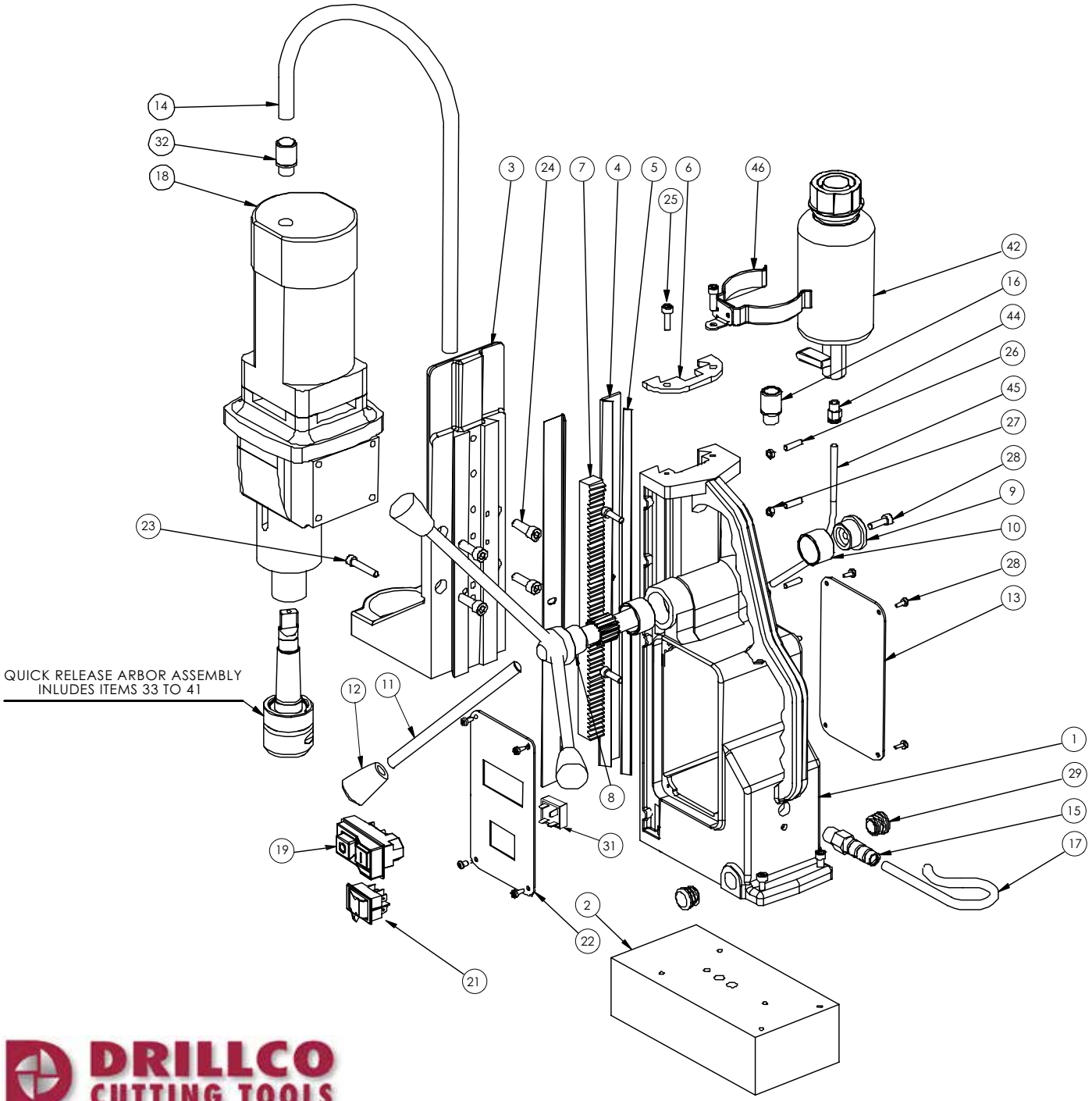
DC100 Assembly & Parts List

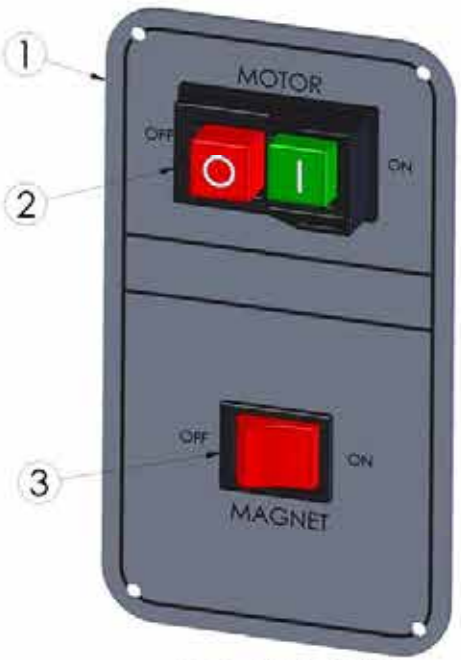


ITEM NO	DESCRIPTION	QTY
1	BODY	1
2	MAGNET BASE (LARGE)	1
3	EIBENSTOCK CRADLE	1
4	BRASS RAIL	2
5	G.F.S.	1
6	TOP PLATE (DOVETAIL)	1
7	RACK	1
8	PINION - (LARGE)	1
9	PINION END CAP (SHALLOW)	1
10	BUSH (PINION)	2
11	HANDLE (12mm LARGE)	3
12	HANDLE KNOB (12mm KNOCK ON)	3
13	WARNING PLATE (LARGE)	1
14	CONDUIT	1
15	M16 STRAIN RELIEF CABLE GLAND	1
16	M16 PUSH FIT GLAND	1
17	CABLE YELLOW (110V)	
18	EIBENSTOCK DRILL - 110V	1
19	DRILL STOP/START SWITCH 110V	1
20	BRIDGE RECTIFIER	1
21	MAGNET SWITCH (NCP)	1
22	NCP SWITCH PLATE LARGE	1
23	M6 x 30 CAP HEAD SCREW	1
24	M8 x 16 CAP HEAD SCREW	4
