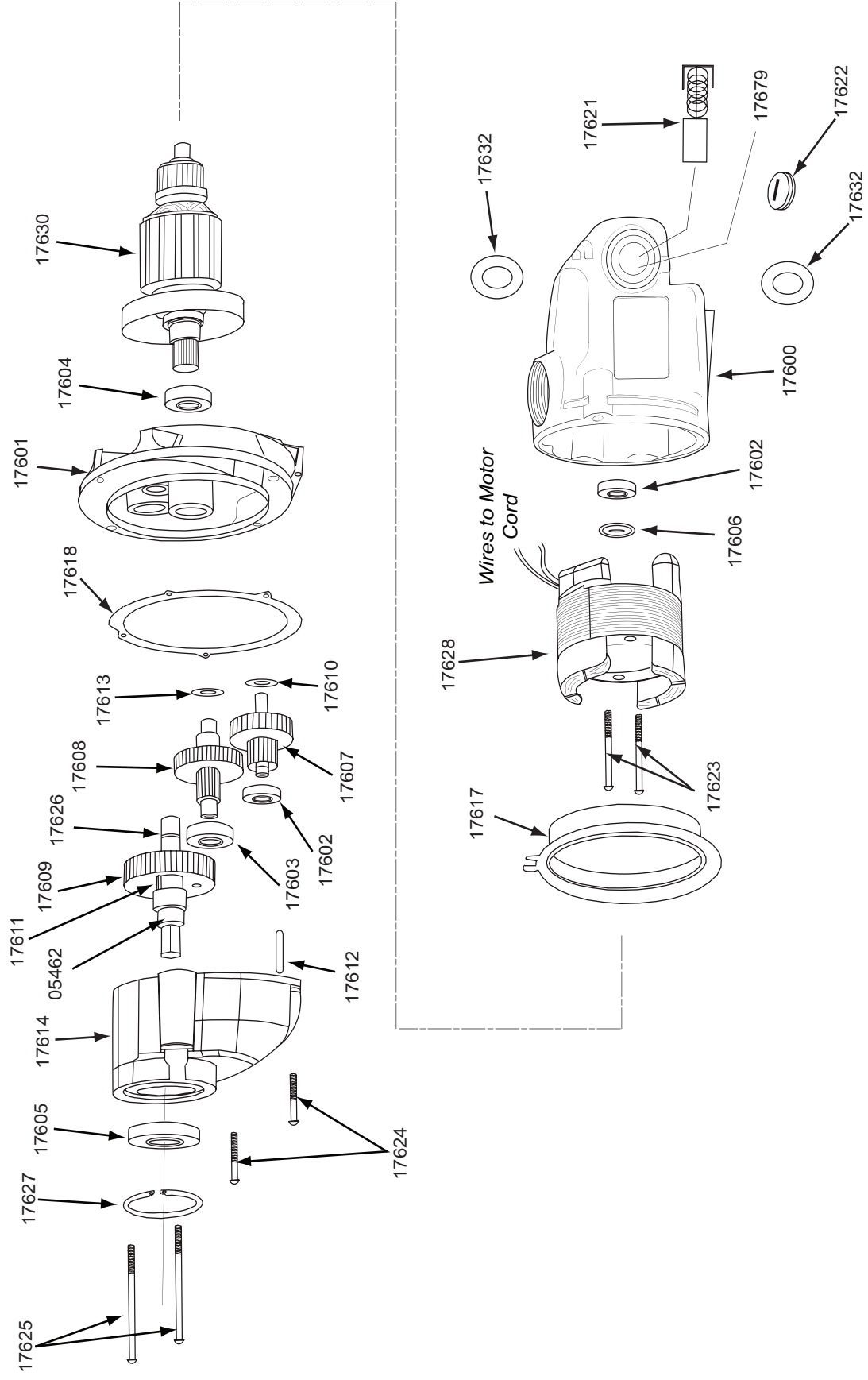
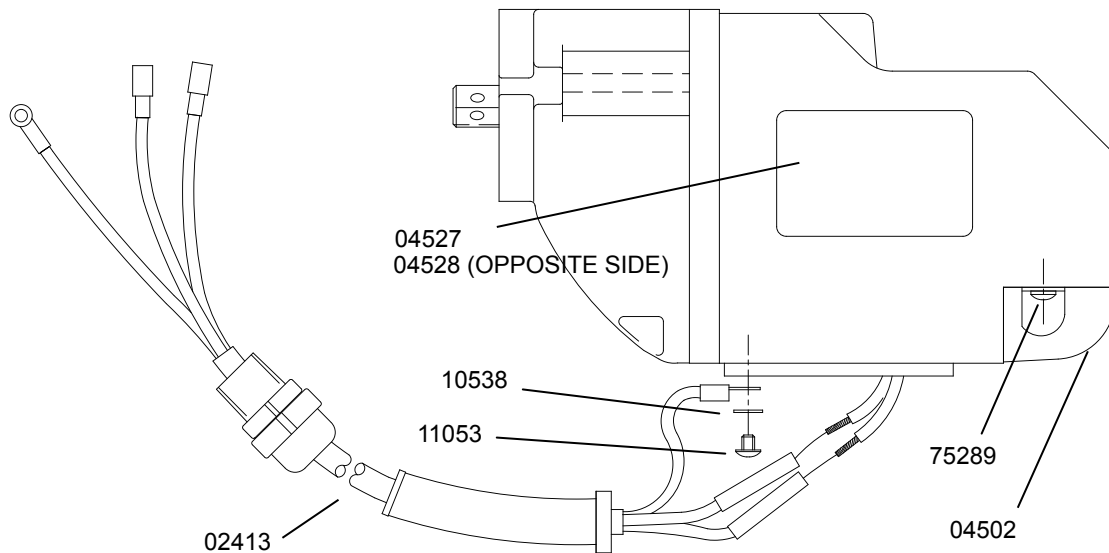


