	Gearbox Assembly	225	U-Joint Coupling	281	Key
204	Gearbox Assembly	226	Drive Flange	282	Set Screw
205	Pressure Plate Ass'm	227	Hex Bolt	320	Pin
206	Yoke Arm Large	228	Lock Washer	338	Bushing
207	Yoke Arm Pin	229	Drive Shaft	346	Support Pint
208	Retaining Ring	237	Ball Bearing	347	Pivot Bracket
209	Retainer	243	Pulley	348	Bracket Set
210	Socket Bolt	247	V-Belt	349	Cross Bracket
211	Key	267	Hex Nut	350	Flange Bearing
213	Cap Plug	268	Hex Bolt	352	Lock Nut
214	Stud	269	Washer	501	Trowel Blade
215	Lock Washer	270	Lock Washer		

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CUSTOMER PARTS LIST **DRIVE TRAIN ASSEMBLY**

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	150	11586	Washer 5/16"	16		07/10/07
	201	20843	Spider Assembly TS78 – CW Rot.	1		07/10/07
	202	20844	Spider Assembly TS78 – CCW Rot.	1		07/10/07
	203	20968	Gearbox Assembly – Right Side	1		07/10/07
	204	20969	Gearbox Assembly – Left Side	1		07/10/07
	205	20626	Pressure Plate Ass'm LG	2		07/10/07
*	206	10311	Yoke Arm Large	2		07/10/07
*	207	10914	Yoke Arm Pin #3025	2		07/10/07
	208	10913	Retaining Ring 7/16" Dia. Shaft	4		07/10/07
	209	10804	Retainer	2		07/10/07
	210	10802	SHCS,1/2-13 x 1 ½" LG.	2		07/10/07
*	211	10608	Key	2		07/10/07
	213	10823	Cap Plug Ec-12	2		07/10/07
	214	11339	Stud, 3/8-16UNC X 1-1/2"LG	8		07/10/07
	215	10902	Lock Washer 3/8"	16		07/10/07
	216	10901	Hex Nut 3/8-16 UNC	17		07/10/07
	220	11247	Stud 3/8-16UNC X 1-1/4"LG PLT	8		07/10/07
*	224	13181	U-Joint Drive Flange	2		07/10/07
*	225	13180	Short Coupled U-Joint Coupling	2		07/10/07
*	226	13182	U-Joint Drive Flange	2		07/10/07
	227	30142	HHCS 5/16-18 UNC x ¾"LG	16		07/10/07
	228	10402	Lock Washer 5/16"Dia	16		07/10/07
	229	22709	Driveshaft, Ts78	1		07/10/07
	237	13246	Bearing, Ball, Setscrew Type	2		07/10/07
	243	14726	Pulley	1		03/10/12
	247	14711	Drive Belt	1		03/10/12
	267	12519	Hex Nut	1		07/10/07
	276	10269	HHCS 7/16-20 X 1-1/2"LG	8		07/10/07
	277	13964	SHSS 5/16-18 X 1-1/2"LG Cup Point	4		07/10/07
	280	12454	Key 3/16" Sq. x 7/8"Lg	2		07/10/07
	281	10206	Key 3/16"SQ X 1-7/8"LG	1		07/10/07
	282	12931	SHSS 5/16-18 X 1-1/4"LG Cup Point	6		07/10/07
	320	10315	Pin 3/16" Dia x 1 ¼" LG.	2		07/10/07
	338	12586	Bushing	4		07/10/07
	346	12497	Cross Bushing Support Pin	1		07/10/07
	347	22625	Left Hand Pivot Bracket	1		07/10/07
	348	22473	Right Pivot Bracket Set	1		07/10/07
	349	13802	Cross Bracket TS78	1		07/10/07
	350	13570	Flange Bearing 20 MM ID.	4		07/10/07
	352	13488	Hex Locknut 7/16-20, Nylon	8		07/10/07
		20414	Trowel Blade 6 x 14 Imperial	8		07/10/07
		20457	Trowel Blade 6 x 14 Metric	8		07/10/07
	501	20480	Combo Blade 8 x 18 Imperial	8		07/10/07

Items marked with * are recommended spare parts

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

STEERING ASSEMBLY (OUTER POSITION)