25	M6 x 16 CAP HEAD SCREW	5
26	M5 x 25 SOCKET SET SCREW	6
27	M5 NYLOK NUT	6
28	M4 x 10 BUTTON HEAD SCREW	8
29	SWIVEL PIN BLANKING BUNG	2
32	PG9 PUSH FIT GLAND	1
33	EIBENSTOCK Q/R ARBOR BODY	1
34	ARBOR EJECTION PLUG (M/TAPER)	1
35	ARBOR SPRING (M/TAPER)	1
36	QUICK RELEASE ARBOR COLLAR	1
37	QUICK RELEASE ARBOR LOCK SHOE	1
38	Q/RELEASE COLLAR SPRING	1
39	QUICK REL ARBOR TOR SPRING	2
40	20MM O/D X 4MM NITRILE O RING	1
41	38OD V INTERNAL CIRCLIP	1
42	LARGE OIL CUP ASSEMBLY	1
44	1/8" BSP - 6MM PUSH FIT CONNECT	2
45	6mm OIL PIPE (OIL FEED ASSY)	1
46	OIL CUP RETAINING CLIP COMPLETE	1

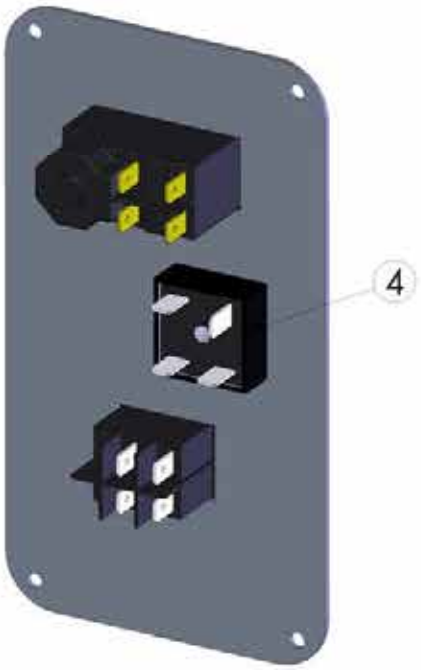
N.B. SAFETY GUARD (VISO10) IS NOT SHOWN

DRILLCO CUTTING TOOLS

DC100 Switchplate (NCP Panel)

