

# Ride-On MAGNUM Spreader Sprayer

## Parts Manual



### Model # MAGNUM A1A/B1B

#### Proprietary

This document contains data that is proprietary to and controlled by Perma Green Supreme, Inc. The manual may be downloaded as a PDF file and printed for use with Perma Green equipment. Perma Green Supreme, Inc. reserves the right to control manual content. Therefore, this manual may not be altered in any way without the written permission of Perma Green Supreme, Inc.

Perma Green Supreme, Inc.  
Dec/05  
Basic Issue

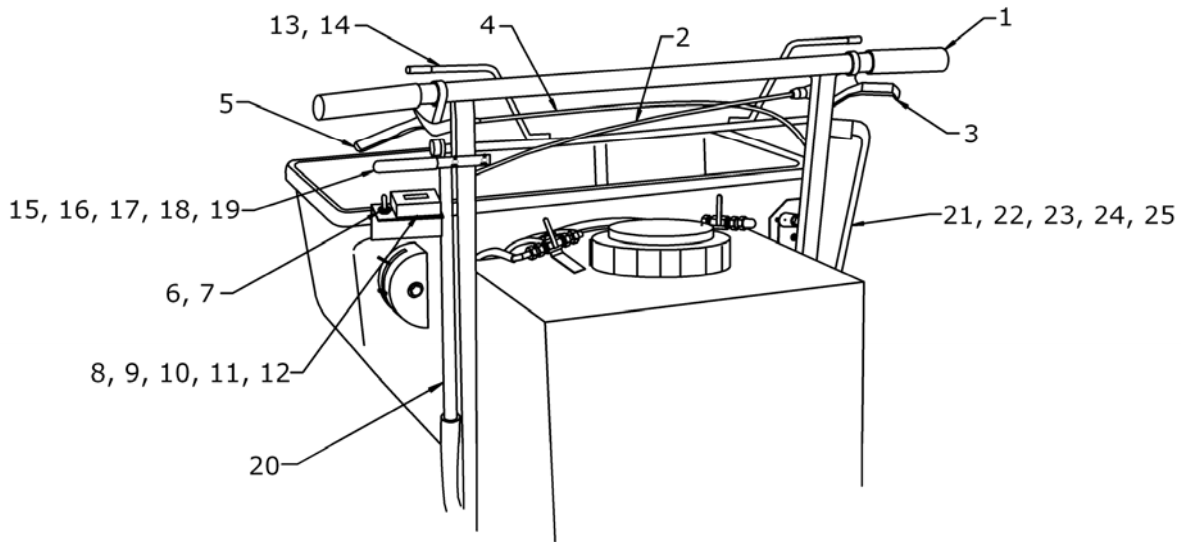
**PAGE INTENTIONALLY LEFT BLANK**

## LIST OF ILLUSTRATIONS & TABLES

<u>Figure</u>	<u>Title</u>	<u>Page</u>
Figure 1.	Handlebar Control Group.....	4
Figure 2.	Hopper Inside & Rate Control Group.....	5
Figure 3.	Hopper Open/Close Group A1A.....	6
Figure 4.	Hopper Open/Close Group B1B.....	7
Figure 5.	Fertilizer Deflector & Remote Control Group .....	8
Figure 6.	Spray Tank Plumbing Group & Schematic .....	9-11
Figure 7.	Spray Pump Plumbing Group.....	12
Figure 8.	Spray Nozzle Group .....	13
Figure 9.	Power Transmission, Pump & Gearbox Belt Group A1A.....	14
Figure 10.	Power Transmission, Pump & Gearbox Belt Group B1B.....	15
Figure 11.	Power Transmission, Drive Belt Group.....	16
Figure 12.	Power Transmission, Jackshaft Group.....	17
Figure 13.	Power Transmission, Transaxle Group .....	18
Figure 14.	Power Transmission, Engine Group .....	19-20
Figure 15.	Sulky, Brake System Group A1A.....	21
Figure 16.	Sulky, Brake System Group B1B.....	22
Figure 17.	Sulky, Articulating Joint Group.....	23
Figure 18.	Body Panel Group.....	24
Figure 19.	Electrical System & Schematic Group .....	25



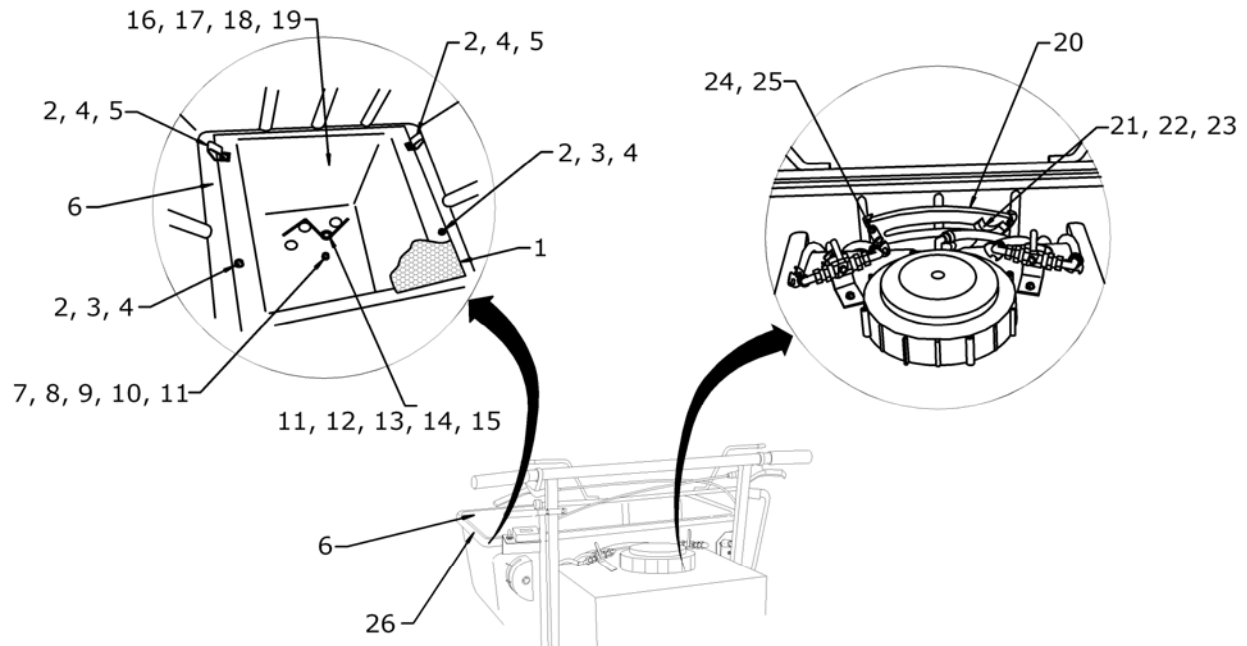
## Handlebar Control Group



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	R654190	480328	Handlebar Grip	1 pair
2	P654151	-	Throttle Cable	1
3	P654136	-	Throttle Lever	1
4	P654150	-	Sprayer Operating Cable	1
5	P654137	-	Sprayer Operating Lever	1
6	U422927	082489	Kill Switch with locknut and retaining nut	1
7	300125	-	Switch boot	1
8	R654555	480285	Hour Meter	1
9	P650110	-	Screw	2
10	P650115	-	Lock Nut	2
11	P300200	-	Neutral Safety Wirings Harness (not shown)	1
12	R216501	-	Neutral Safety Switch (not shown)	1
13	P100263	-	Hopper Open/Close Lever Assembly	1
14	U654191	082529	Grip	2
15	P100295	-	Handle Release Lever	1
16	R654199	480327	Grip	1
17	R651750	480434	Clevis Pin	2
18	R651544	480429	Nylon Washer	2
19	R651601	480246	Cotter Pin	2
20	P100283.1	-	Handle Release latch Assembly	1
21	P100405	-	Hopper Open/Close Control Rod	1
22	P645207	-	E clip	1
23	R651224	-	Nut	1
24	R651482	480443	Lock Washer	1
25	R651224	480441	Locknut	1



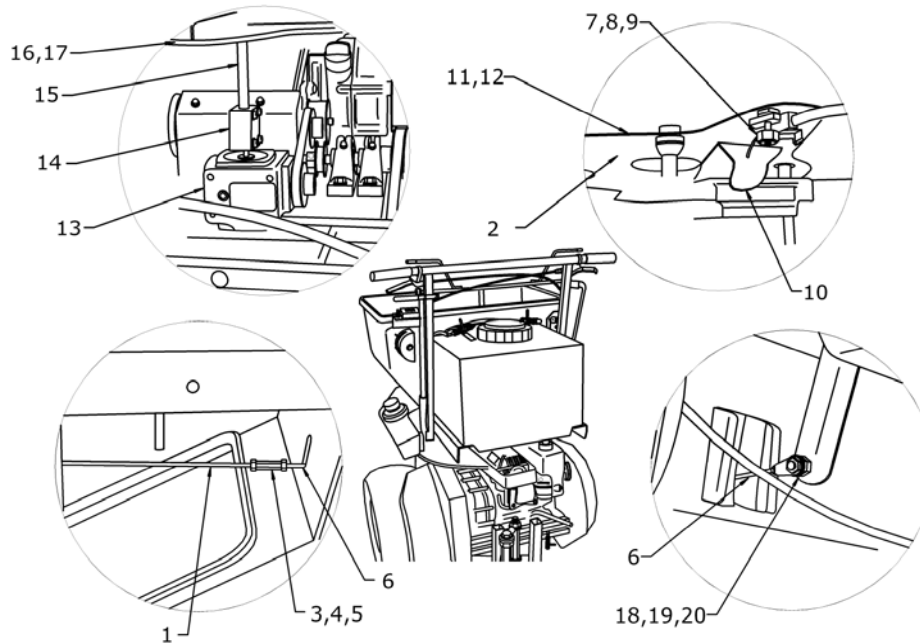
## Hopper Inside & Rate Control Group



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	P100265	-	Screen	1
2	R650620	480437	Screw, ¼-20 x 3/4	4
3	R651420	480345	Washer, ¼ flat	2
4	R651216	013291	Lock Nut, ¼-20	5
5	U422916	060046	Clip	2
6	P422917	-	Hopper	1
7	650424	-	Screw, ¼-20 x 1"	1
8	P651973	-	Flange bearing	1
9	R651216	013291	Lock Nut, ¼-20	1
10	R651420	480345	Washer, ¼ flat	3
11	U422896	-	Washer, 3/8 Nylon	5
12	R651590	480377	Cotter Pin	
13	P100105	-	Agitator Arm	1
14	P100100	-	Agitator Arm & Shaft	
20	P100395	-	Rate Control Plate	1
21	P205015	-	Knob, Rate adjustment	1
22	R422706	480395	Washer, ¼ Nylon	2
24	U650102	-	Screw, 10-24 x 5/8"	2
25	R651206	070027	Locknut, 10-24	2
26	P432301	-	Hopper Cover, Magnum	1