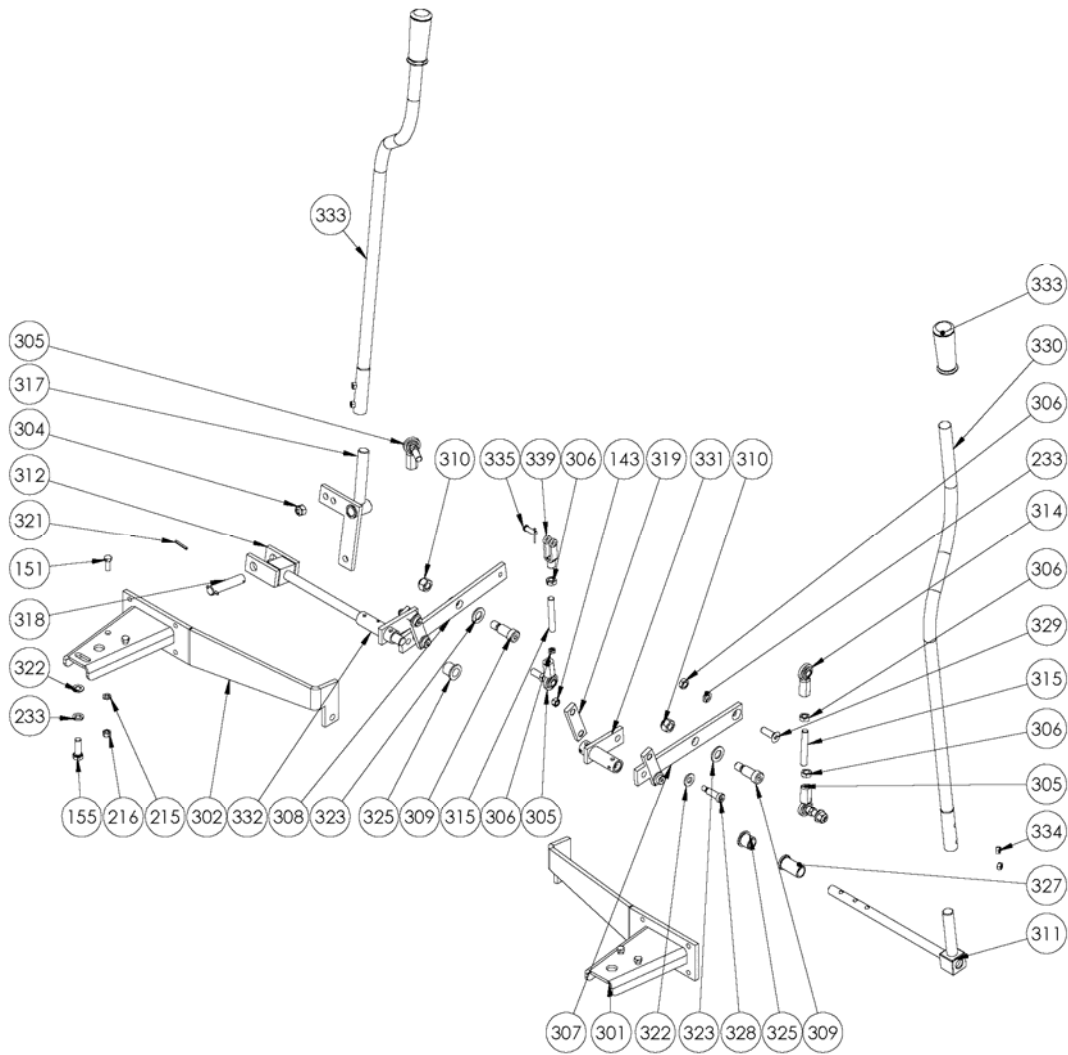


Figure 4 – Complete Steering

Item #	Description	Item #	Description	Item #	Description
143	Lock Nut	309	Socket Bolt	326	Bushing
151	Hex Bolt	310	Lock Nut	327	Pin
155	Hex Bolt	311	Steering Bracket	328	Shoulder Bolt
215	Lock Washer	312	Steering Bracket	329	Flat Head Screw
216	Hex Nut	314	Rod End	330	Control Handle
233	Lock Washer	315	Thread Rod	331	Steering Lever
301	Steering Arm Ass'y	317	Handle Lever	332	Steering Lever
302	Steering Arm Ass'y	318	Steering Pin	333	Hand Grip
304	Lock Nut	319	Pivot Link	334	Setscrew
305	Rod End	320	Pin	335	Clevis Pin
306	Hex Jam Nut	322	Fender Washer	339	Yoke End Clevis
307	Pivot Plate, LH	323	Washer		
308	Pivot Plate, RH	325	Bushing		

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

CUSTOMER PARTS LIST **Steering Assembly (Outer Position)**

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	143	10317	Nylock Nut 3/8-16	4		07/10/07
	151	10507	HHCS, 3/8-16 x 1"LG	4		07/10/07
	155	12516	HHCS, 1/2-20 x 1-1/2"LG	1		07/10/07
	215	10902	Lock Washer ø3/8"	4		07/10/07
	216	10901	Hex Nut 3/8-16	4		07/10/07
	233	10009	Lock Washer ø1/2"	1		07/10/07
	301	14465	Steering Arm Assembly, LH	1		07/10/07
	302	14466	Steering Arm Assembly, RH	1		07/10/07
	304	12517	Nylock Nut 1/2-20	3		07/10/07
*	305	12412	Rod End	4		07/10/07
	306	12592	Hex Jam Nut 1/2-20	5		07/10/07
	307	13976	Pivot Plate, LH	1		07/10/07
	308	13956	Pivot Plate, RH	1		07/10/07
	309	13481	SHSB, 3/4"	2		07/10/07
	310	13578	Lock Nut, 5/8-11 UNC	2		07/10/07
	311	13795	Steering Bracket, LH	1		07/10/07
	312	13792	Steering Bracket, RH	1		07/10/07
*	314	12420	Rod End 1/2-20 x ø.500" Eye, Female	1		07/10/07
	315	12659	Threaded Rod, 1/2-20 x 3-1/4"LG	2		07/10/07
	317	13798	Handle Lever	1		07/10/07
	318	13741	Steering Pin	1		07/10/07
	319	13571	Pivot Link	4		07/10/07
	321	10315	Pin 3/16" x 1-1/4"	2		07/10/07
	322	12930	Fender Washer, ø1/2"	1		07/10/07
	323	10306	Washer	2		07/10/07
*	325	12593	Bushing 1" x 3/4" x 7/8", 1/8 Head	2		07/10/07
*	326	12763	Bushing 1" x 3/4" x 2" c/w Head	2		07/10/07
	327	12627	Spiral Pin ø5/16"	4		07/10/07
	328	12985	SHSB 3/8-16 x 1/2" Shoulder x 1-1/4"	4		07/10/07
	329	13945	FHSC 1/2-20 x 1-1/2"LG	1		07/10/07
*	330	13821	Handle	2		07/10/07
	331	13789	Steering Lever, LH	1		07/10/07
	332	13790	Steering Lever, RH	1		07/10/07
	333	13065	Handle Grip ø1"	2		07/10/07
	334	50117	SHSS 5/16-18 X 1/2"LG, Cup Point, Nylock	4		07/10/07
*	335	13949	Clevis Pin	1		07/10/07
*	339	13946	Yoke End Clevis & Cotter Pin	1		07/10/07

Items marked with * are recommended spare parts

STEERING ASSEMBLY (CENTRAL STEERING)