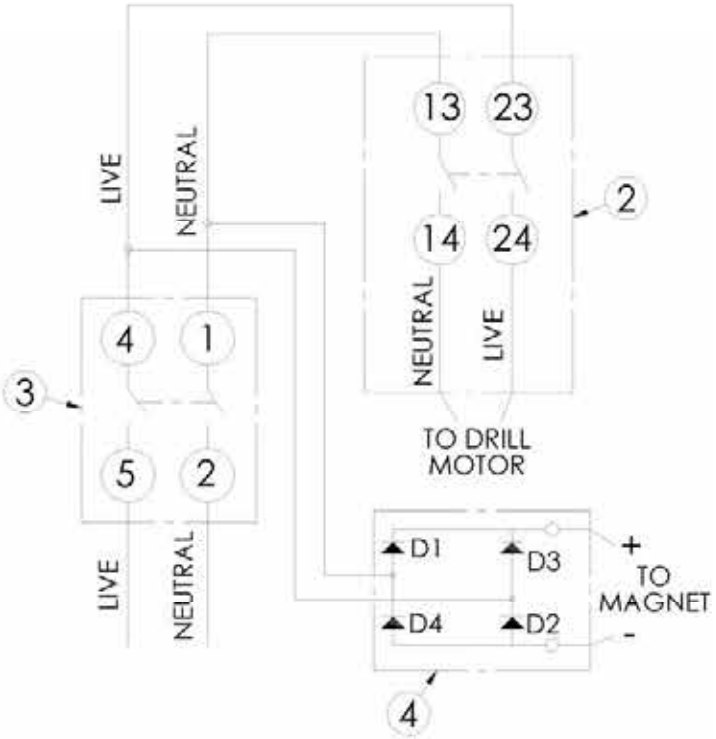


FRONT VIEW



REAR VIEW

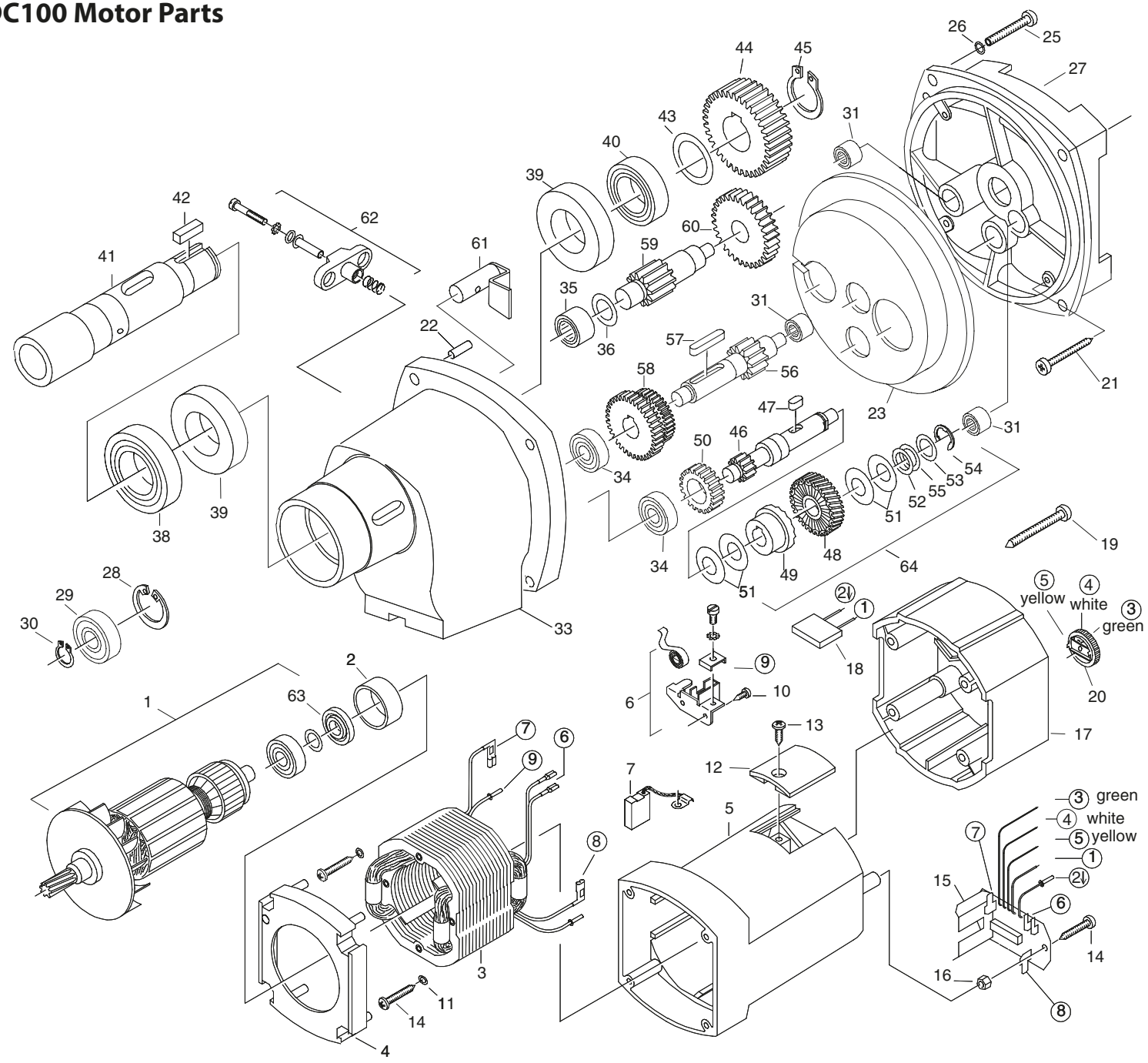
ITEM 4 TO BE BONDED
TO REAR OF PLATE



ITEM NO.	QTY.	DESCRIPTION
1	1	NCP BLANK SWITCH PLATE - LARGE
2	1	DRILL STOP/START SWITCH-120v
3	1	MAGNET SWITCH-NCP PANEL
4	1	25A-BRIDGE RECTIFIER