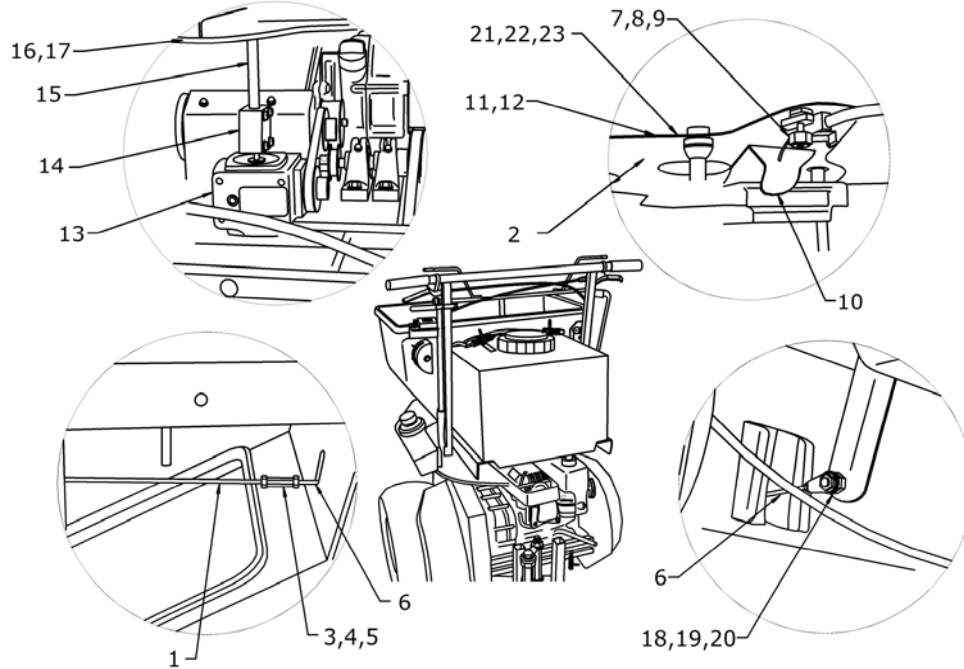
## Hopper Open/Close Group Model A1A



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	P100415	-	Shut-off Plate Rod	1
2	P100445	-	Shut-off Plate Assembly	1
3	R651350	-	Adjusting Turnbuckle	1
4	651220	-	Nut	2
5	R651480	060058	Lock Washer	2
6	U422304	082466	Hanger Bolt	1
7	P100443	020511	Shut-off Plate Clamp	1
8	P645204	-	Locknut, 10-32	2
9	P654153	-	Remote Lever Cable, Third Hole	1
10	-	-	Third Hole Slide Plate	
11	P100445	704955	Shut-off Plate Clip	3
12	P422920	-	Screw, #8 sheet metal x 3/8	3
13	P422933	-	Gearbox, Magnum	1
14	P100430	-	Shaft Assembly Block	1
15	P100435	-	Spinner Shaft	1
16	U422925	030317	Spinner Platter	1
17	C432135	-	Pin, Spinner Platter	1
18	R650620	480437	Bolt, 1/4-20 x 3/4"	1
19	R651216	013291	Locknut, 1/4-20	1
20	R651544	480429	Washer, 1/4 Nylon	3



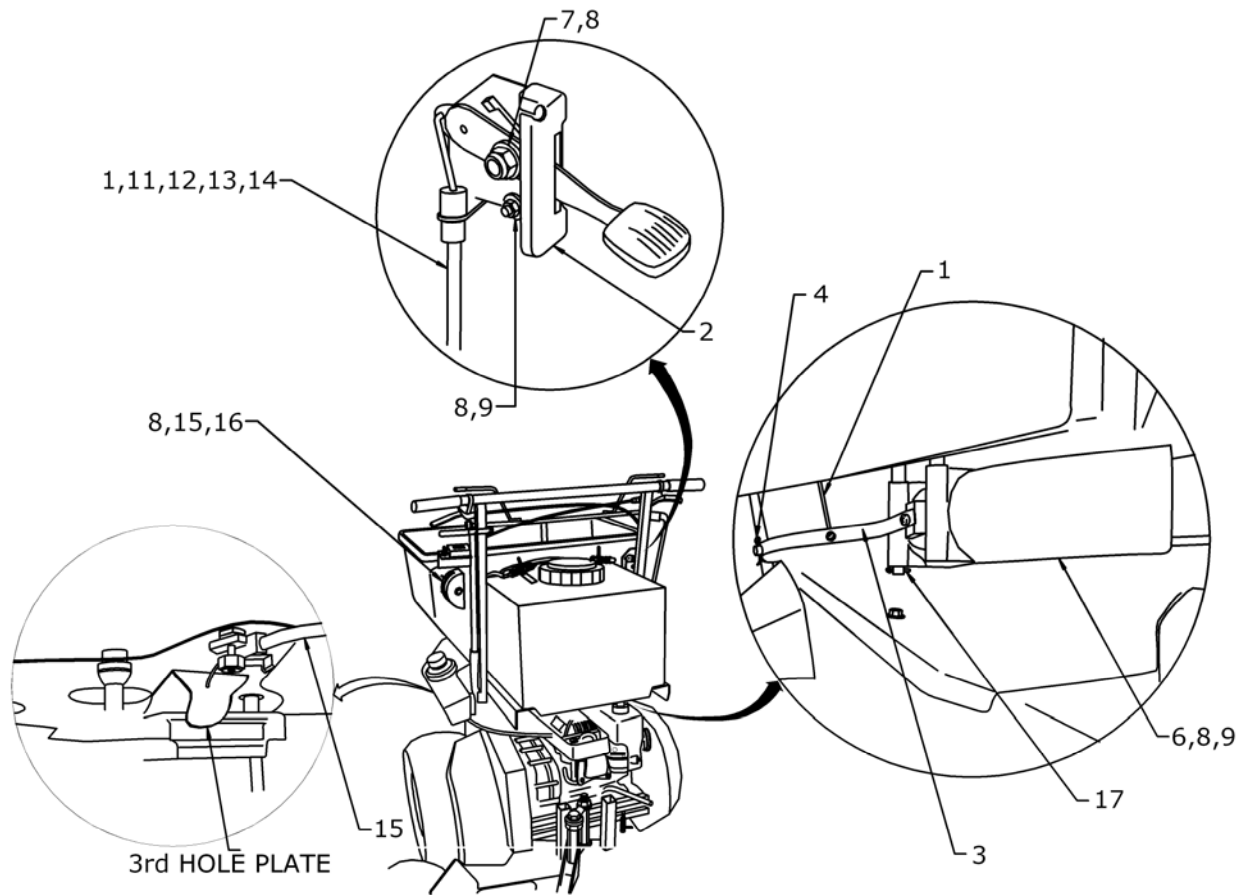
## Hopper Open/Close Group Model B1B



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	P100415	-	Shut-off Plate Rod	1
2	P100445	-	Shut-off Plate Assembly	1
3	R651350	-	Adjusting Turnbuckle	1
4	651220	-	Nut	2
5	R651480	060058	Lock Washer	2
6	U422304	082466	Hanger Bolt	1
7	P100443	020511	Shut-off Plate Clamp	1
8	P645204	-	Locknut, 10-32	2
9	P654153	-	Remote Lever Cable, Third Hole	1
10	-	-	Third Hole Slide Plate	
11	P100445	704955	Shut-off Plate Clip	1
12	P422920	-	Screw, #8 sheet metal x 3/8	1
13	P422933	-	Gearbox, Magnum	1
14	P100430	-	Shaft Assembly Block	1
15	P100435	-	Spinner Shaft	1
16	U422925	030317	Spinner Platter	1
17	C432135	-	Pin, Spinner Platter	1
18	R650620	480437	Bolt, 1/4-20 x 3/4"	1
19	R651216	013291	Locknut, 1/4-20	1
20	R651544	480429	Washer, 1/4 Nylon	3
21			Shut-off plate compression screw	2
22			Shut-off plate rubber washer	2
23			Shut-off plate nut	2

