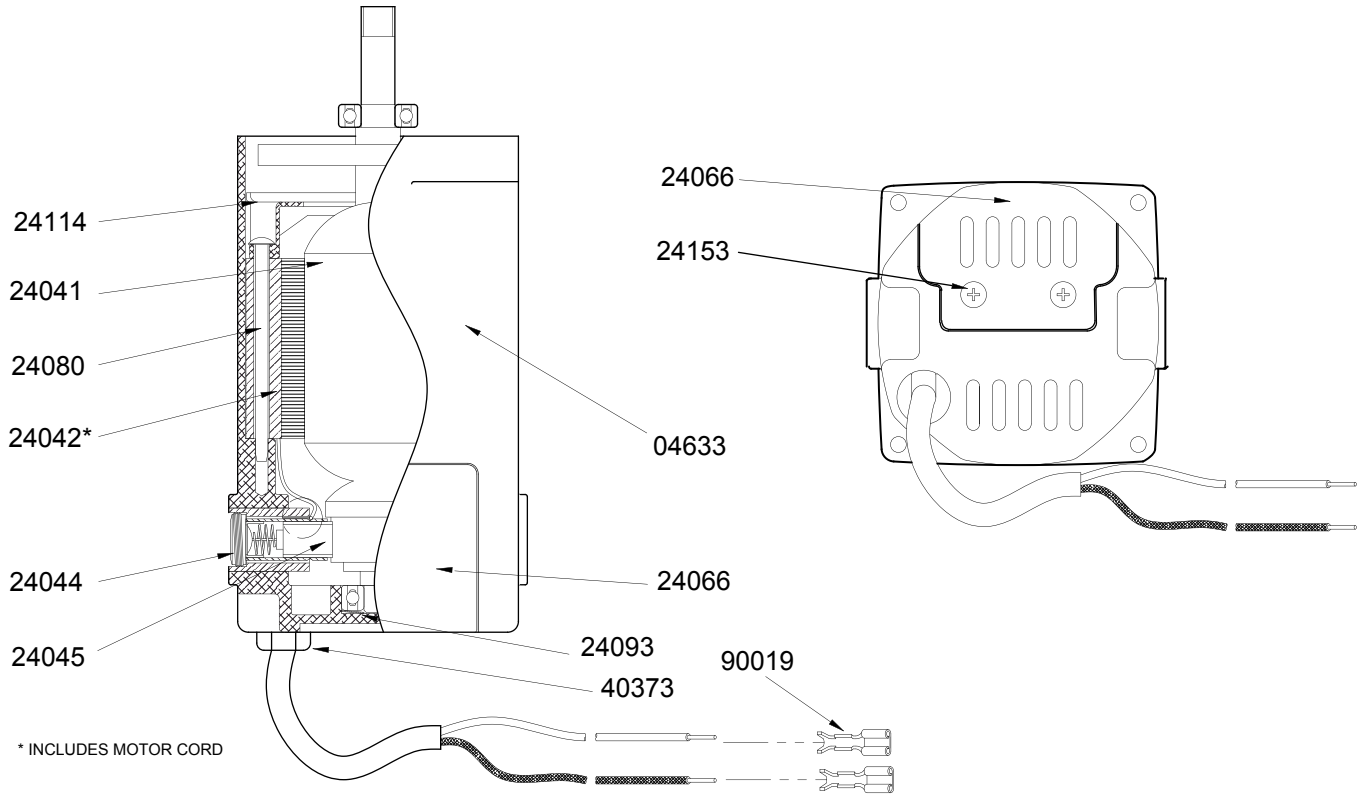
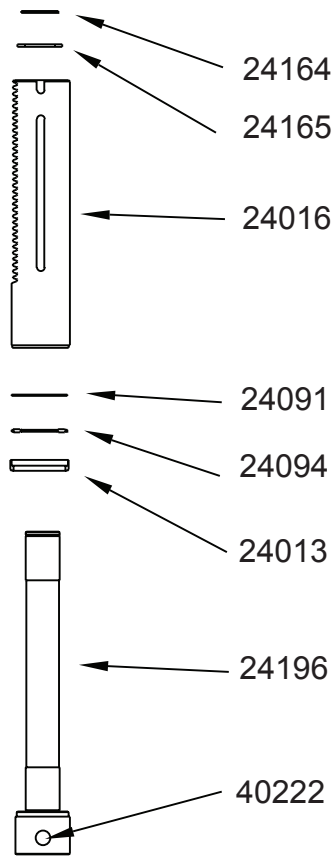