MOTOR PARTS DIAGRAM



MOTOR ASSEMBLY



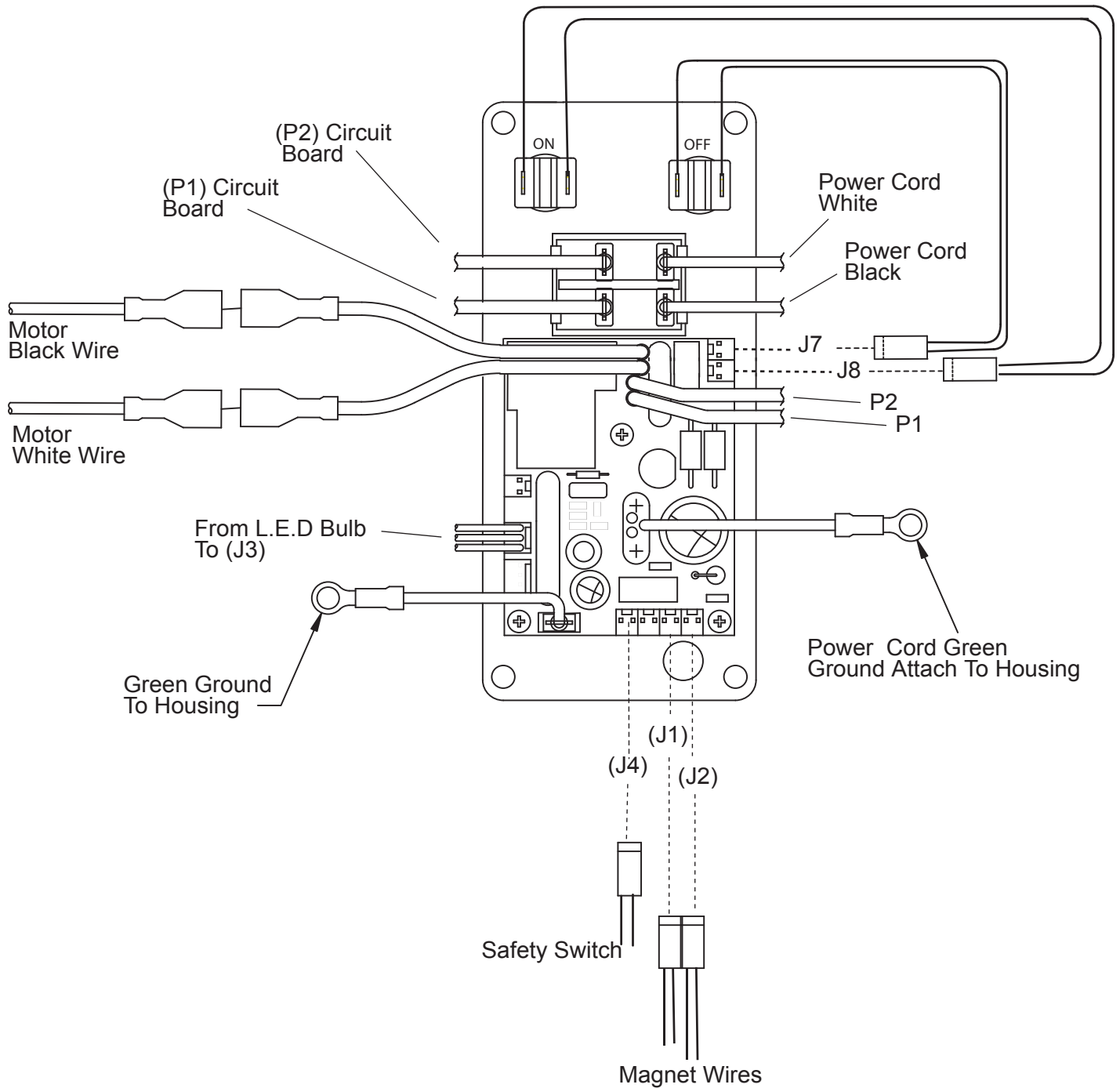
11053 BOLT TORQUE SPECIFICATIONS - TIGHTEN TO 18 IN-LBS