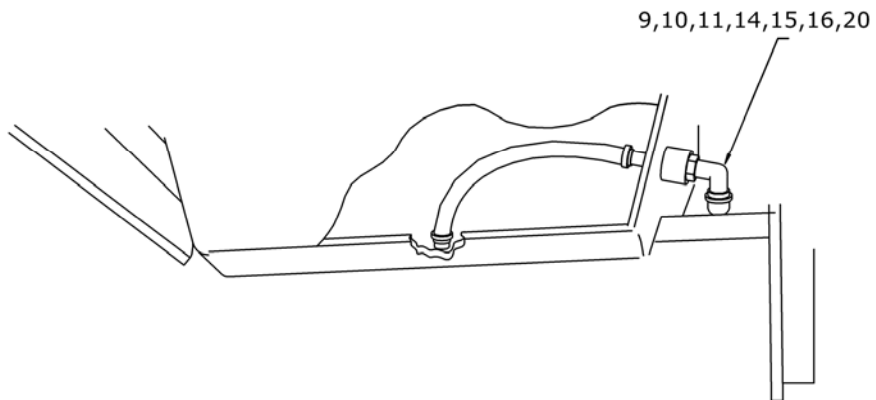
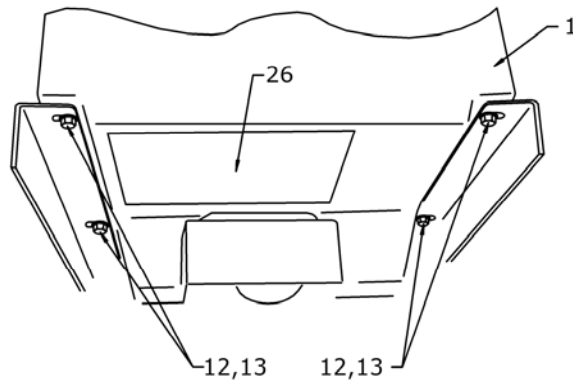
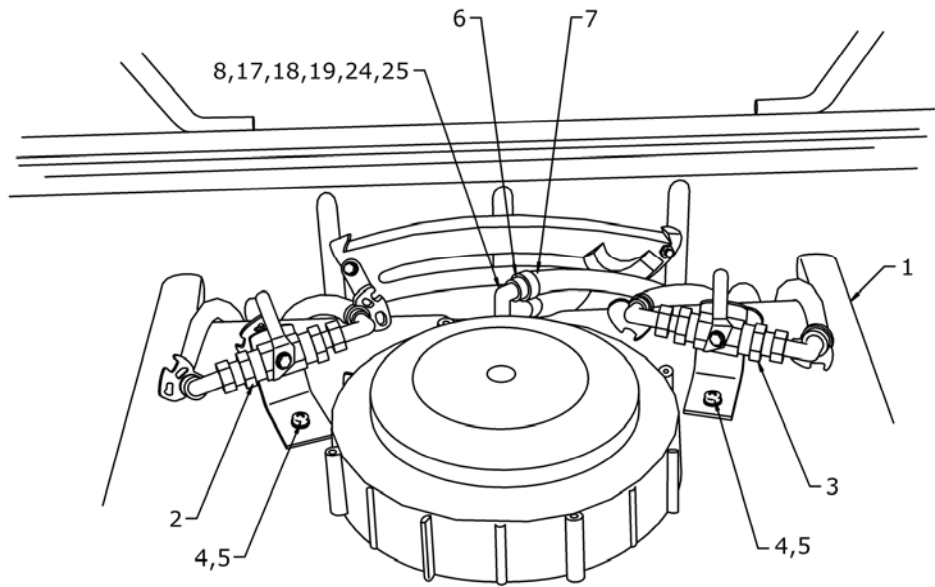


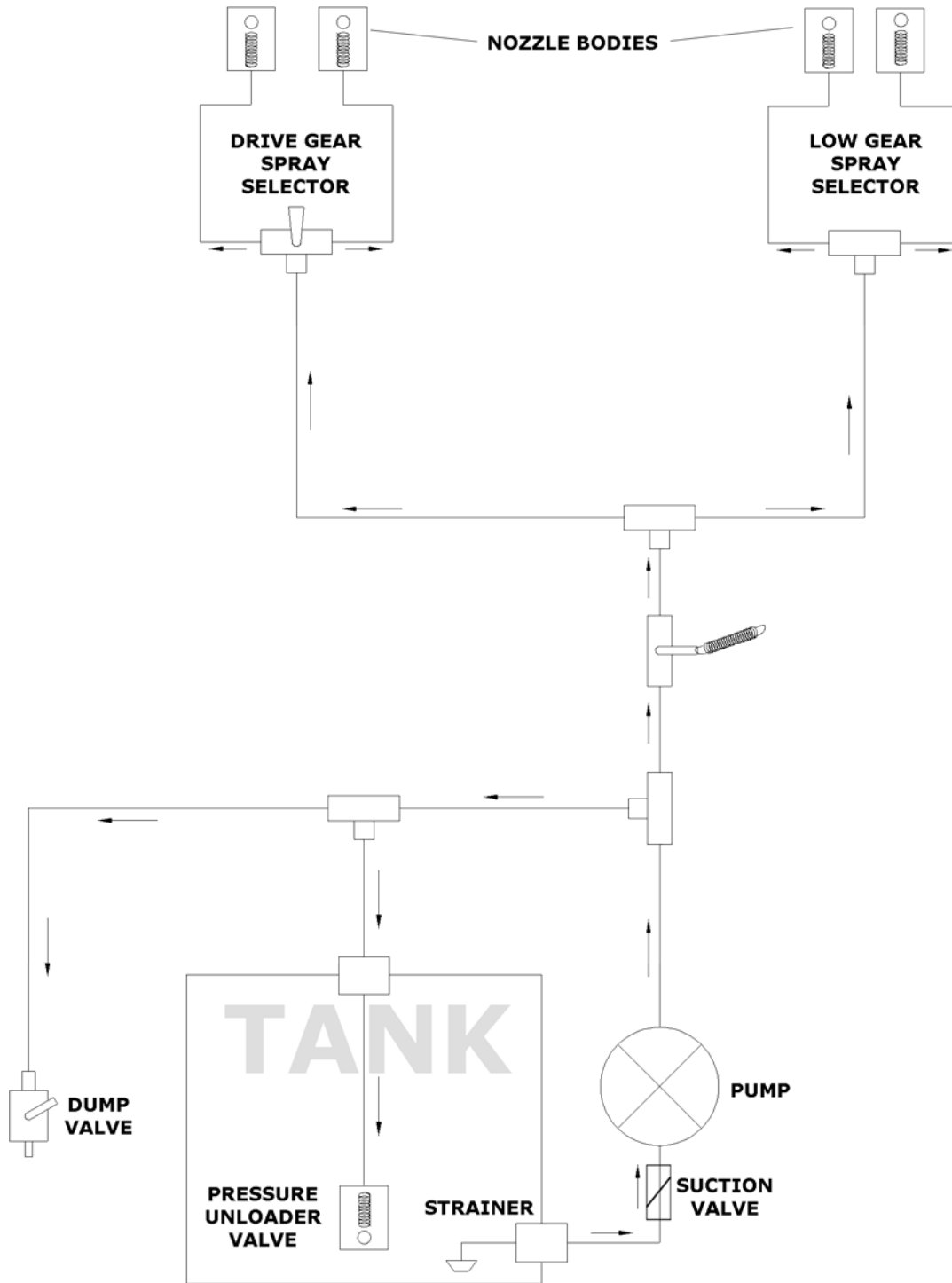
## Fertilizer Deflector & Remote Control Group



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	-	-	Control Cable	1
2	P654152	-	Deflector Remote Control	1
3	P100235	-	Deflector Link	1
4	R651601	480246	Cotter Pin	1
6	U422931	082494	Deflector	1
7	650424	-	Screw	1
8	R651216	013291	Locknut, ¼-20	3
9	R650420	480446	Screw	1
11	R651206	070027	Lock Nut	1
12	R651450	480263	Fender washer	1
13	R654138	480374	Conduit clip	1
14	R650400	480448	Screw, 10-24 x ¾"	1
15	P654153	-	3 <sup>rd</sup> Hole Remote Control	1
16	R650428	-	Screw, ¼-20 x 1-1/2"	1
17	R651590	480377	Cotter Pin	1