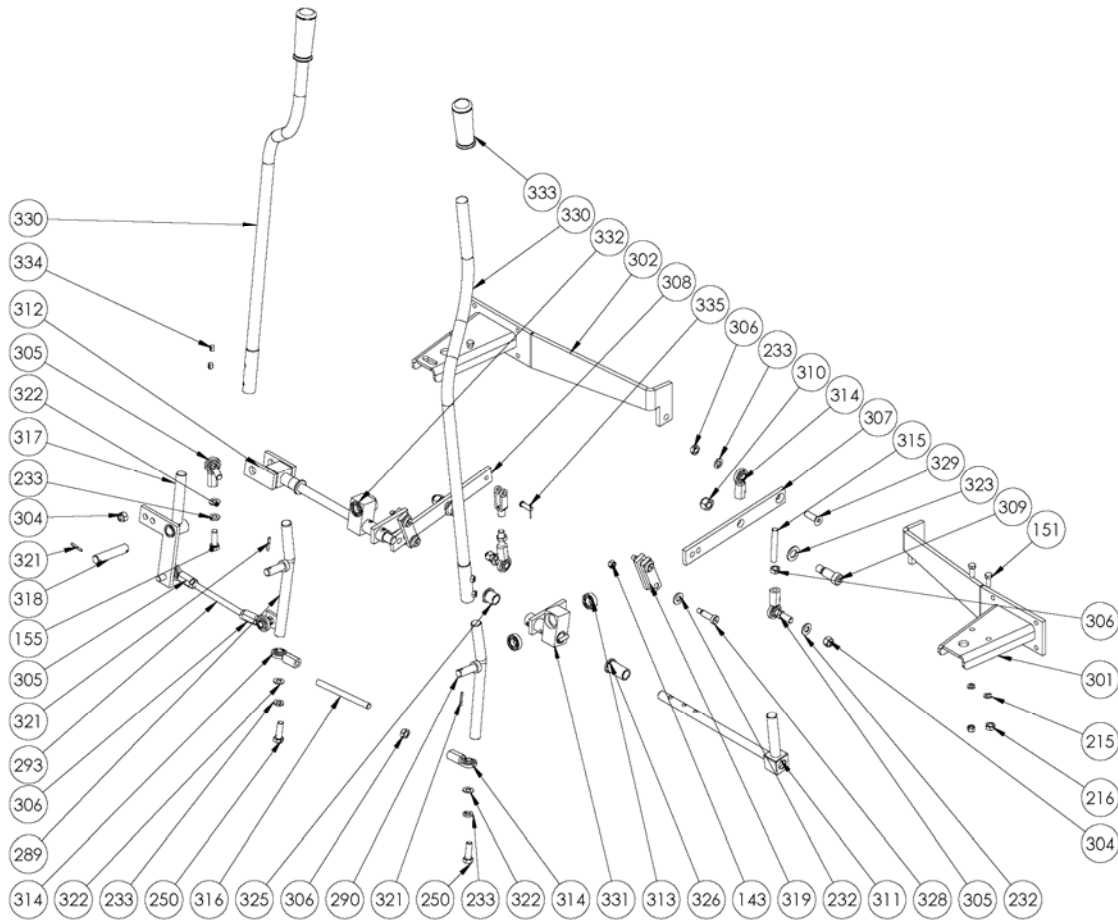


Figure 5 – Complete Steering

Item #	Description	Item #	Description	Item #	Description
143	Lock Nut	306	Hex Jam Nut	322	Fender Washer
151	Hex Bolt	307	Pivot Plate, LH	323	Washer
155	Hex Bolt	308	Pivot Plate, RH	325	Bushing
215	Lock Washer	309	Socket Bolt	326	Bushing
216	Hex Nut	310	Lock Nut	327	Pin
232	Flat Washer	311	Steering Bracket	328	Shoulder Bolt
233	Lock Washer	312	Steering Bracket	329	Flat Head Screw
250	Hex Bolt	313	Bearing	330	Control Handle
289	Steering Link, RH	314	Rod End	331	Steering Lever
290	Steering Link, LH	315	Thread Rod	332	Steering Lever
293	L/R Push Rod	316	Push Rod	333	Hand Grip
301	Steering Arm Ass'y	317	Handle Lever	334	Setscrew
302	Steering Arm Ass'y	318	Steering Pin	335	Clevis Pin
304	Lock Nut	319	Pivot Link	339	Yoke End Clevis
305	Rod End	321	Pin	340	Spray Switch/Deadman (not shown)

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

CUSTOMER PARTS LIST Central Steering

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	143	10317	Nylock Nut 3/8-16	4		07/10/07
	151	10507	HHCS, 3/8-16 x 1"LG	4		07/10/07
	155	12516	HHCS, 1/2-20 x 1-1/2"LG	1		07/10/07
	215	10902	Lock Washer ø3/8"	4		07/10/07
	216	10901	Hex Nut 3/8-16	4		07/10/07
	232	50026	Flat Washer, ø1/2"	8		07/10/07
	233	10009	Lock Washer ø1/2"	1		07/10/07
	250	30019	HHCS, 1/2-13x1 1/2" LG.	2		07/10/07
	289	13983	Steering Link, RH	1		07/10/07
	290	13984	Steering Link, LH	1		07/10/07
	293	13987	L/R Push Rod	1		07/10/07
	301	14465	Steering Arm Assembly, LH	1		07/10/07
	302	14466	Steering Arm Assembly, RH	1		07/10/07
	304	12517	Nylock Nut 1/2-20	5		07/10/07
*	305	12412	Rod End	5		07/10/07
	306	12592	Hex Jam Nut 1/2-20	9		07/10/07
	307	13976	Pivot Plate, LH	1		07/10/07
	308	13956	Pivot Plate, RH	1		07/10/07
	309	13481	SHSB, 3/4"	2		07/10/07
	310	13578	Lock Nut, 5/8-11 UNC	2		07/10/07
	311	13795	Steering Bracket, LH	1		07/10/07
	312	13792	Steering Bracket, RH	1		07/10/07
	313	13883	Bearing	4		07/10/07
*	314	12420	Rod End 1/2-20 x ø.500" Eye, Female	3		07/10/07
	315	12659	Threaded Rod, 1/2-20 x 3-1/4"LG	2		07/10/07
	316	13478	Push Rod	1		07/10/07
	317	13980	Handle Lever	1		07/10/07
	318	13480	Steering Pin	1		07/10/07
	319	13571	Pivot Link	4		07/10/07
	321	10315	Pin 3/16" x 1-1/4"	4		07/10/07
	322	12930	Fender Washer, ø1/2"	4		07/10/07
	323	10306	Washer	2		07/10/07
*	325	12593	Bushing 1" x 3/4" x 7/8", 1/8 Head	2		07/10/07
*	326	12763	Bushing 1" x 3/4" x 2" c/w Head	2		07/10/07
	327	12627	Spiral Pin ø5/16"	4		07/10/07
	328	12985	SHSB 3/8-16 x 1/2" Shoulder x 1-1/4"	4		07/10/07
	329	13945	FHSC 1/2-20 x 1-1/2"LG	1		07/10/07
*	330	13821	Handle	2		07/10/07
	331	13982	Steering Lever, LH	1		07/10/07
	332	13981	Steering Lever, RH	1		07/10/07
	333	13065	Handle Grip ø1"	2		07/10/07
	334	50117	SHSS 5/16-18 X 1/2"LG, Cup Point	4		07/10/07
*	335	13949	Clevis Pin	1		07/10/07
*	339	13946	Yoke End Clevis & Cotter Pin	1		07/10/07
	340	13896	Spray Switch (Spray Option)	1		07/10/07

