

# JABIRU ENGINE PARTS BOOK



## Jabiru 4 Cyl 2200cc Engine.

Jabiru Aircraft Pty Ltd ACN 010 910 077

PO Box 5186 Bundaberg

Australia 4670

Australia: Phone 07 4155 1778 Fax 07 4155 2669

International: Phone + 61 7 4155 1778 Fax + 61 7 4155 2669

Email: [info@jabiru.net.au](mailto:info@jabiru.net.au) Web: [www.jabiru.net.au](http://www.jabiru.net.au)

Applicable for Jabiru 2200 Aircraft Engines. S/No. 2068 onwards.



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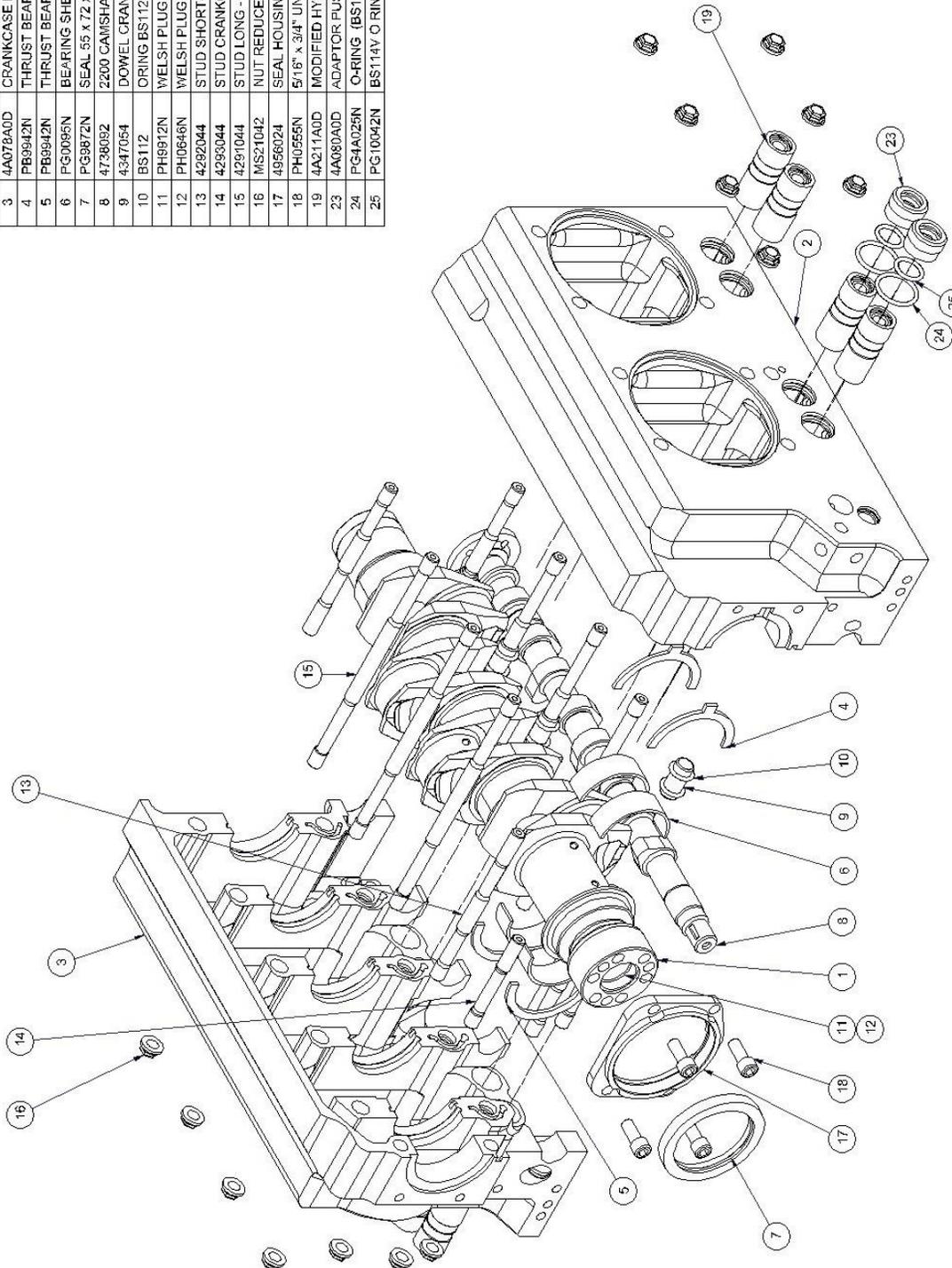
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Note:

- Refer to Installation Manual for details of parts used in engine installation.
- Refer to Installation Manual for data & installation details on engine cooling ducts.

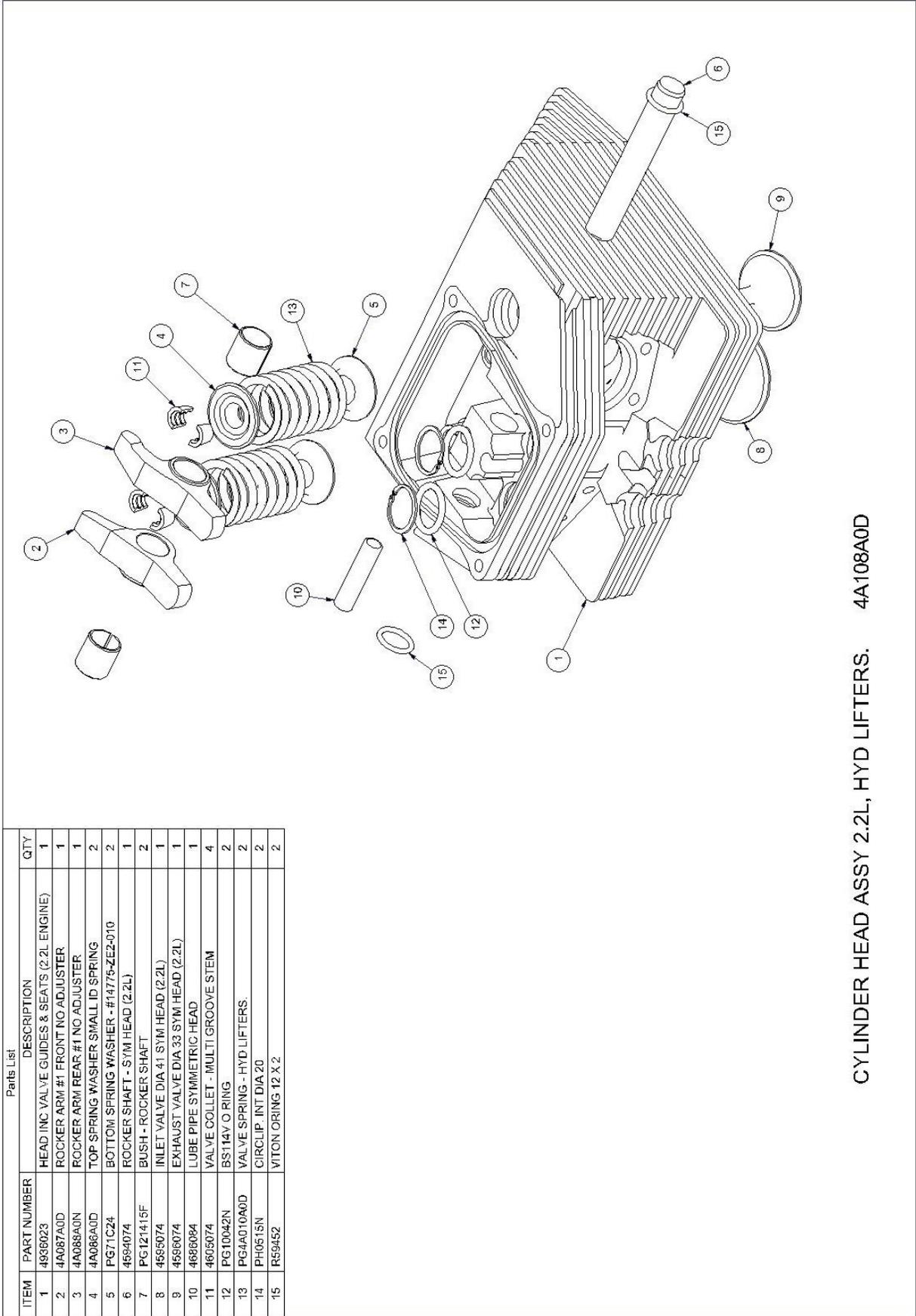
ITEM	PART No.	DESCRIPTION	QTY
1	4644082	CRANKSHAFT LONG 2.2L	1
2	4A079A0D	CRANKCASE LS 2.2L HYD LIFTERS	1
3	4A078A0D	CRANKCASE RS 2.2L	1
4	PB9942N	THRUST BEARING HALF	2
5	PB9942N	THRUST BEARING HALF	2
6	PG0095N	BEARING SHEEL (SET PB0095N)	12
7	PG9872N	SEAL 55 x 72 x 8	1
8	4738092	2200 CAMSHAFT	1
9	4347054	DOWEL CRANK CASE 2.2L	5
10	BS112	ORING BS112	10
11	PH9912N	WELSH PLUG 28 DIA	1
12	PH0646N	WELSH PLUG 7/8" DIA	1
13	4292044	STUD SHORT- BARREL (6L)	4
14	4293044	STUD CRANKCASE FRONT (2.2L)	4
15	4291044	STUD LONG - BARREL (2.2L)	6
16	MS21042	NUT REDUCED WEIGHT	18
17	4956024	SEAL HOUSING FRONT 5/16 MOUNTING	1
18	PH0555N	5/16" x 3/4" UNC CAP SCREW	4
19	4A211A0D	MODIFIED HYDRAULIC LIFTER	8
23	4A080A0D	ADAPTOR PUSHROD TUBE	8
24	FG4A025N	O-RING (BS119V)	8
25	PG10042N	BS114V O RING	8