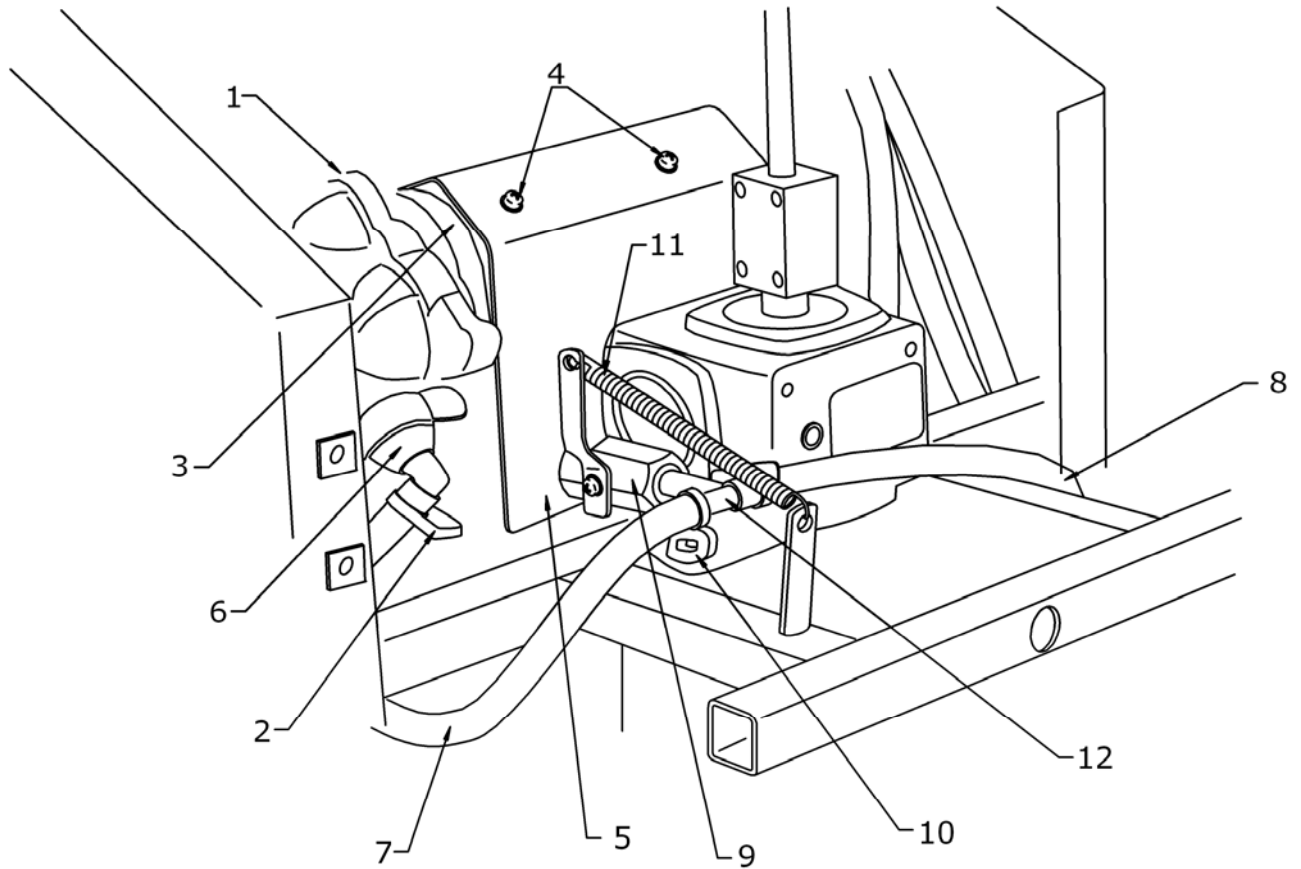
## Spray Tank Plumbing Group (continued)

Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	P204945	-	Spray Tank	1
2	-	-	Spray Control Valve Assembly, High Speed	1
3	-	-	Spray Control Valve Assembly, Low Speed	1
4	P645103	-	Screw *	4
6	R481246	480354	Hose Clamp, small	1
7	-	-	Bypass Line	1
8	R454022	480348	Bypass Elbow	1
9	R481243	480356	Hose Clamp, large	1
10	-	-	Outlet Line	1
11	R454023	480350	Outlet Elbow	2
12	R650420	480445	Bolt, ¼-20 x ¾"	4
13	R651480	60058	Lock Washer	4
14	R481243	480356	Hose Clamp, large	1
15	-	-	Outlet Hose	1
16	U362202	-	Suction Strainer	1
17	R481246	480354	Hose Clamp, Small	2
18	-	-	Pressure Relief Valve Hose	1
19	R466439	480361	Pressure Relief Valve	1
20	R452222	480349	Straight Fitting	1
*21	P100606	-	Valve Cover, Left *	1
*23	P100607	-	Valve Cover, Right *	1
24	R452220	480347	Top Pressure Relief Valve Fitting	1
25	R454002	480346	Bottom Pressure Relief Valve Fitting	1
26	P204948	-	Heat Shield	1

\* Valve covers not illustrated for clarity



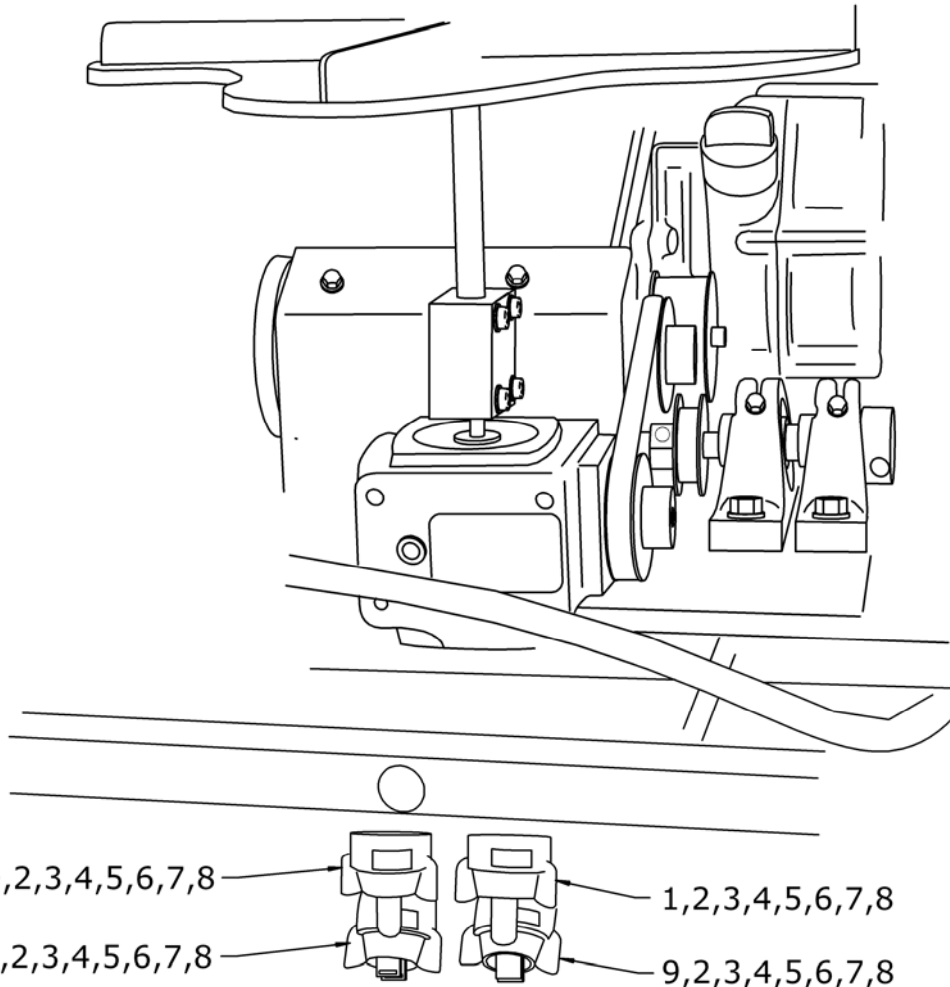
## Spray Pump Plumbing Group



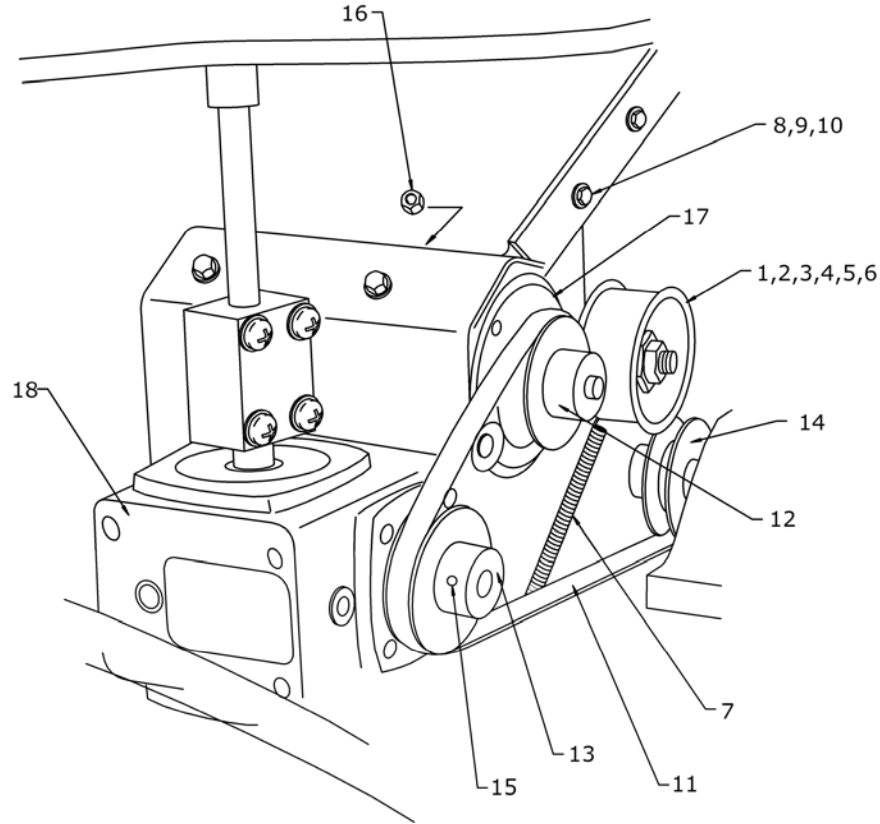
Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	-	-	Outlet Hose	
2	-	-	Inlet Hose	
3	P442068	-	Pump	1
4	P645104	-	Screw, #12 Self Tapping x 1/2"	2
5	-	-	Mounting Plate, Pump	
6	P442070	-	Pump Hose Fitting	2
7	-	-	Low gear spray control valve supply hose	1
8	-	-	High gear spray control valve supply hose	1
9	P205010	-	Pump Shutoff Valve	1
10	R481246	R481246	Hose Clamp, small	2
11	R654282	-	Lever Return Spring	1
12	P454001	-	T-Fitting	1