Items marked with * are recommended spare parts

GEARBOX ASSEMBLY

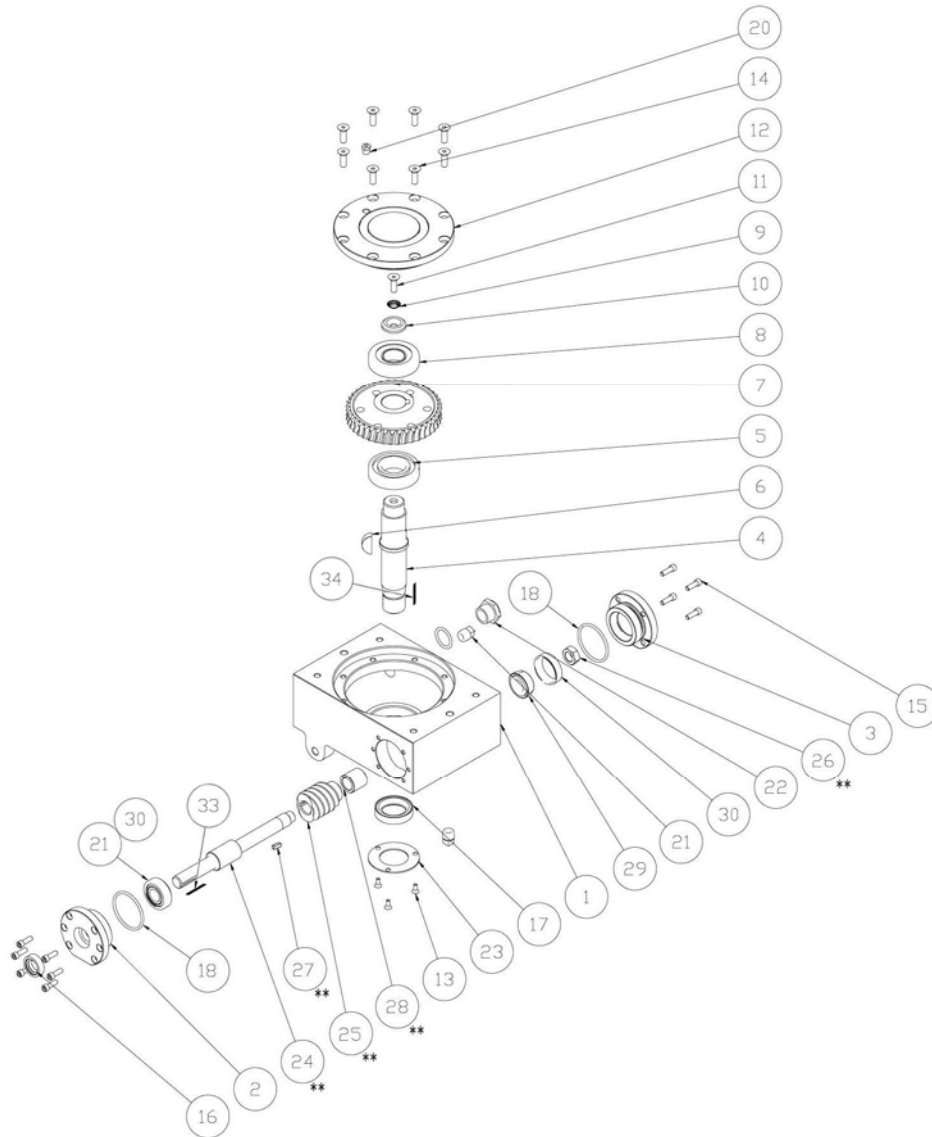


Figure 6 – Gearbox Assembly

Note: Right hand gearbox shown.

Item #	Description	Item #	Description	Item #	Description
1	Gear Housing	12	Gearbox Cover	23	Seal Retainer
2	Large Flange	13	Flat Head Screw	24	Counter Shaft
3	End Cap	14	Flat Head Screw	25	Worm
4	Main Shaft	15	Socket Head Screw	26	Jam Nut
5	Bearing Cup	16	Oil Seal	27	Key
6	Woodruff Key	17	Oil Seal	28	Spacer
7	Worm Gear	18	O Ring	29	Bearing Cone
8	Taper Bearing	19	O Ring	30	Bearing Cup
9	Lock Washer	20	Relieve Valve	32	Cover Shim
10	Pressure Washer	21	Plug	33	Key
11	Flat Head Screw	22	Sight Plug	34	Key