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CRANKCASE PARTS BOOK ASSEMBLY

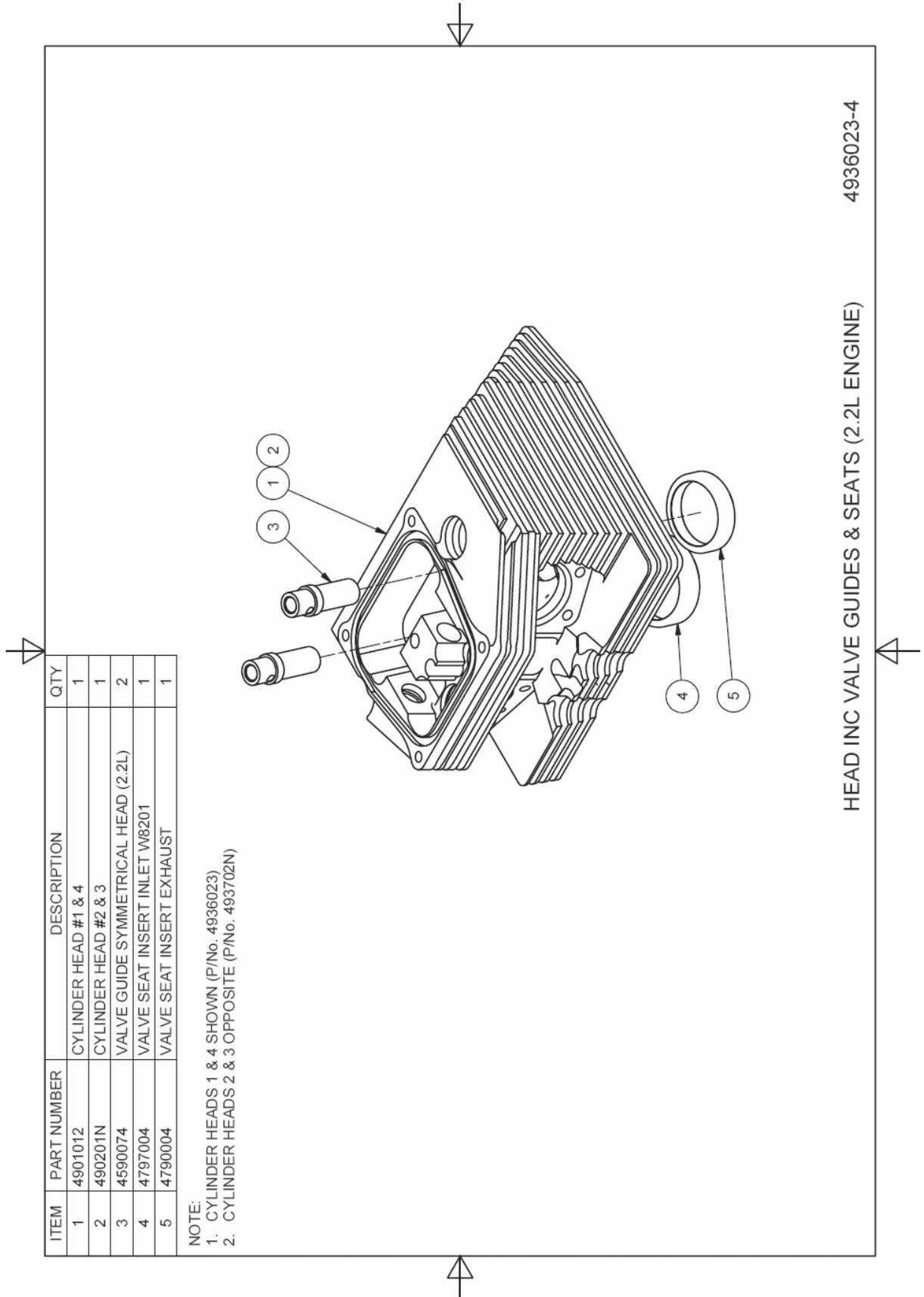
Figure 1 – Crankcase and Crank Assy



Parts List			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	4938023	HEAD INC VALVE GUIDES & SEATS (2.2L ENGINE)	1
2	4A087A0D	ROCKER ARM #1 FRONT NO ADJUSTER	1
3	4A088A0N	ROCKER ARM REAR #1 NO ADJUSTER	1
4	4A086A0D	TOP SPRING WASHER SMALL ID SPRING	2
5	PG71C24	BOTTOM SPRING WASHER - #14779-ZE2-010	2
6	4594074	ROCKER SHAFT - SYM HEAD (2.2L)	1
7	PG121415F	BUSH - ROCKER SHAFT	2
8	4595074	INLET VALVE DIA 41 SYM HEAD (2.2L)	1
9	4596074	EXHAUST VALVE DIA 33 SYM HEAD (2.2L)	1
10	4686094	LUBE PIPE SYMMETRIC HEAD	1
11	4605074	VALVE COLLET - MULTI GROOVE STEM	4
12	PG10042N	BS114V O RING	2
13	PG4A010A0D	VALVE SPRING - HYD LIFTERS	2
14	PH0515N	CIRCLIP INT DIA 20	2
15	RS9452	VITON O RING 12 X 2	2