## Spray Nozzle Group



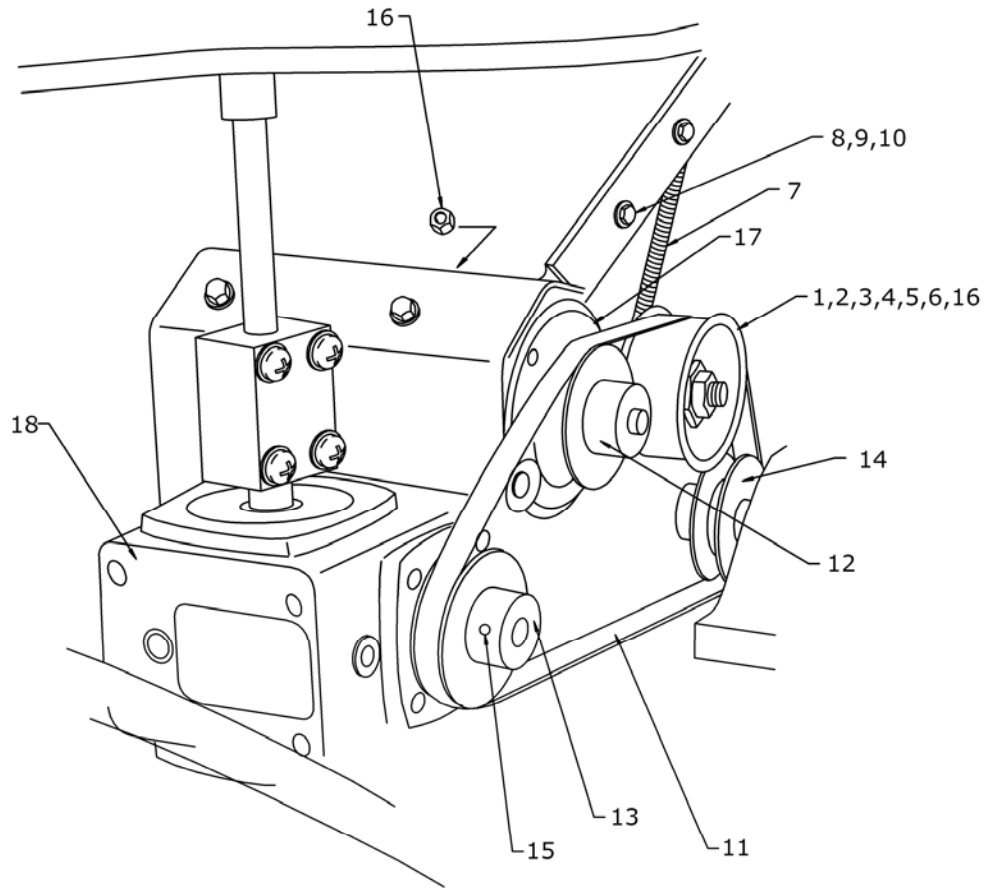
Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	P205005	-	Nozzle, High Gear Broadcast	1
2	R466625	480211	Nozzle Cap	4
3	R466620	480359	Gasket	4
4	R464724	005173	Strainer	4
5	R466222	010923	Nozzle Body	4
6	R454002	480346	Nozzle body hose fitting	4
7	R466444	480357	8 PSI Pressure Cap (Incl. w/ Nozzle body)	
8	R466448	480358	Diaphragm ( Included with Nozzle Body)	
9	P205000	-	Nozzle, High Gear Trim	1
10	P205006	-	Nozzle, Low Gear Broadcast	1
11	P205001	-	Nozzle, Low Gear Trim	1



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	P653608	-	Tensioning Pulley	1
2	P653609	-	Pulley Bushing	1
3	P650102	-	Bolt, 3/8-16 x 2"	1
4	R651483	480442	Lock Washer, 3/8"	1
5	P645203	-	Lock Nut, 3/8-16	1
6	P100115	-	Tensioning Arm	1
7	R654504	480334	Tensioning Spring	1
8	R422302	480373	Shoulder Bolt, 1/4 x 3/8"	1
9	R651544	480429	Nylon Washer, 1/4"	1
10	R651206	070027	Lock Nut	1
11	P653793	-	Pump and Spinner Gearbox Drive Belt	1
12	P653606	-	Pump Pulley	1
13	P653605	-	Spinner Gearbox Pulley	1
14	P653605	-	Jackshaft Pulley	1
15	R650221	-	Cone Point Set Screw, 1/4-20 x 1/2	1
16	R651216	013291	Lock Nut, 1/4-20	4
17	P442068	-	Pump	1
18	P422934	-	Gearbox	1



## Power Transmission, Pump & Gearbox Belt Group B1B

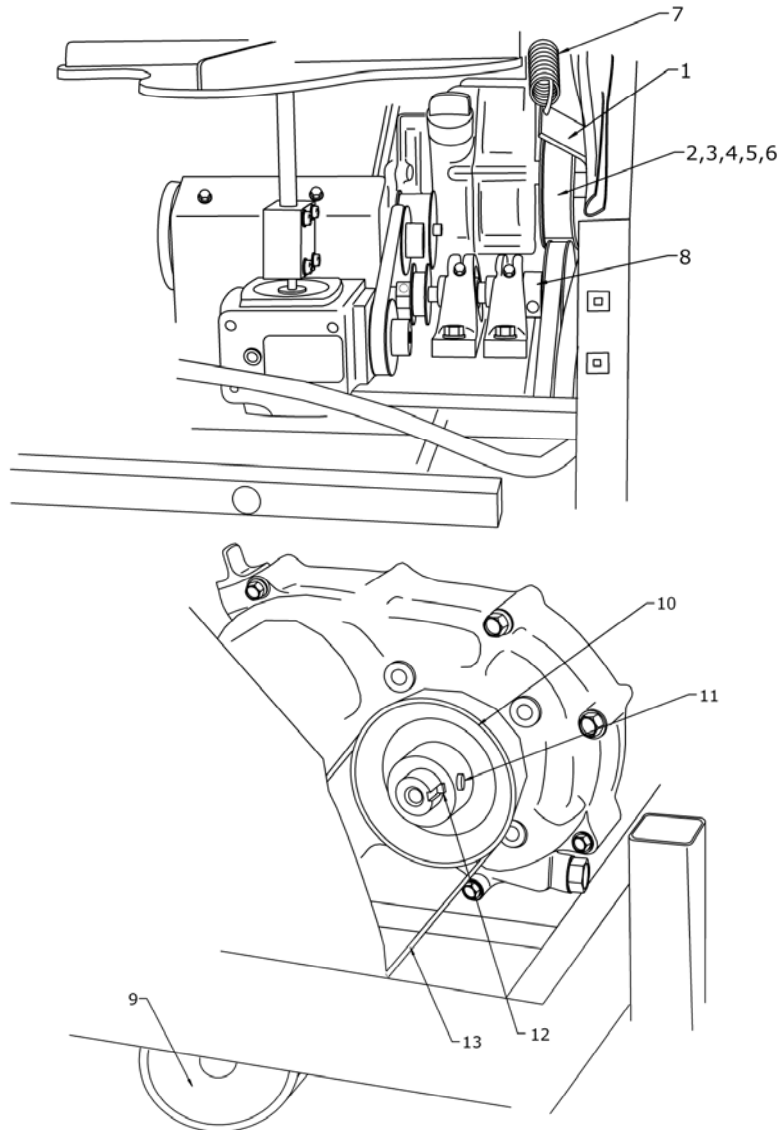


Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	P653608	-	Tensioning Pulley	1
2	P653609	-	Pulley Bushing	1
3	P650102	-	Bolt, 3/8-16 x 2"	1
4	R651483	480442	Lock Washer, 3/8"	1
5	P645203	-	Lock Nut, 3/8-16	1
6	P100115	-	Tensioning Arm	1
7	R654504	480334	Tensioning Spring	1
8	-	-	Bolt, 1/4-20 x	1
9	-	-	Bushing	1
10	R651206	070027	Lock Nut	1
11	P653793	-	Pump and Spinner Gearbox Drive Belt	1
12	P653606	-	Pump Pulley	1
13	P653605	-	Spinner Gearbox Pulley	1
14	P653605	-	Jackshaft Pulley	1
15	R650221	-	Cone Point Set Screw, 1/4-20 x 1/2	1
16	R651216	013291	Lock Nut, 1/4-20	4
17	P442067	-	Pump	1
18	P422934	-	Gearbox	1

PARTS LIST Refer to the cover page for restrictions regarding reproduction or disclosure of this material.