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

CUSTOMER PARTS LIST

Gearbox Assembly

*	Item #	LH, CW 20969	RH, CCW 20968	Description	Qty	Eff. S/N	Eff. Date
	1	10944	10945	Gear Housing	1		07/10/07
	2	10231	10231	Large Flange	1		07/10/07
	3	10258	10258	End Cap, Ride-on	1		07/10/07
	4	10640	10639	Ride-on Main Shaft	1		07/10/07
*	5	14256	14256	Bearing	1		07/10/07
	6	10638	10638	3/8" Woodruff Key	1		07/10/07
*	7	10642	10641	Bronze Main Gear	1		07/10/07
	8	10603	10603	Taper Bearing, Cup and Cone	1		07/10/07
	9	10637	10637	3/8"CSK, Lock Washer	1		07/10/07
	10	10613	10613	Pressure Washer	1		07/10/07
	11	10601	10101	FHCS, 3/8-16 UNC x 1" LG.	1		07/10/07
	12	10929	10929	Gearbox Cover, Large	1		07/10/07
*	13	10951	10951	FHCS, 10 – 24 UNC x ½" LG.	3		07/10/07
*	14	10903	10903	FHCS, 5/16 – 18 UNC x 1" LG.	8		07/10/07
	15	10213	10213	SHCS, ¼ – 20 UNC x ¾" LG.	10		07/10/07
	16	10678	10678	Oil Seal	1		07/10/07
	17	10676	10676	Oil Seal	1		07/10/07
	18	10228	10228	O Ring, No. 227	2		07/10/07
	19	10931	10931	O Ring, No. 213	1		07/10/07
	20	10909	10909	Relieve Valve	1		07/10/07
	21	10911	10911	Plug, 3/8 NPT	2		07/10/07
	22	10930	10930	Sight Plug	1		07/10/07
	23	10950	10950	Seal Retainer	1		07/10/07
	24	10276	10276	Counter Shaft	1		07/10/07
*	25	10274	10273	Worm	1		07/10/07
	26	10202	10202	Jam Nut, 5/8 – 18 UNF	1		07/10/07
	27	10206	10206	Key, 3/16" SQ. x 1 7/8" LG.	1		07/10/07
	28	10223	10223	Spacer	1		07/10/07
	29	10229	10229	Bearing Cone (must buy 10230)	2		07/10/07
	30	10230	10230	Bearing Cup (must buy 10229)	2		07/10/07
	**31	20269	20268	Countershaft Assembly	1		07/10/07
	32	10933	10933	Shim (.003"), (For Item 12 – not shown)	A/R		07/10/07
		10935	10935	Shim (.005"), (For Item 12 – not shown)	A/R		07/10/07
	33	12454	12454	Key, 3/16" SQ x 7/6" LG	1		07/10/07
	34	10608	10608	Key, 1/4" SQ x 1 5/32" LG	1		07/10/07

Items marked with * are recommended spare parts

PITCH CONTROL ASSEMBLY

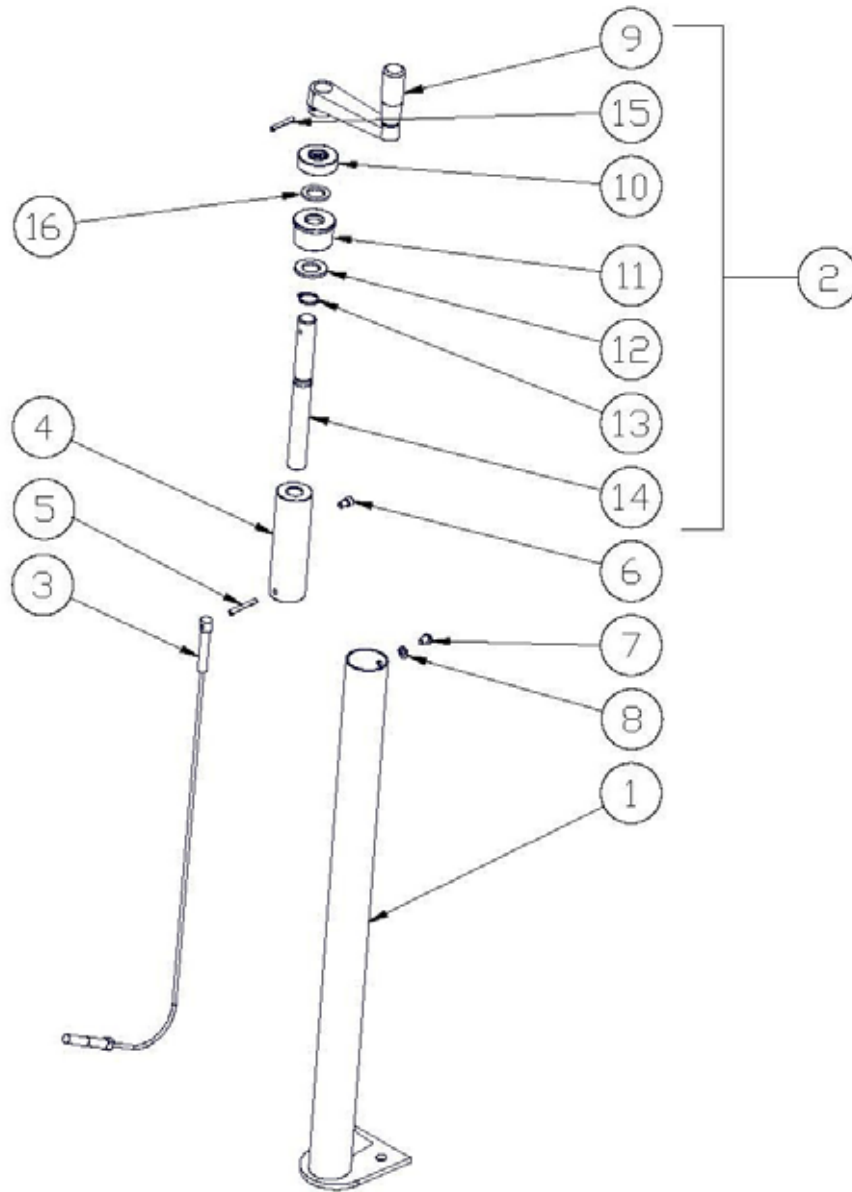


Figure 7 – Steering Assembly

Item #	Description	Item #	Description
1	Tube	9	Crank Handle
2	Crank Handle Assembly	10	Bearing
3	Control Cable	11	Bushing
4	Slide Bushing	12	Flat Washer
5	Spring Pin	13	Retainer
6	Socket Head Screw	14	Screw Shaft
7	Round Head Screw	15	Spring Pin
8	Lock Washer	16	Shim Ring