75289 BOLT TORQUE SPECIFICATIONS - TIGHTEN TO 25 IN-LBS

MOTOR PARTS LIST - 05477

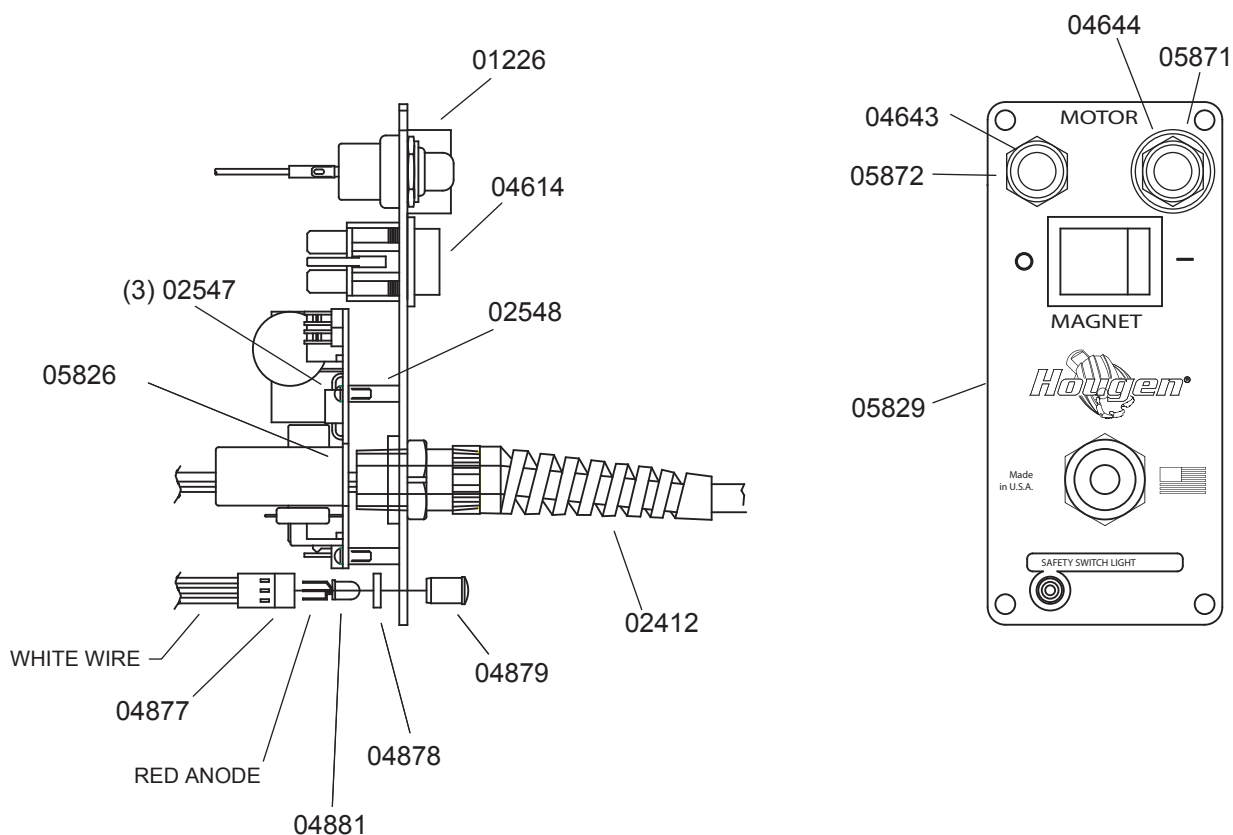
Part #	Description	Qty	Part #	Description	Qty
02413	Motor Cord	1	17611	Key	1
04502	Brush Cover	1	17612	Dowel Pin	1
04527	Label, Motor Specs	1	17613	Flat Washer	1
04528	Label, Motor Safety	1	17614	Gear Housing	1
05462	Spindle	1	17617	Fan Guide	1
10538	Washer #8	1	17618	Gasket	1
11053	Screw BHS #8-32	1	17630	Armature	1
17600	Field Case	1	17628	Field	1
17601	Gear Housing	1	17621	Carbon Brush (Pack of 2)	1
17602	Ball Bearing	2	17622	Brush Cap	2
17603	Ball Bearing	1	17623	Pan Head Screw	2
17604	Ball Bearing	1	17624	Pan Head Screw Short	2
17605	Ball Bearing	1	17625	Pan Head Screw Long	2
17606	Dust Seal	1	17626	Retaining Ring	1
17607	1st Inter. Gear Assy	1	17627	Retaining Ring	1
17608	2nd Inter. Gear Assy	1	17632	Paper Washer	2
17609	Spur Gear	1	17679	Brush Holder	2
17610	Flat Washer	1	75289	Pan Head Screw	2