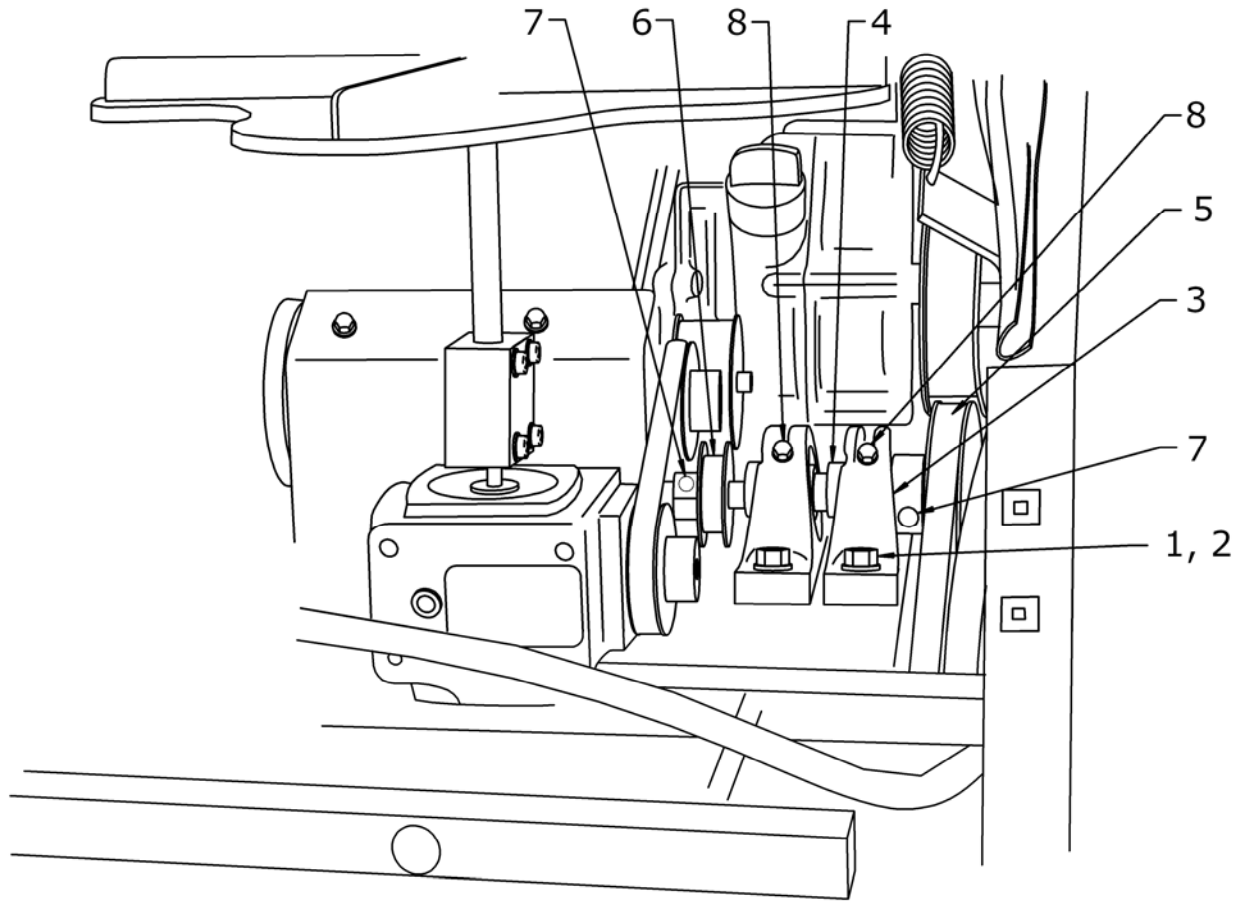
## Power Transmission, Drive Belt Group



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	R653559	480204	Tensioning Pulley	1
2	R653558	480203	Pulley Bushing	1
3	R650738	008495	Bolt, 3/8-16 x 1- 3/4"	1
4	R651483	480442	Lock washer, 3/8"	1
5	P645203	-	Lock Nut, 3/8-16	1
6	P100110	-	Tensioning Arm	1
7	R654504	480334	Tensioning Spring	1
8	P653602	-	Jackshaft Pulley	1
9	P653601	-	Transaxle Pulley	1
10	P653600	-	Engine Gearbox Output Pulley	1
11	R650222		Set Screw, 5/16-18 x 3/4"	1
12	P651645		Key, Step 1/4 x 3/16 x 1"	1
13	P653792	-	Drive Belt	

PARTS LIST Refer to the cover page for restrictions regarding reproduction or disclosure of this material.

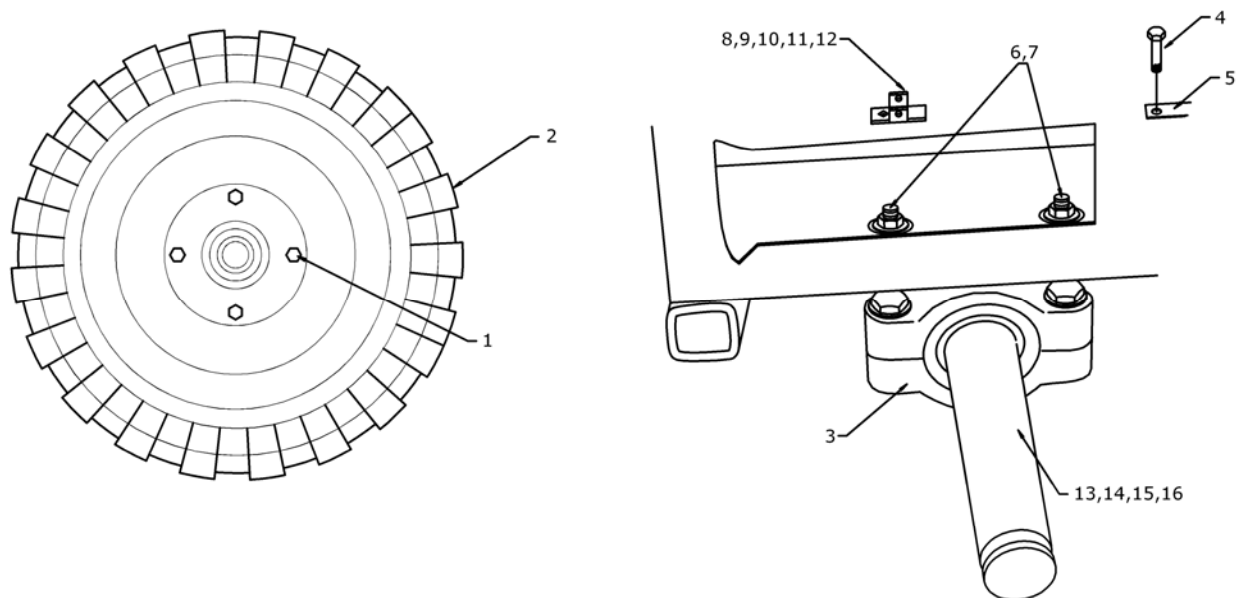




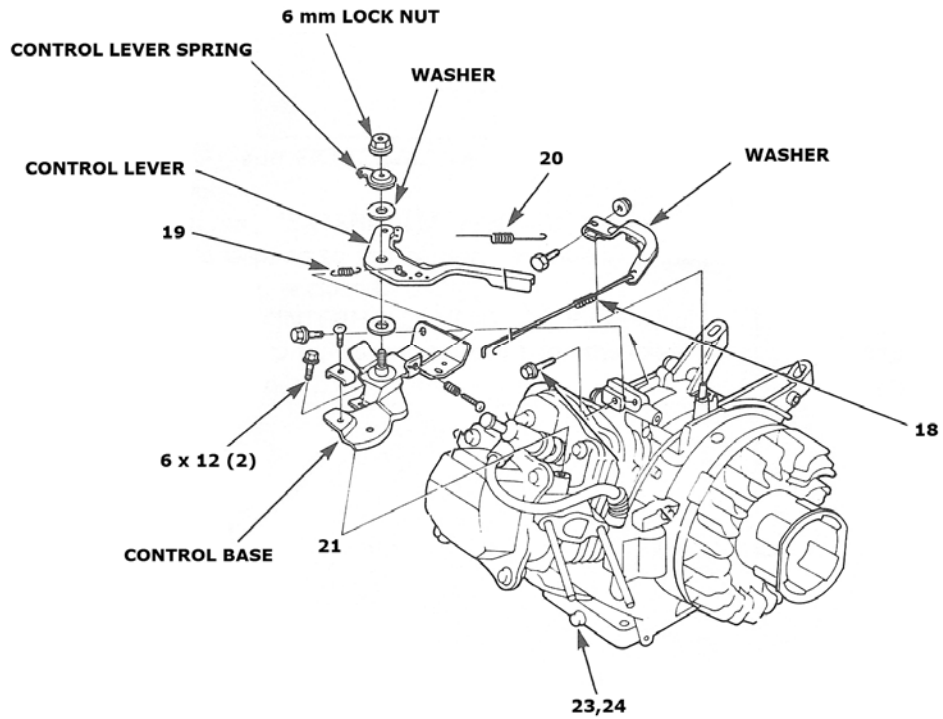
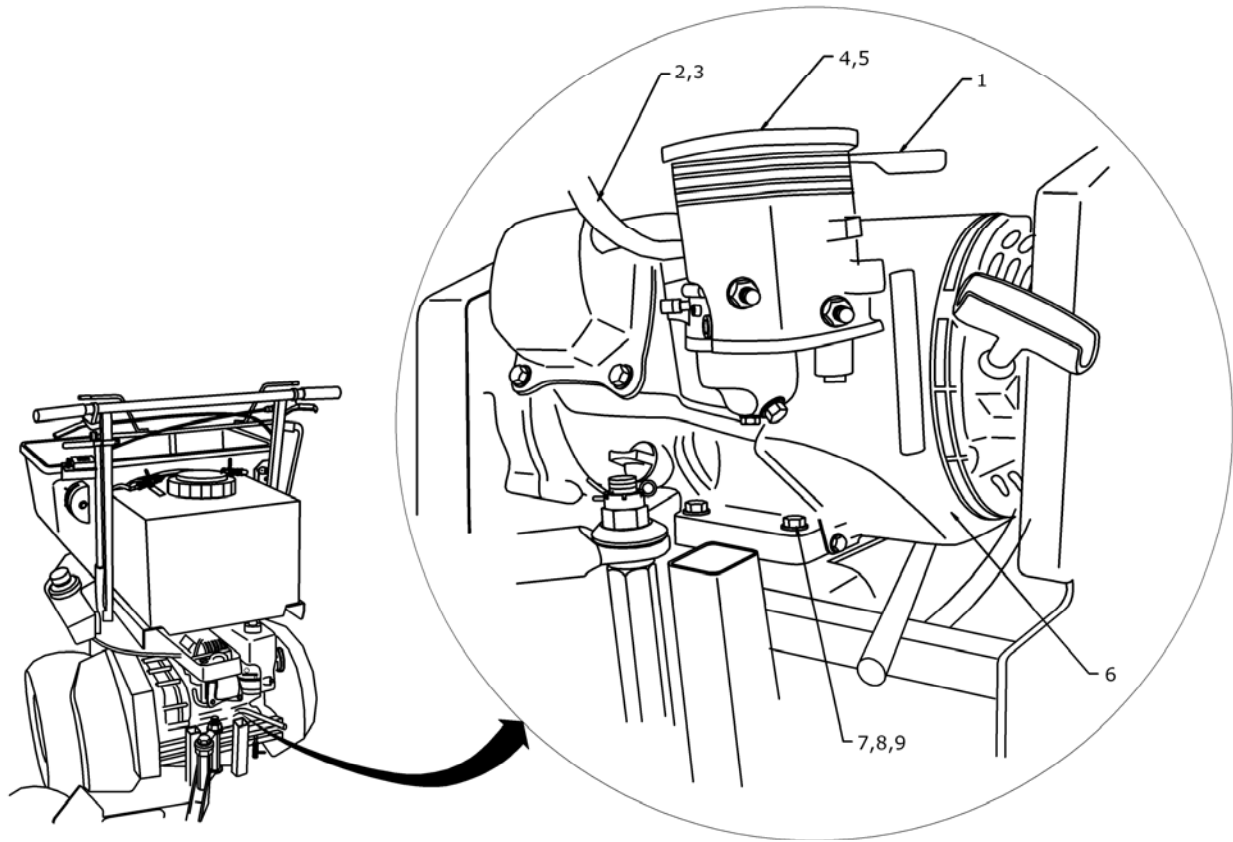
Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	R650718	011437	Bolt (two each pillow block)	4
2	R651483	480442	Lock washer (two each pillow block)	4
3	P651962*	-	Pillow Block	2
4	P100270*	-	Jackshaft	1
5	P653602*	-	Jackshaft Drive Pulley	1
6	P653605*	-	Pump and Spinner Gearbox Drive Pulley	1
7	U650103*	-	Setscrew	2
8	-*	-	Zerk Fitting	2
	P100272	-	Jackshaft Assembly (includes all * Above)	1