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CUSTOMER PARTS LIST

Assembly # **22551**
PITCH CONTROL ASS'Y

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	1	22538	Tube	1		07/10/07
	2	22573	Crank Handle Assembly	1		07/10/07
	3	22539	Control Cable	1		07/10/07
	4	10308	Slide Bushing	1		07/10/07
	5	10309	Spring Pin $\varnothing 3/16"$ x 1-1/2"	1		07/10/07
	6	10510	SHCS 1/4-20 x 3/8"LG	1		07/10/07
	7	10511	RHMS 1/4-20 x 3/8"LG	1		07/10/07
	8	10521	Lock Washer $\varnothing 1/4"$	1		07/10/07
	9	12893	Crank Handle	1		07/10/07
	10	10304	Bearing	1		07/10/07
	11	10305	Bushing	1		07/10/07
	12	10306	Washer	1		07/10/07
	13	10307	Retainer	1		07/10/07
	14	10303	Screw Shaft	1		07/10/07
	15	10309	Spring Pin $\varnothing 3/16"$ x 1-1/4"LG	1		07/10/07
	16	22674	Shim Ring $3/4"$ ID x 1 1/8" ODx047	1		07/10/07

Items marked with * are recommended spare parts

SPIDER PLATE ASSEMBLY

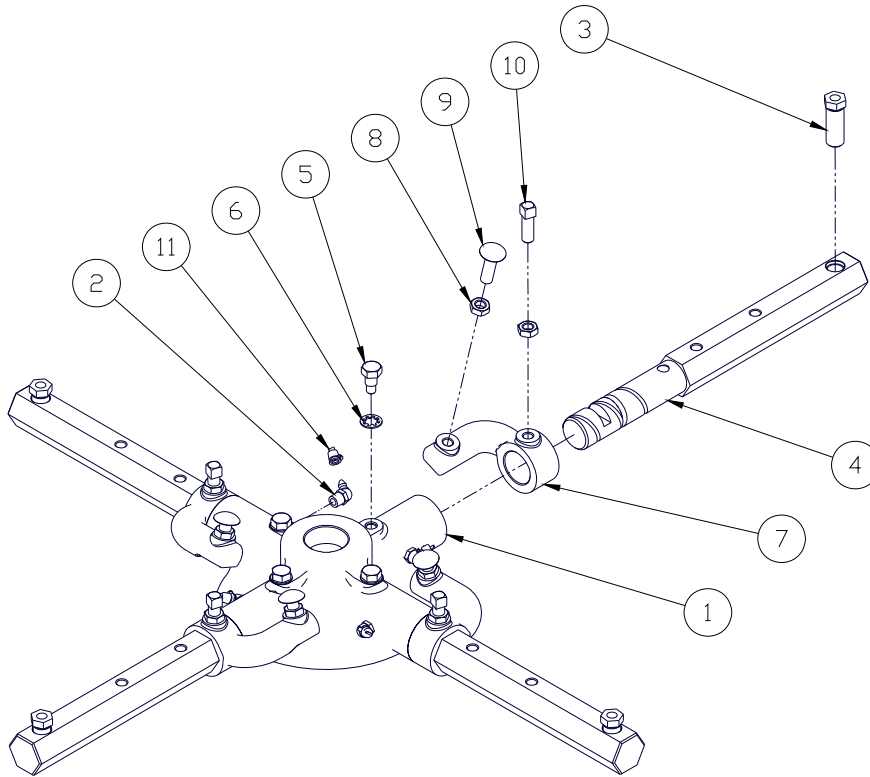


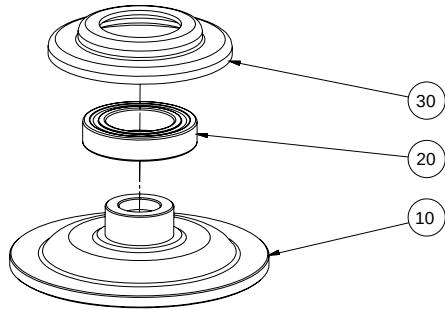
Figure 8 – Greased Spider Assembly (LH Shown)
Spider Plate Assembly, Grease

Item #	RH, CCW Rotation 20844	LH, CW Rotation 20843	Description	Qty	Eff. S/N	Eff. Date
1	10840	10820	4 Spoke Spider Plate	1		07/10/07
2	10801	10801	Grease Fitting 1/8 NPT x 658	4		07/10/07
3	10404	10404	Adjusting Screw 1 1/4" LG.	4		07/10/07
4	10470	10470	Trowel Arm 72/78 Hex	4		07/10/07
5	10806	10806	HHCS 3/8-16 x 7/8" LG.	4		07/10/07
6	10805	10805	Lock Washer $\varnothing$ 3/8" External Tooth	4		07/10/07
7	10839	10819	Lift Lever	4		07/10/07
8	10808	10808	Jam Nut 3/8-16	8		07/10/07
9	10807	10807	Carriage Bolt 3/8-16 x 1 1/4" LG.	4		07/10/07
10	10809	10809	SHSS 3/8-16 x 1" Cup Point	4		07/10/07
11	10822	10822	Cap Plug	4		07/10/07

Items marked with * are recommended spare parts

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

CUSTOMER PARTS LIST



Item #	Description
10	Pressure Plate
20	Thrust Bearing
30	Pressure Plate Cap

Figure 9 – Pressure Plate Assembly

Assembly # **20626**

Pressure Plate Assembly

Item #	Part #	Description	Qty	EFF. S/N	Eff. Date
10	10659	Large pressure plate	1		10/20/04
20	10663	Large thrust bearing 6010LLU-2A	1		10/20/04
30	10667	Large pressure plate cap	1		10/20/04

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

TROWEL BLADE ASSEMBLY

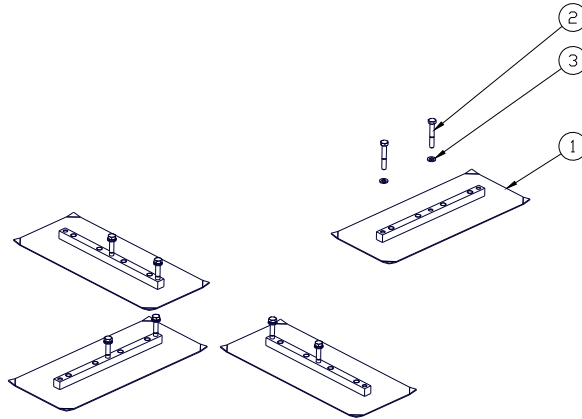


Figure 10 – Trowel Blades

Note: 6 x 14 Model Shown.