CONTROL PANEL HOOKUP



CONTROL PANEL PARTS LIST

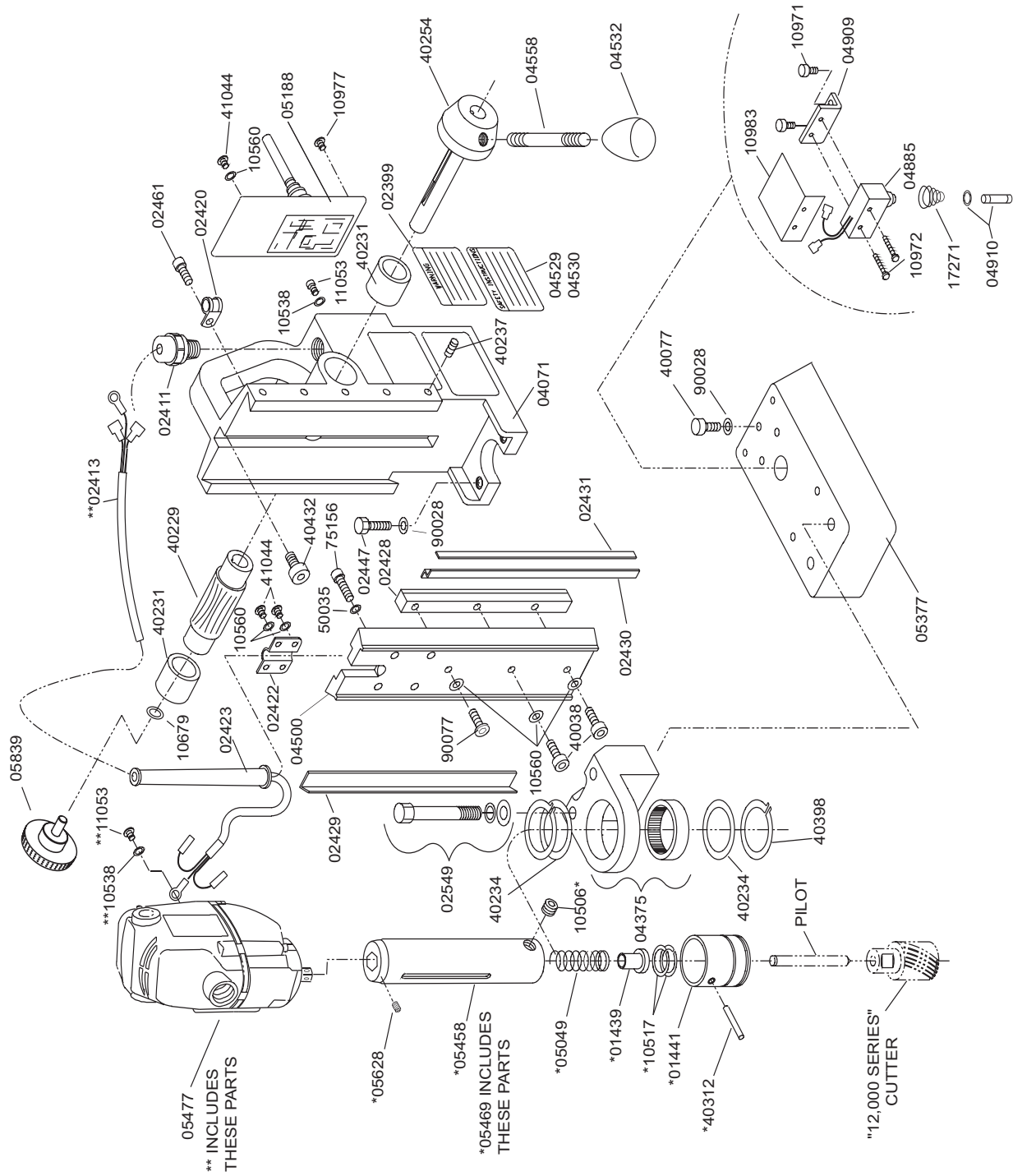
Panel Assembly P/N 05188



NOTE: WHEN INSERTING L.E.D. DETAIL#5 INTO
HARNESS DETAIL#2 MAKE SURE FLAT ON BULB
LINES UP WITH WHITE WIRE ON HARNESS.

Part #	Description	Qty.	Part #	Description	Qty.
01226	Switch Guard	1	04879	Clear Lens	1
02412	Power Cord	1	04881	Bulb L.E.D	1
02547	#4-40 x 5/16 Screw	3	05826	Circuit Board	1
02548	Stand-Off 3/16 x 9/16 LG	3	05829	Faceplate	1
04614	Magnet Switch	1	05871	Motor ON Switch	1
04643	Red Switch Cover	1	05872	Motor OFF Switch	1
04644	Green Switch Cover	1	*05205	Green Wire Assembly	1
04877	Wire Harness	1	*90690	Cable Tie	1
04878	Spacer	1		*not shown	

MODEL HMD904 EXPLODED DIAGRAM



HMD904 PARTS LIST

Part #	Description	Qty	Part #	Description	Qty
02411	Strain Relief-Motor Cord	1	40234	Thrust Washer	2
02413	Motor Cord	1	40254	Hub Assy	1
02420	Motor Cord Clamp	1	40398	Retaining Ring	1
02421	Glide Post Spring	2	40432	Screw SHC 1/4-28	1
02422	Motor Cord Bracket	1	41044	Screw BHC #10-32	6
02423	Motor Cord Flex Prot.	1	50035	Lock Washer 1/4 Ext	4
02428	Rack Gear	1	90028	Lock Washer 1/4 Heli	3
02429	Brass Gib - Right	1	90052	Lock Washer #6 Ext	1
02430	Brass Gib - Left	1	90077	Screw BHC #10-32 x 1/2	1
02431	Steel Gib	1			
02447	Bolt-Hex Head 1/4-28	2		Assemblies	