DRILLCO CUTTING TOOLS

DC100 Motor Parts



ITEM No	DESCRIPTION
1	ARMATURE 110V - worm drive
2	ARMATURE BEARING CAP
3	FIELD COIL 110V
4	FAN COVER
5	MOTOR HOUSING
6	**BRUSH HOLDER**
7	CARBON BRUSH
8	**********
9	**********
10	SCREW HC 2.9X13
11	**SPRING WASHER S6**
12	BRUSH COVER
13	SCREW HC 4.2X13
14	SCREW HC 4.2X25
15	CIRCUIT BOARD 110V
16	M5 PLASTIC NUT
17	DRILL CAP
18	SUPRESSOR
19	SCREW HC 4.8X50
20	SPEED CONTROL KNOB
21	**SCREW HC 4.8X45**
22	LOCATING DOWEL 5X12
23	GEAR PLATE SHIELD
24	**********
25	SCREW M6X20
26	WASHER A6
27	GEAR PLATE
28	CIRCLIP 32/1.2
29	BEARING '6201 LUZ'
30	CIRCLIP 11/1
31	HK0810 BEARING
33	GEAR BOX HOUSING
34	BEARING '6000'
35	'RNA 4900' NEEDLE BEARING
36	RNA 4900' WASHER
37	**********
38	BEARING '6006 2RS'
39	SEAL '30X47X7'
40	**BEARING '6005 2RS'**
41	SPINDLE
42	KEY 'B6X6X20
43	COMPRESSOR RING 32/35X0.1
44	MAIN GEAR
45	**CIRCLIP 24/1.2**
46	TRAILER GEAR 1
47	KEY
48	CLUTCH GEAR - WORM DRIVE
49	CLUTCH COUPLING
50	INTER GEAR 28 Z
51	WASHER '28X12.2X1'
52	WASHER '12/18X0.5
53	THRUST WASHER
54	CIRCLIP '9'
55	THRUST WASHER '12.1X18X1'
56	**TRAILER GEAR 2**
57	KEY 'A5X5X28
58	DOUBLE GEAR
59	TRAILER GEAR 3
60	SPUR GEAR
61	GEAR LEVER
62	GEAR LEVER ASSEMBLY
63	TACHO RING
64	CLUTCH GEAR ASSEMBLY

DRILLCO CUTTING TOOLS

DC100 Overview
Variable Speed and Drill Instructions

Motor

- Variable speed control knob is located on the top of the motor. It is a dial numbered 1-5
- Inside the motor, just under the variable speed dial, is a circuit board that senses torque overloads, and when tripped will stall the motor
    - This prevents damage to the gears and forces the user to make the optimal cut
    - When this sensor is tripped, simply push the red button on the start/stop switch, and then push the green again to resume drilling
- The motor has 2 gears. The gear change slide is located on the side of the motor
    - When this black slide is in the down position, you are in the lower gear (40-130 RPM)
    - When in the up position, you are in high gear (160-450 RPM)
    - To select proper gear and dial refer to this chart (Diameters assume HSS or Cobalt cutting mild steel. For harder steels, decrease RPM)

Dial#	Low gear (Black slide in down position)	High gear (black slide in up position)
1	50 rpm (3-1/4 -4)	160 rpm (1-9/16 -1-3/4)
2	70 rpm (2-3/4 – 3-3/16)	230 rpm (1-13/16 -1-1/2)
3	90 rpm (2-3/8 – 2-11/16)	305 rpm (1-1/16 – 1-1/8)
4	110 rpm (2-1/16 – 2-3/16)	380 rpm (13/16 -1)
5	130 rpm (1-13/16 – 2)	450 rpm (7/16 – 3/4)

Figure 1- Speed Control Dial

Figure 2- Gear Change Slide

To operate: Turn magnet on. If there is a fwd/rev toggle switch, click up into 'fwd' setting. Make sure you are in proper gear (do NOT try and change gear when motor is running). Push green 'ON' button. Adjust speed with top dial.

For cutting guidelines, refer to our "Guide to Good Drilling" handbook found inside the drill case

www.drillco-inc.com
13011 S. Choctaw Drive
Baton Rouge, LA 70815
Ph: 800-851-3821 Fax: 800-315-9225
sales@drillco-inc.com