CUSTOMER PARTS LIST

6 x 14 Finish – 4 Blades, Imperial

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
*	1	20414	6 x 14 Imperial Trowel Blade	4		07/10/07
	2	10401	HHCS 5/16-18 x 1-1/2"LG, Grade 5	8		07/10/07
	3	10402	Lock Washer ø5/16"	8		07/10/07

6 x 14 Finish – 4 Blades, Metric

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
*	1	20457	6 x 14 Metric Trowel Blade	4		07/10/07
	2	10453	HHCS M8-1.25 x 50mm	8		07/10/07
	3	11614	Lock Washer 8mm	8		07/10/07

8 x 18 Combo – 4 Blades

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
*	1	20408	8 x 18 Imperial Combo Blade	4		07/10/07
	2	10401	HHCS 5/16-18 x 1-1/2"LG, Grade 5	8		07/10/07
	3	10402	Lock Washer ø5/16"	8		07/10/07

Items marked with * are recommended spare parts

RETARDANT SPRAY SYSTEM

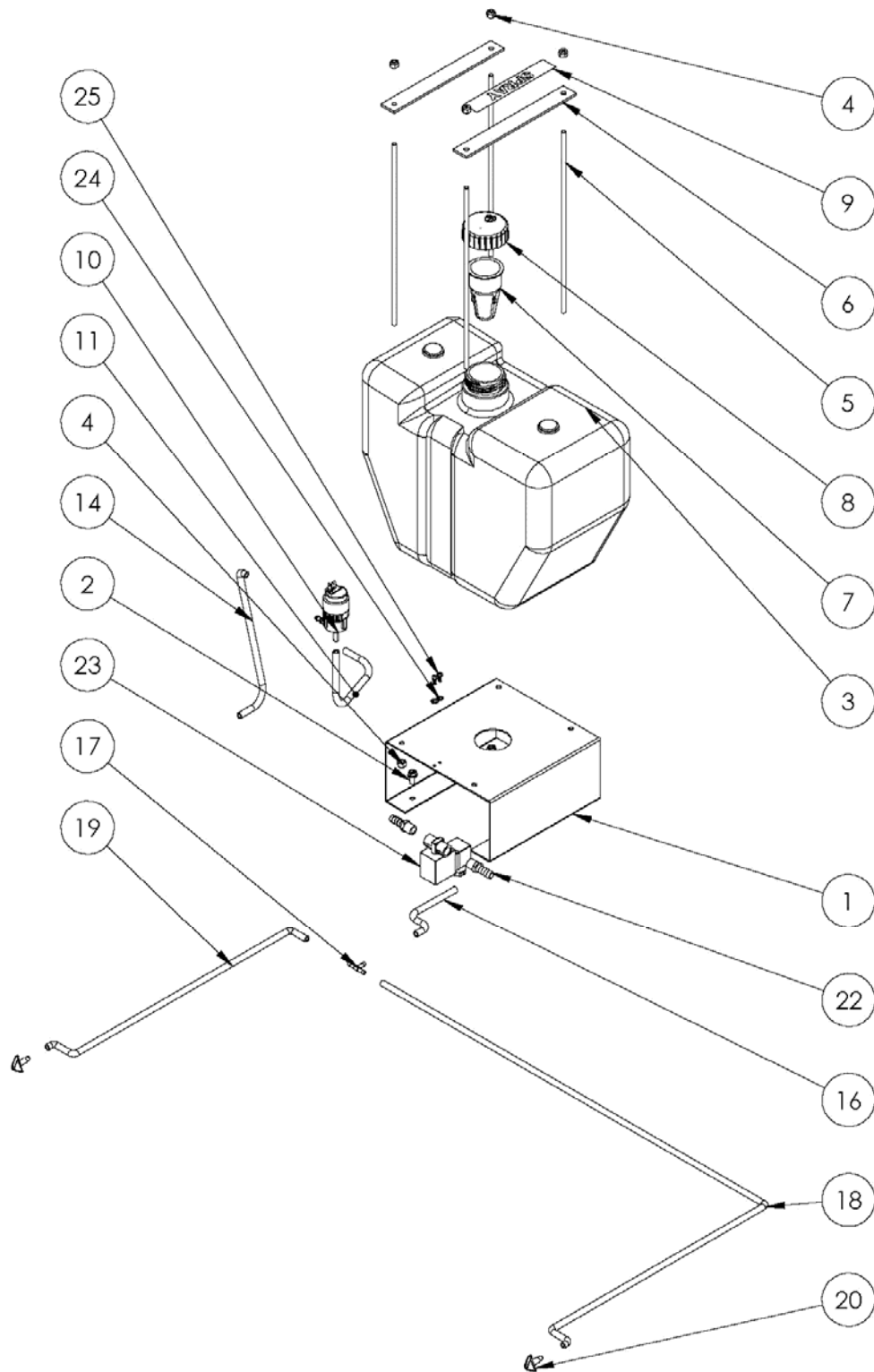


Figure 11 – TS78 Water Spray System

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

CUSTOMER PARTS LIST

Assembly: RETARDANT SPRAY SYSTEM

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	1	18131	Support	1		
	2	14596	HHCS 1/4 - 20 x 5" LG	4		
	4	30141	Locknut 1/4 - 20	8		
	5	11829	1/4 - 20 Threaded Rod	4		
	6	18132	Hold Down Bar	2		
	9	14481	Label	1		
	20		Nozzles	1		
	21	---	3/16" Cable Tie	1		
	22	14696	3/16" Tube	2		
	23	14234	12V Valve	1		
	24	10703	Lockwasher	2		
	25	11035	PHMS, M4-0.7 x 10mm LG	2		