02461	Screw BHC 1/4-20 x 3/8	2	05477	Motor Assy	
04375	Front Support Bracket	1	04541	Housing Assy	
04500	Motor Mount Slide	1	04529	Safety Label	1
04532	Feed Handle Knob	3	04530	Warning Label	2
04558	Feed Handle	3	04553	Warning Label Chain	1
04885	Safety Switch Assy	1	40231	Bronze Bushing	2
04909	Safety Switch Bracket	1	40229	Feed Gear	1
04910	Plunger Assy	1	40237	Gib Screws	5
05377	Magnet	1	05469	Arbor Assembly	
05839	Knob	1	01441	Ejector Spring	1
10538	Lock Washer	1	01439	Seat Spring	1
10560	Lock Washer	11	05049	Arbor Spring	1
10679	1/4" Flat Washer	1	05458	Arbor Body	1
10971	Screw SHC 1/4-20	2	05628	Set Screws	2
10972	Screw BHC #6-32	2	10506	SCR-Set 3/8-24 SPL	2
10973	Nut	2	10517	Retaining Ring	2
10977	Screw BHC 1/4-20	1	40312	Roll Pin Altered	1
10983	Safety Switch Shield	1	02549	Bolt Kit Assembly	
11053	Screw BHC #8-32	1	02460	Bolt Hex 3/8-24 x 2-3/4	2
17271	Taper Spring	1	40391	Lock Washer 3/8 Heli	2
40038	Screw SHC #10-32	2	40392	Washer Flat 3/8	2
40077	Screw SHC 1/4-20	1	05188	Control Panel Assy	
40214	Screw SHC #6-32	1			

This diagram illustrates the exploded view of a mechanical assembly, likely a pump or motor unit. The components are labeled with part numbers and are organized into several sub-assemblies indicated by dashed lines and brackets.