HMD505 MOTOR - 04631



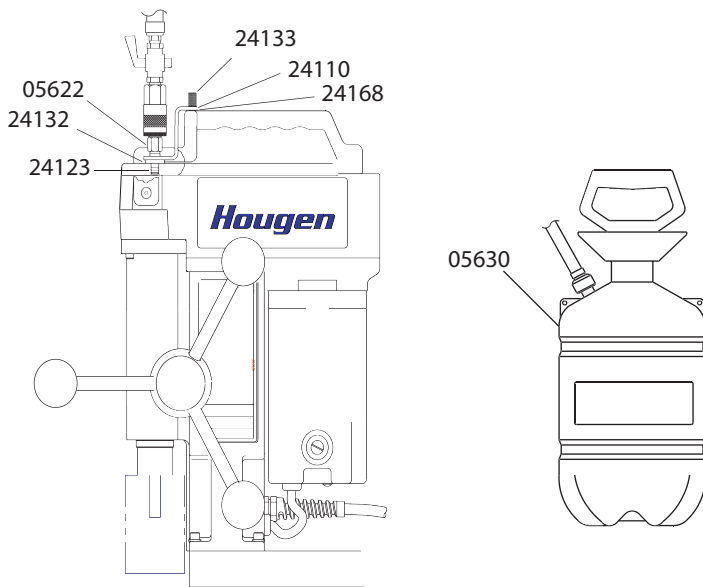
Part #	Description	Qty
04633	Motor Housing Assy	1
24041	Armature	1
24042	Field	1
24044	Cap for Brush	2
24045	Brush (Package of 2)	1
24066	Access Door	1
24080	Screw Self Tapping #10 x 3-1/4	2
24093	Spring Washer	1
24114	Motor Baffle	1
24153	Screw Self Tapping	2
40373	Strain Relief	1
90019	Terminal	2

ARBOR ASSEMBLY - 24199



Part #	Description	Qty
24013	Thrust Bearing Seal	1
24016	Quill	1
24091	Thrust washer	1
24094	Thrust Needle Bearing	1
24164	LH Retaining Ring	1
24165	Washer	1
24196	Arbor	1
40222	Set Screw	2

OPTIONAL PRESSURIZED COOLANT BOTTLE 24140

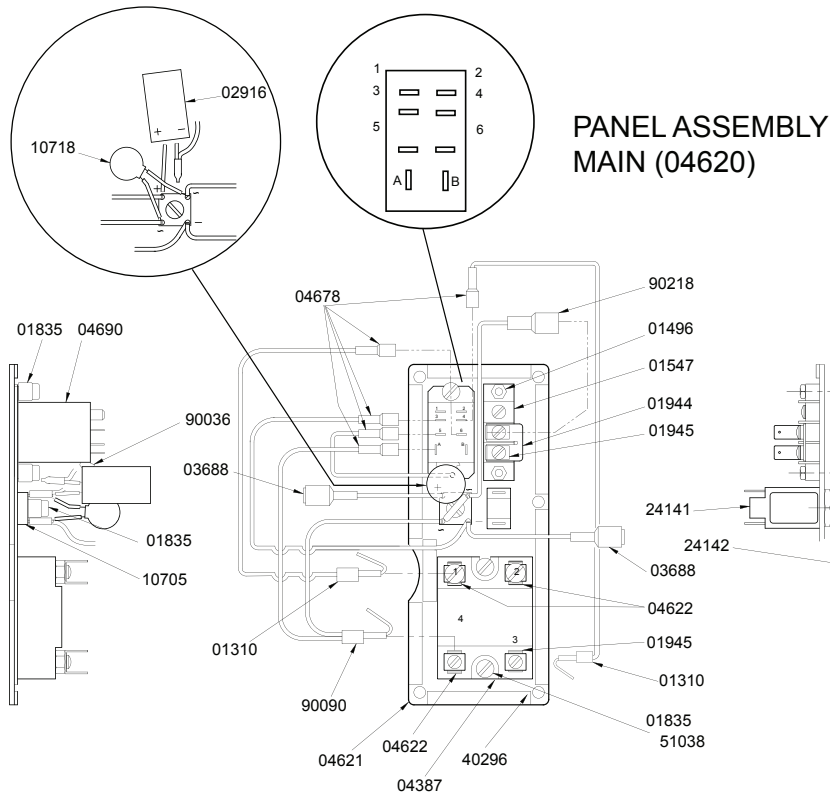
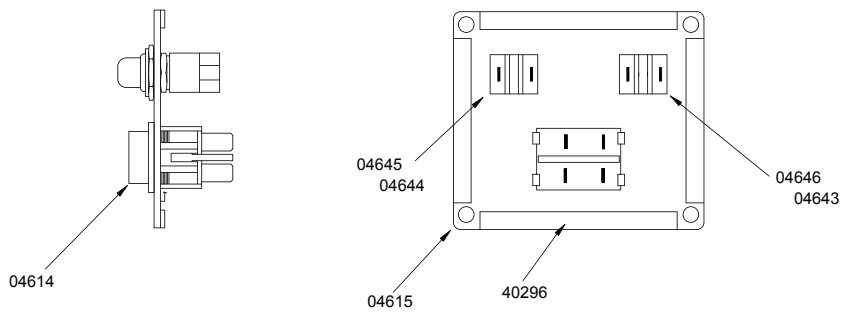