Assembly #18133: WATER SPRAY SYSTEM

*	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	1	18136	Water Tank	1		
	10	18138	12V Pump	1		
	7	18139	Strainer	1		
	8	18140	Cap	1		
	11	18141	3/16" Hose	10.5"		
	14	18141	3/16" Hose	26"		
	16	18141	3/16" Hose	8.5"		
	17	18143	3/16" Tee	1		
	18	18141	3/16" Hose	26"		

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TRANSPORTER ASSEMBLY - 22593

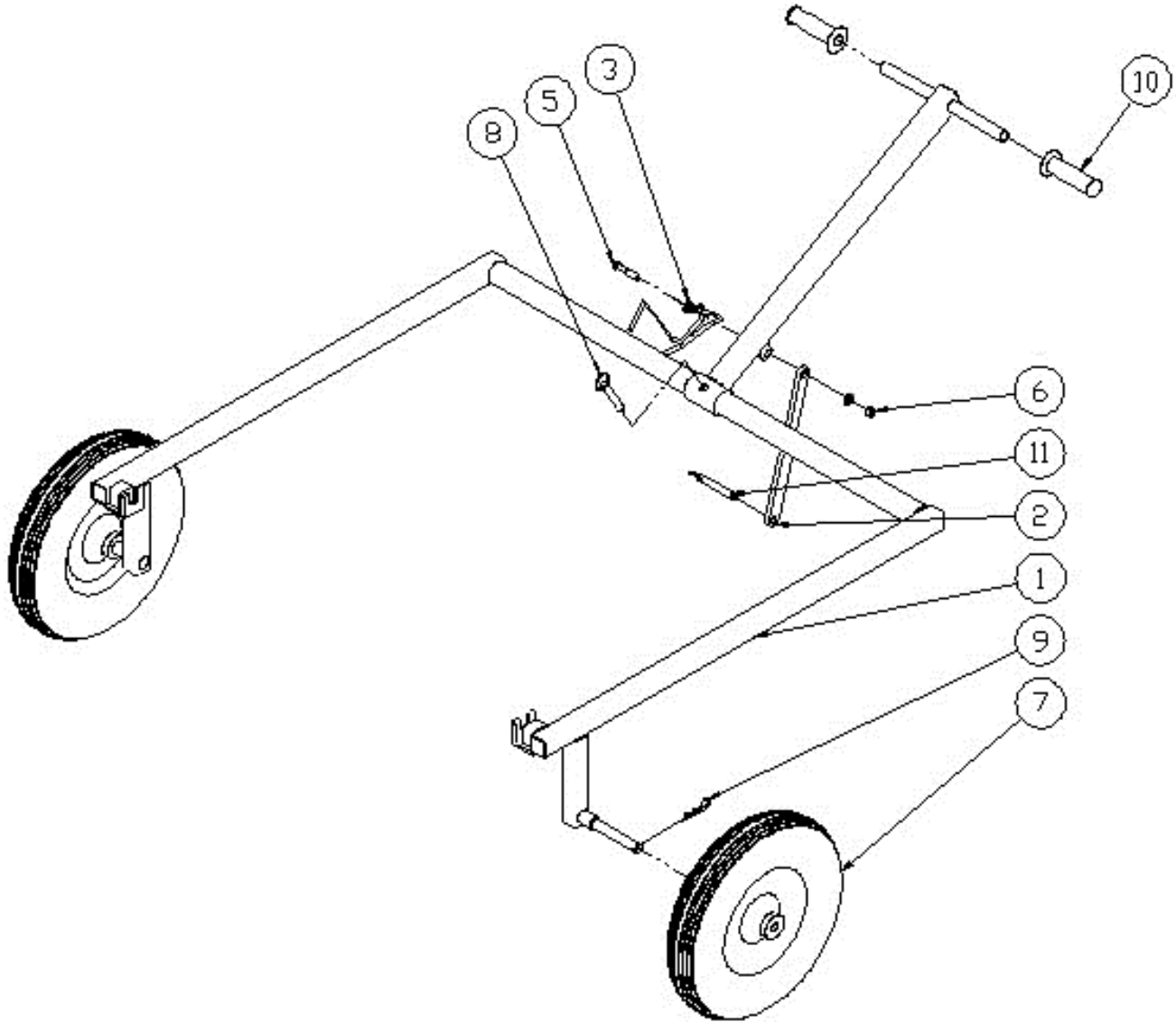


Figure 12 – TS78 Transporter

Item #	Description	Item #	Description
1	Frame Assembly	7	Wheel
2	Linkage Arm	8	Hitch Pin Lg
3	Chain	9	Cotter Pin
4	Flat Washer	10	Handle Grips
5	Hex Bolt	11	Hitch Pin Sm
6	Lock Nut		

TS78 RIDE-ON TROWEL INSTRUCTION MANUAL

CUSTOMER PARTS LIST

Assembly # 22593
TRANSPORTER

	Item #	Part #	Description	Qty	Eff. S/N	Eff. Date
	1	22594	Transporter Frame Assembly	1		07/10/07
	2	13364	Transporter Linkage Arm	1		07/10/07
	3	12860	Chain Link With 3/8" Washer	1		07/10/07
	5	12859	HHCS 3/8-16 UNC x 2"LG.	1		07/10/07
	6	10317	Nylon Locknut, 3/8-16UNC	1		07/10/07
	7	13198	Wheel 16"Dia. x 4" Hub	2		07/10/07
	8	12487	Large Hitch Pin 3-1/2"LG.	1		07/10/07
	9	50265	Cotter Pin, 1/8" Dia.	2		07/10/07
	10	10509	Handle Grip	2		07/10/07
	11	12488	Hitch Pin Sm 2 1/2"	1		07/10/07