Key Components and Sub-assemblies:

- Motor Assembly (Bottom Left):** Includes the motor housing (05060), motor (05059), and various mounting and electrical components (05061, 02413, 05839, 10679, 05057, 04157, 04104, 10560, 50035, 02447, 02428, 90077, 10560, 40038, 05058, 02430, 02431, 04071, 90028, 04042, 75156, 04043, 04044, 02422, 02423, 04500, 02429, 04039, 04038, 04037, 04036, 04035, 04034, 04033, 04032, 04031, 04030, 04029, 04028, 04027, 04026, 04025, 04024, 04023, 04022, 04021, 04020, 04019, 04018, 04017, 04016, 04015, 04014, 04013, 04012, 04011, 04010, 04009, 04008, 04007, 04006, 04005, 04004, 04003, 04002, 04001, 04000, 04009, 04008, 04007, 04006, 04005, 04004, 04003, 04002, 04001, 04000).
- Impeller Assembly (Bottom Right):** Includes the impeller (05055), shaft (05054), and various seals and bearings (05050, 05051, 05052, 05053, 05054, 05055, 05056, 05057, 05058, 05059, 05060, 05061, 05062, 05063, 05064, 05065, 05066, 05067, 05068, 05069, 05070, 05071, 05072, 05073, 05074, 05075, 05076, 05077, 05078, 05079, 05080, 05081, 05082, 05083, 05084, 05085, 05086, 05087, 05088, 05089, 05090, 05091, 05092, 05093, 05094, 05095, 05096, 05097, 05098, 05099, 05100).
- Mounting and Support Components:** Includes various brackets, bolts, and fasteners (02413, 05839, 10679, 05057, 04157, 04104, 10560, 50035, 02447, 02428, 90077, 10560, 40038, 05058, 02430, 02431, 04071, 90028, 04042, 75156, 04043, 04044, 02422, 02423, 04500, 02429, 04039, 04038, 04037, 04036, 04035, 04034, 04033, 04032, 04031, 04030, 04029, 04028, 04027, 04026, 04025, 04024, 04023, 04022, 04021, 04020, 04019, 04018, 04017, 04016, 04015, 04014, 04013, 04012, 04011, 04010, 04009, 04008, 04007, 04006, 04005, 04004, 04003, 04002, 04001, 04000).
- Electrical and Control Components:** Includes the control box (04530 (2)), wiring harness (04531), and various electrical connectors (04532, 04533, 04534, 04535, 04536, 04537, 04538, 04539, 04540, 04541, 04542, 04543, 04544, 04545, 04546, 04547, 04548, 04549, 04550, 04551, 04552, 04553, 04554, 04555, 04556, 04557, 04558, 04559, 04560, 04561, 04562, 04563, 04564, 04565, 04566, 04567, 04568, 04569, 04570, 04571, 04572, 04573, 04574, 04575, 04576, 04577, 04578, 04579, 04580, 04581, 04582, 04583, 04584, 04585, 04586, 04587, 04588, 04589, 04590, 04591, 04592, 04593, 04594, 04595, 04596, 04597, 04598, 04599, 04600).