Part #	Description	Qty
05622*	QUICK CONNECT	1
05630*	COLLANT BOTTLE ASSY	1
24110*	SCREW, CAPTIVE	1
24123*	"O" RING	1
24132*	ADAPTER	1
24133*	BRACKET	1
24168*	NYLON FLAT WASHER	1

* PARTS INCLUDED WITH 24140

HMD505 PANEL PARTS

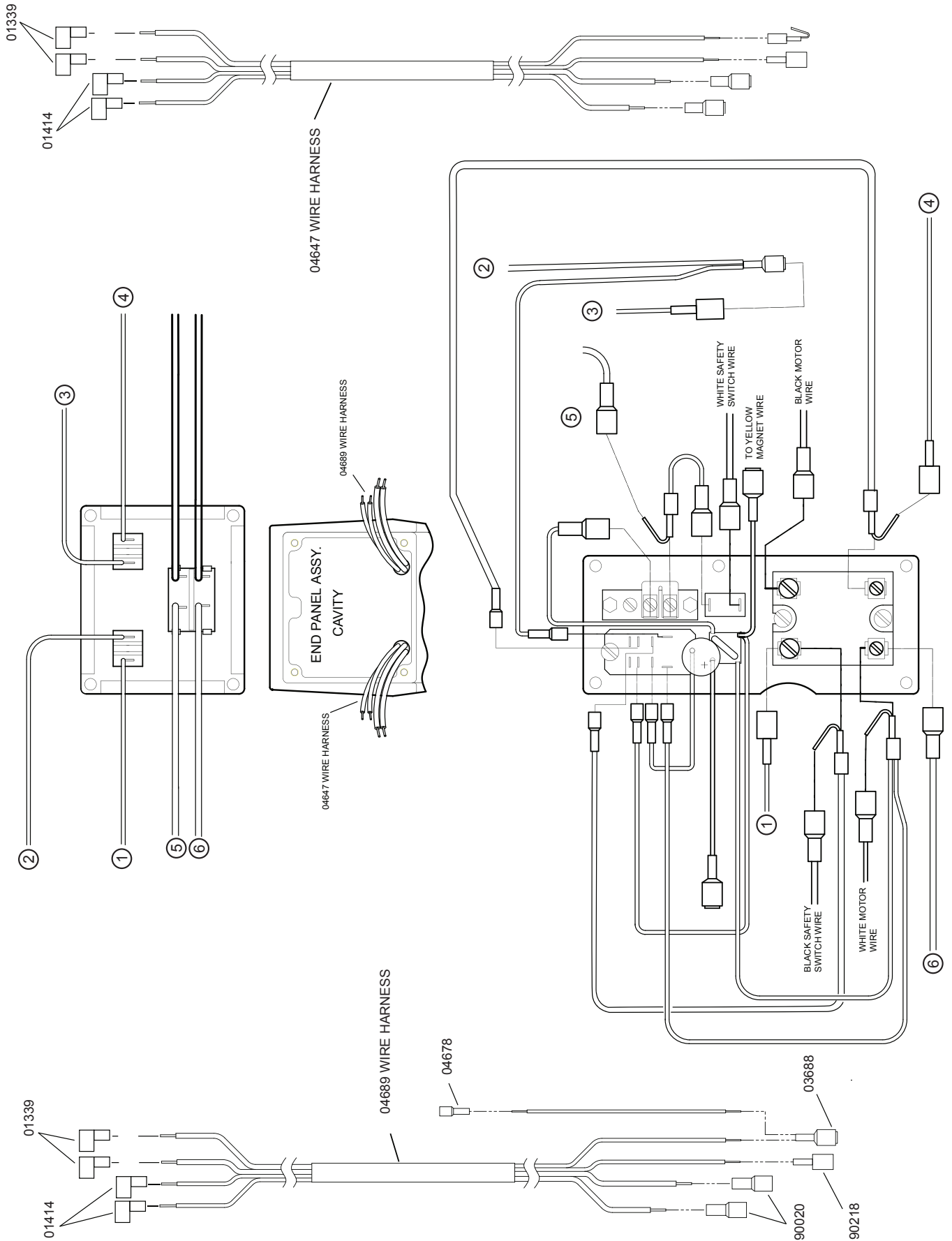
PANEL ASSEMBLY END (04613)