## Power Transmission, Transaxle Group



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	R651404	082475	Lug Nut (four each front wheel)	8
2	P654825	-	Tire and Wheel, Front	2
3	P210100	-	Transaxle (with hubs)	1
4	R650100	480440	Bolt, self tapping, 5/16 x 5/8"	1
5	P100180	-	Torque Strap	1
6	U650691	-	Bolt, 5/16-18 x 3"	4
7	R651214	480441	Lock nut, 5/16-18	4
8	P100175	-	Shift Lever Bracket	1
9	P645201	-	Bolt, 1/4-28 x 3/4" grade 8	1
10	P650102	-	Bolt, 3/8-16 x 2"	1
11	P645203	-	Lock Nut, 3/8-16	1
12	P100425	-	Shift Rod	1
13	P654731	-	Hub spacer (1 per axle)	2
14	P651512	-	Axle washer (2 per axle)	4
15	P651705	-	E clip retainer (1 per axle)	2
16	P654730	-	Hub (1 per axle)	2



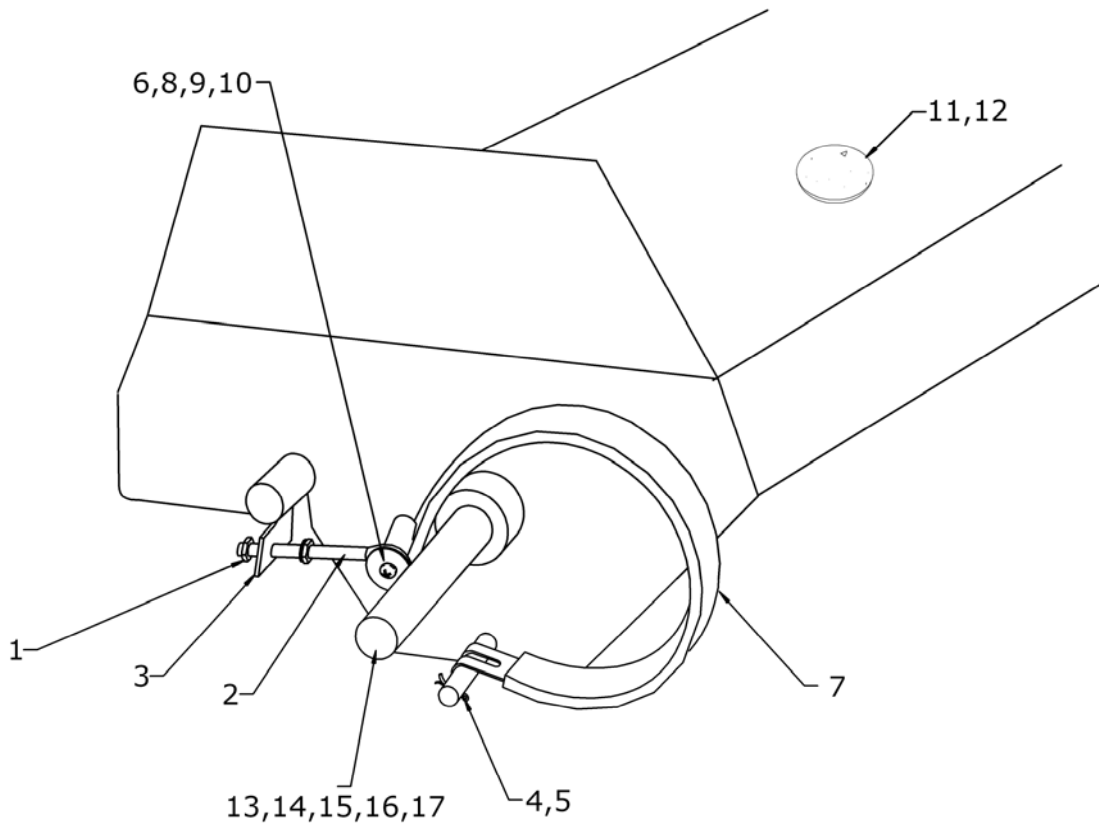


## Power Transmission, Engine Group (continued)

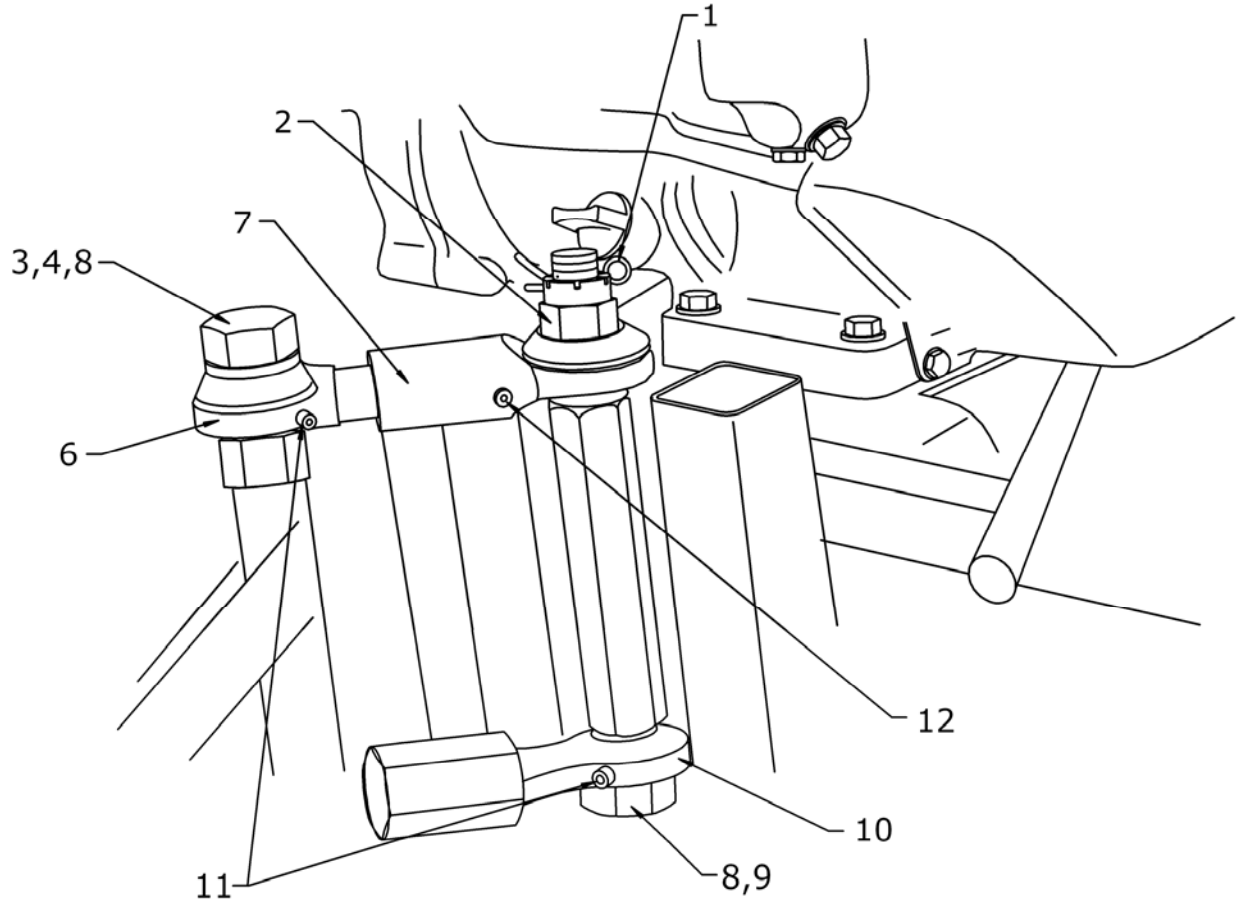
Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	R654282	480314	Auxiliary Throttle Return Spring	1
2	P454000	-	Fuel hose coupler	1
3	P449212	-	Fuel Line	1
4	P449202	-	Air Cleaner Cover	1
5	P449203	-	Air Cleaner	1
6	P449200.1	-	Engine and Gearbox	1
7	R650660	-	Bolt, 5/16-18 x 1-1/4"	4
8	651422	-	Washer, 5/16	4
9	R651482	480443	Lock washer	4
10	P449241	-	Air Cleaner Base	1
11	R481246	480354	Hose Clamp	1
12	P449222	-	Starter	1
13	P449213	-	Gas tank fitting with filter and valve	1
14	P449210	-	Gas Tank	1
15	P449207	-	Cap, Muffler	1
16	P100172	-	Muffler Guard	1
17	P449211	-	Gas Cap	1
18	P449219	-	Throttle Return Spring	1
19	P449227	-	Cable Return Spring	
20	P449218	-	Governor Spring	
21	P449208	-	Spark Plug	
22	P449215	-	Carburetor (not shown)	
23	P449242	-	Drain Plug	
24	P449243	-	Drain Plug Washer	