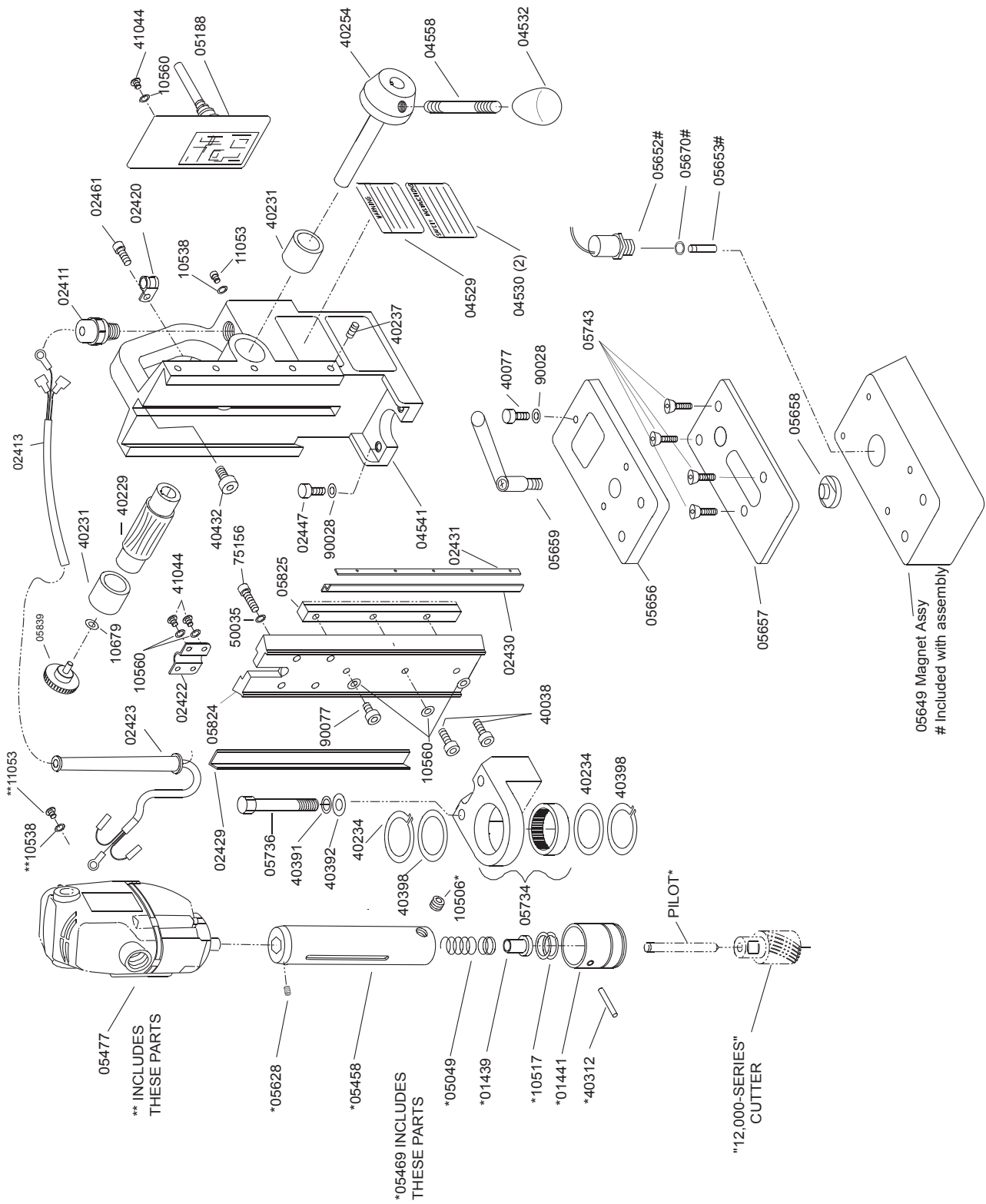
Assembly Notes:

- ** INCLUDES THESE PARTS:** This note points to a group of components including the motor housing (05060), motor (05059), and various mounting and electrical components.
- HOOKS TO COOLANT INDUCER:** This note points to a specific component (05059) that is used to connect the motor to the coolant inducer.