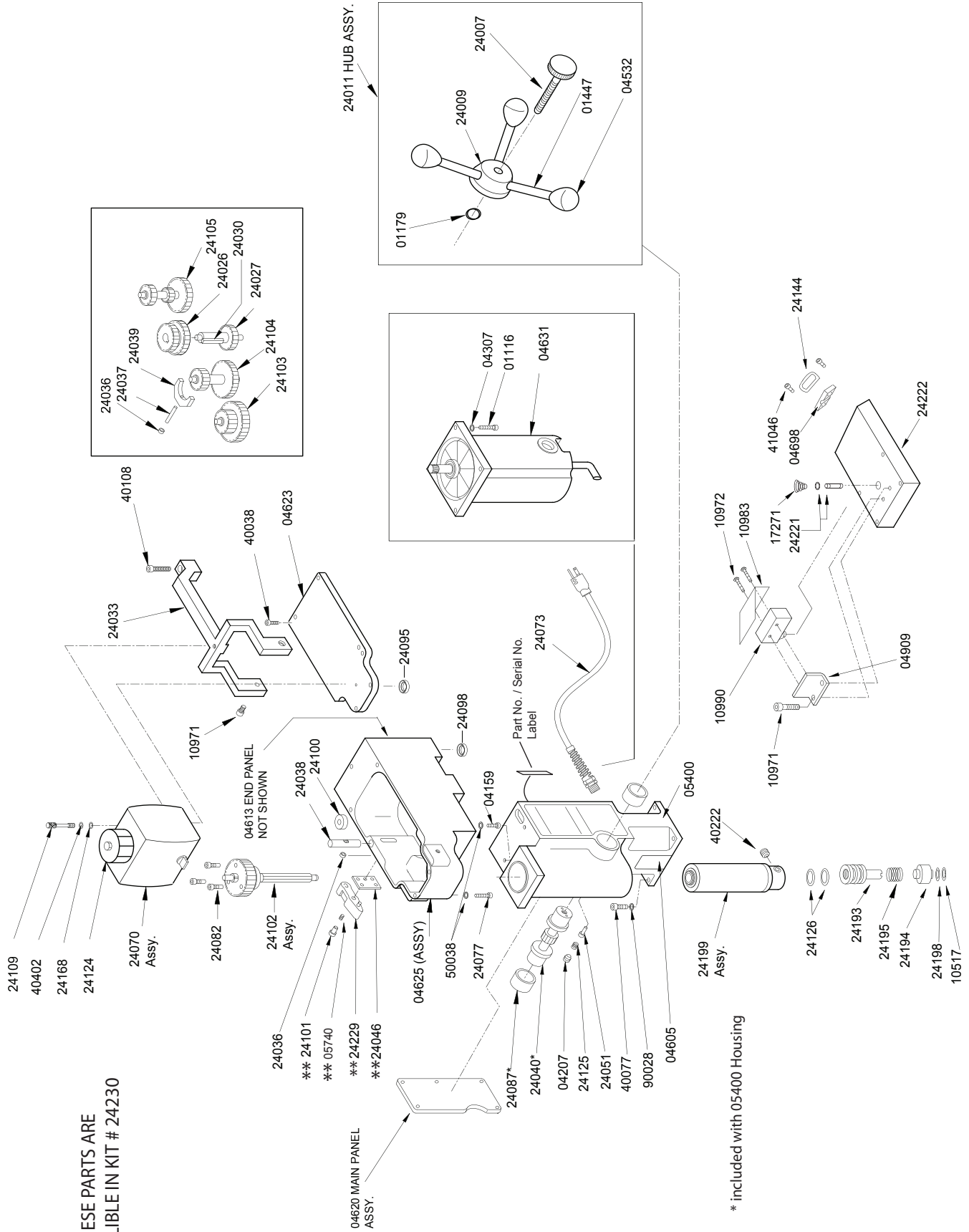
Part #	Description	Qty
01310	Terminal Piggy Back	2
01496	Spacer	2
01547	Terminal Strip	1
01835	Nylon Nut	5
01944	Terminal Jumper	1
01945	Terminal Spade	3
02916	Capacitor	1
03688	Terminal Male Insulator	2
04387	Relay 240V	1
04614	Rocker Switch	1
04615	Faceplate End	1
04621	Faceplate Front	1
04622	Double Terminal	3
04643	Red Seal	1