## Sulky, Brake System Group



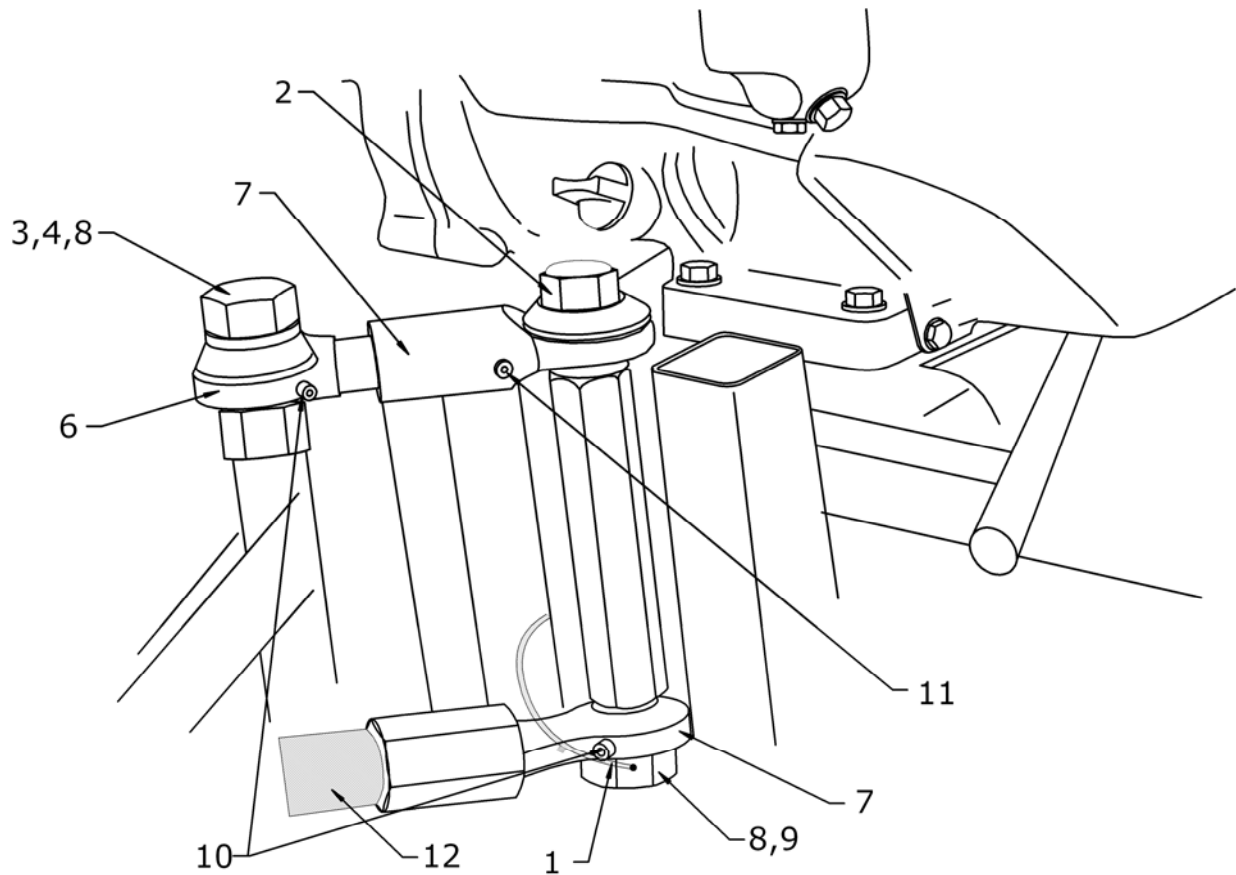
Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	R651216	013291	Locknut, ¼-20 (2 per brake shaft)	4
2	U422304	082466	Brake Adjusting Bolt	2
3	P100400	-	Brake Rod	1
4	R651590	-	Cotter Pin	2
5	-	-	Brake Mounting Post	
6	R651450	480263	Washer (2 per side)	4
7	R422055	480242	Brake Band	2
8	R651740	480244	Clevis Pin	2
9	R651601	480246	Cotter pin	2
10	R651970	480243	Nylon bushing (2 per side)	4
11	P650104	-	Brake Peddle (not shown)	1
12	P422355	-	Nonskid foot rest Set	1
13	P654637	-	13/650 Tire, Tube, Rim and Hub Assembly	2
14	R654722.01	480397	¾" Roller Bearing (included with P654637)	2
15	R654722.02	480399	¾" Roller Bearing Retainer (included with P654637)	4
16	R651510	480410	¾" Washer	4
17	R651600	480436	Cotter pin, 3/16 x 1"	2



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	R651600	480436	Cotter Pin	1
2	P645110	-	Nut	1
3	P650948	-	Bolt, 3/4-10 x 1-3/4"	1
4	R651485	480239	Lock washer, 3/4	1
*5	-	-	Rod End Assembly	1
6	R652472	480231	Rod End, Threaded	1
7	R652462	480231	Rod End, Female	1
8	R652478	082477	Seal	1
9	P650948	-	Bolt, Articulating Joint Pivot	1
10	R652472	480231	Rod End, Threaded	1
11	R652474	480238	Zerk Fitting (Rod End, Threaded)	2
12	R652476	480237	Zerk Fitting (Rod End, Female)	1



## Sulky, Articulating Joint Group B1B



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1			Safety wire	1
2	P645110	-	Nut	1
3	P650948	-	Bolt, 3/4-10 x 1-3/4"	1
4	R651485	480239	Lock washer, 3/4	1
*5	-	-	Rod End Assembly	1
6	R652472	480231	Rod End, Threaded	1
7	R652462	480231	Rod End, Female	1
8	R652478	082477	Seal	1
9	P650948	-	Bolt, Articulating Joint Pivot	1
10	R652474	480238	Zerk Fitting (Rod End, Threaded)	2
11	R652476	480237	Zerk Fitting (Rod End, Female)	1
12		-	Sulky Rod	1

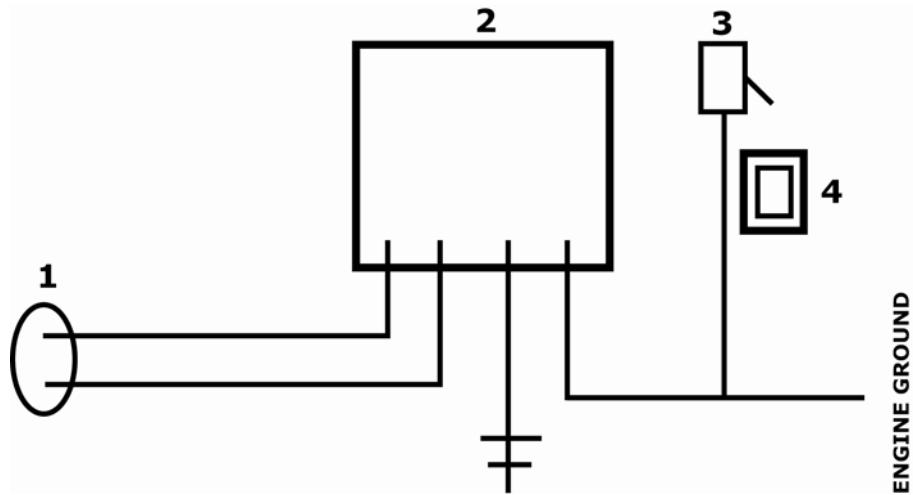


## Body Panel Group



Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	P100601	-	Hood piece	1
2	P100600	-	Nose piece	1
3	P100603	-	Fender, right (not shown)	1
4	P100602	-	Fender, left	1
5	P449210	-	Gas tank	1
6	P100605	-	Deflector cover	1





Item #	Perma Green #	LESCO SKU	Nomenclature	Quantity
1	U422929	-	Neutral Safety Switch	1
2	P100700	-	Neutral Starting Module Harness	2
3	U422927	082489	Kill Switch	3
4	R654555.1	-	Tachometer / Hour Meter	1

**PAGE INTENTIONALLY LEFT BLANK**