HMD904C PARTS LIST

Part #	Description	Qty	Part #	Description	Qty
02411	Strain Relief-Motor Cord	1	90028	Lock Washer 1/4 Heli	3
02413	Motor Cord	1	90052	Lock Washer #6 Ext	1
02420	Motor Cord Clamp	1	90077	Screw BHC #10-32 x 1/2	1
02422	Motor Cord Bracket	1		Assemblies	
02423	Motor Cord Flex Prot.	1	05477	Motor Assy	
02428	Rack Gear	1	04541	Housing Assembly	
02429	Brass Gib - Right	1	04529	Safety Label	1
02430	Brass Gib - Left	1	04530	Warning Label	1
02431	Steel Gib	1	04553	Warning Label Chain	1
02447	Bolt-Hex Head 1/4-28	2	40231	Bronze Bushing	2
02461	Screw BHC 1/4-20 x 3/8	2	40229	Feed Gear	1
04375	Front Support Bracket	1	40237	Gib Screws	5
04500	Motor Mount Slide	1	05471	Arbor Assembly	
04532	Feed Handle Knob	3	05050	Spring Compression	1
04558	Feed Handle	3	05054	Seat Spring	1
04885	Safety Switch Assy	1	05461	Arbor Body	1
04909	Safety Switch Bracket	1	05628	Set Screws	2
04910	Plunger Assy	1	04986	Rubber Washer	1
05055	Collar	1	10506	SCR-Set 3/8-24 SPL	2
05377	Magnet	1	10517	Retaining Ring	1
05839	Knob	1	05358	Washer, Shim	1
10538	Lock Washer	1	40332	Inducer Collar Assy.	
10560	Lock Washer	11	40295	Collar Inducer	1
10679	1/4" Flat Washer	1	40300	"O" Rings	2
10971	Screw SHC 1/4-20	2	40302	Ring Retaining	2
10972	Screw BHC #6-32	2	40301	Washer	2
10973	Nut	2	40303	Fitting - Tube	1
10977	Screw BHC 1/4-20	1	05060	Bottle-Coolant Assy.	
10983	Safety Switch Shield	1	05064	Bottle - Round	1
11053	Screw BHC #8-32	1	05059	Holder - Coolant Btl	1
17271	Taper Spring	1	05061	Knob-Thumb Screw	1
40038	Screw SHC #10-32	2	40429	Nut Locking 1/8 NPT	1
40077	Screw SHC 1/4-20	1	04391	"O" Ring	1
40214	Screw SHC #6-32	1	05065	Ball - Valve Assy	1
40234	Thrust Washer	2	05067	Fitting Brass Barb	1
40254	Hub Assembly	1	40304	Tubing - Viny'	1
40398	Retaining Ring	1	05188	Control Panel Assy	1
40432	Screw SHC 1/4-28	1			
41044	Screw BHC #10-32	6			
50035	Lock Washer 1/4 Ext	4			

MODEL HMD904S EXPLODED DIAGRAM



HMD904S PARTS LIST

Part #	Description	Qty	Part #	Description	Qty
02411	Strain Relief-Motor Cord	1	40398	Retaining Ring	1
02413	Motor Cord	1	40432	Screw SHC 1/4-28	1
02420	Motor Cord Clamp	1	41044	Screw BHC #10-32	6
02422	Motor Cord Bracket	1	50035	Lock Washer 1/4 Ext	4
02423	Motor Cord Flex Prot.	1	90028	Lock Washer 1/4 Heli	3
05669	Rack Gear	1	90052	Lock Washer #6 Ext	1
02429	Brass Gib - Right	1	90077	Screw BHC #10-32 x 1/2	1
02430	Brass Gib - Left	1			
02431	Steel Gib	1		Assemblies	
02447	Bolt-Hex Head 1/4-28	2	05649	Magnet Assembly	
02461	Screw BHC 1/4-20 x 3/8	2	05650	Magnet	1
04532	Feed Handle Knob	3	05652	Safety switch Assembly	1
04558	Feed Handle	3	05653	Plunger	1
05656	Swivel Plate	1	05670	Ring, Retaining	1
05657	Slide Plate	1			
05658	Pivot Rod	1	05477	Motor Assy	
05659	Clamp Handle Assembly	1			
05734	Front Support bracket Assy	1	04541	Housing Assy	
05736	Bolt Hex Head 3/8-24 x 2"	2	04529	Safety Label	1
05743	Screw-FHSC 1/4-20 x 3/4	4	04530	Warning Label	2
05824	Motor Mount Slide	1	04553	Warning Label Chain	1
05825	Rack Gear	1	40231	Bronze Bushing	2
05839	Knob	1	40229	Feed Gear	1
10538	Lock Washer	1	40237	Gib Screws	5
10560	Lock Washer	11			
10679	1/4" Flat Washer	1	05469	Arbor Assembly	
10971	Screw SHC 1/4-20	2	01441	Ejector Spring	1
10972	Screw BHC #6-32	2	01439	Seat Spring	1
10973	Nut	2	05049	Arbor Spring	1
10977	Screw BHC 1/4-20	1	05458	Arbor Body	1
10983	Safety Switch Shield	1	05628	Set Screws	2
11053	Screw BHC #8-32	1	10506	SCR-Set 3/8-24 SPL	2
17271	Taper Spring	1	10517	Retaining Ring	2
40038	Screw SHC #10-32	2	40312	Roll Pin Altered	1
40077	Screw SHC 1/4-20	1			
40214	Screw SHC #6-32	1	05188	Control Panel Assy	
40234	Thrust Washer	2			
40254	Hub Assy	1			