Part #	Description	Qty
04644	Green Seal	1
04645	Switch On	1
04646	Switch Off	1
04678	Terminal Female Insulator	1
04690	Relay 15A	1
10705	Rectifier	1
10718	Surge Suppressor	1
24141	Circuit Breaker 14A	1
24142	Cover	1
40296	Sponge Seal	1
51038	Flat Washer #6	2
90036	Adhesive	1
90090	Terminal Piggy Back	1
90218	Terminal Female	1

HMD505 HOOK UP DIAGRAM



HOUGEN HMD505 EXPLODED VIEW



** THESE PARTS ARE AVAILABLE IN KIT # 24230

* included with 05400 Housing

HMD505 DRILL PARTS LIST

Part #	Description	Qty	Part #	Description	Qty
01116	Screw SHC #10-32	4	24046	Gear Switch Plate	1
01179	O-Ring	1	24051	Quill Stop	1
01447	Feed Handle	3	24070	Coolant Bottle Assy.	1
04157	Screw FHSCC #10-32	2	24073	Power Cord Assy	1
04158	Screw Self Thd #10-24	1	24077	Screw SHC #10-32	4
04159	Screw LHSCS #10-32	2	24082	Screw SHC #6-32	3
04207	Screw SOC Set 3/8-16	1	24087	Bearing Bush	2
04307	Flat Washer #10	4	24092	Spring Washer	1
04532	Feed Knob	3	24095	Lip Seal (Gear Cover Cap)	1
04605	Plate	1	24096	Lip Seal (Armature Shaft)	1
04623	Cover & Bearing Assy	1	24100	Ball Bearing	9
04631	Motor Assy	1	24101	Screw SHSLD 1/4"	1
04640	Gear Box Housing	1	24102	Spline Shaft	1
04647	Wire Assy	1	24103	Spur Gear & Shaft	1
04689	Wire Assy	1	24104	Spur Gear & Shaft	1
04698	Chain Plate	1	24105	Spur Gear & Shaft	1
04909	Safety Switch Bracket	1	24109	Screw - Capt. Thumb	1
05400	Housing Assy	1	24124	Cap-Coolant Bottle	1
05740	Spring Compressed	1	24125	Compression Spring	1
10517	Retaining Ring	1	24126	O-Ring	2
10560	Washer #10-Ext	1	24143	Spring Plate	1
10727	Allen Wrench 3/16	1	24144	Ring-D	1
10730	Chain Assy	1	24159	Gear Switch & Plunger	1
10971	Screw SHC 1/4-20	2	24166	Hex Key T-Handle	1
10972	Screw BHC #6-32	2	24167	Compression Spring	2
10983	Microswitch Shield	1	24193	Spline Extension	1
10990	Safety Switch	1	24194	Spring Plunger	1
13013	Allen Wrench 5/32	1	24195	Compression Spring	1
17271	Compression Spring	1	24198	Lip Seal	1
24007	Knob for Feed Hub	1	24199	Quill & Arbor	1
24009	Feed Hub	1	24221	Plunger Assy	1
24011	Feed Hub Assy	1	24222	Magnet Assy	1
24013	Thrust Bearing Seal	1	24229	Handle Assembly	1
24026	Gear 32 & 39 Tooth	1	40038	Screw SHC #10-32	6
24027	Gear & Shaft Assy #2	1	40077	Screw SHC 1/4-20	4
24030	Key 3/16"	1	40108	Screw-SHC 1/4-20	1
24033	Carrying Handle	1	40402	Washer Flat	1
24036	Washer-Gear Shift	2	41044	Screw BHC #10-32	9
24037	Dowel Pin 3/16"	1	41046	Screw SHC #10	4
24038	Gear Shift Pin	1	50038	Washer Heli-Lock	4
24039	Gear Shift Yolk	1	90028	Washer Heli 1/4"	4