CYLINDER HEAD ASSY 2.2L, HYD LIFTERS. 4A108A0D

Figure 2 – Cylinder Head Assy



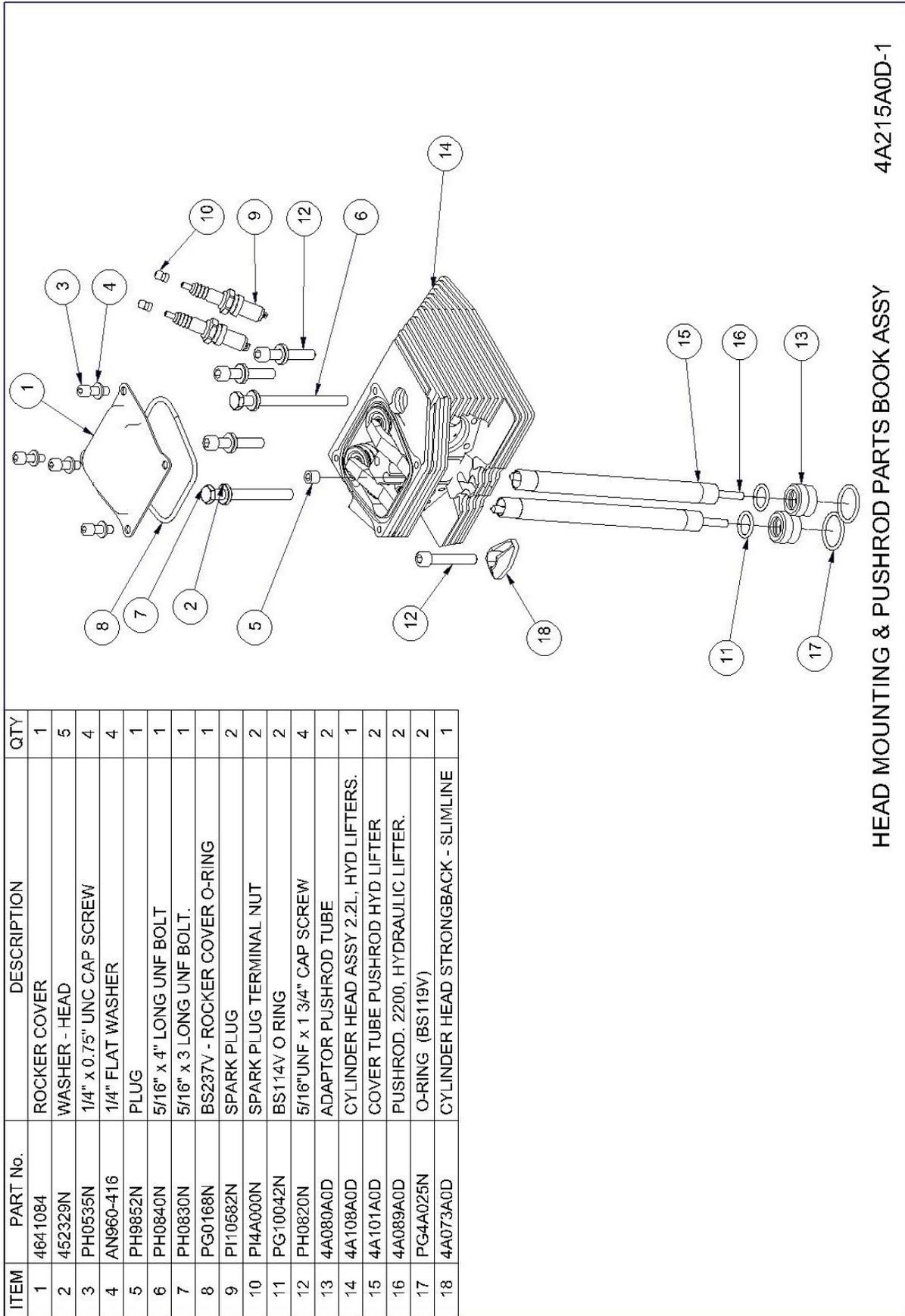
ITEM	PART NUMBER	DESCRIPTION	QTY
1	4901012	CYLINDER HEAD #1 & 4	1
2	490201N	CYLINDER HEAD #2 & 3	1
3	4590074	VALVE GUIDE SYMMETRICAL HEAD (2.2L)	2
4	4797004	VALVE SEAT INSERT INLET W8201	1
5	4790004	VALVE SEAT INSERT EXHAUST	1

NOTE:  
 1. CYLINDER HEADS 1 & 4 SHOWN (P/No. 4936023)  
 2. CYLINDER HEADS 2 & 3 OPPOSITE (P/No. 493702N)

4936023-4

HEAD INC VALVE GUIDES & SEATS (2.2L ENGINE)

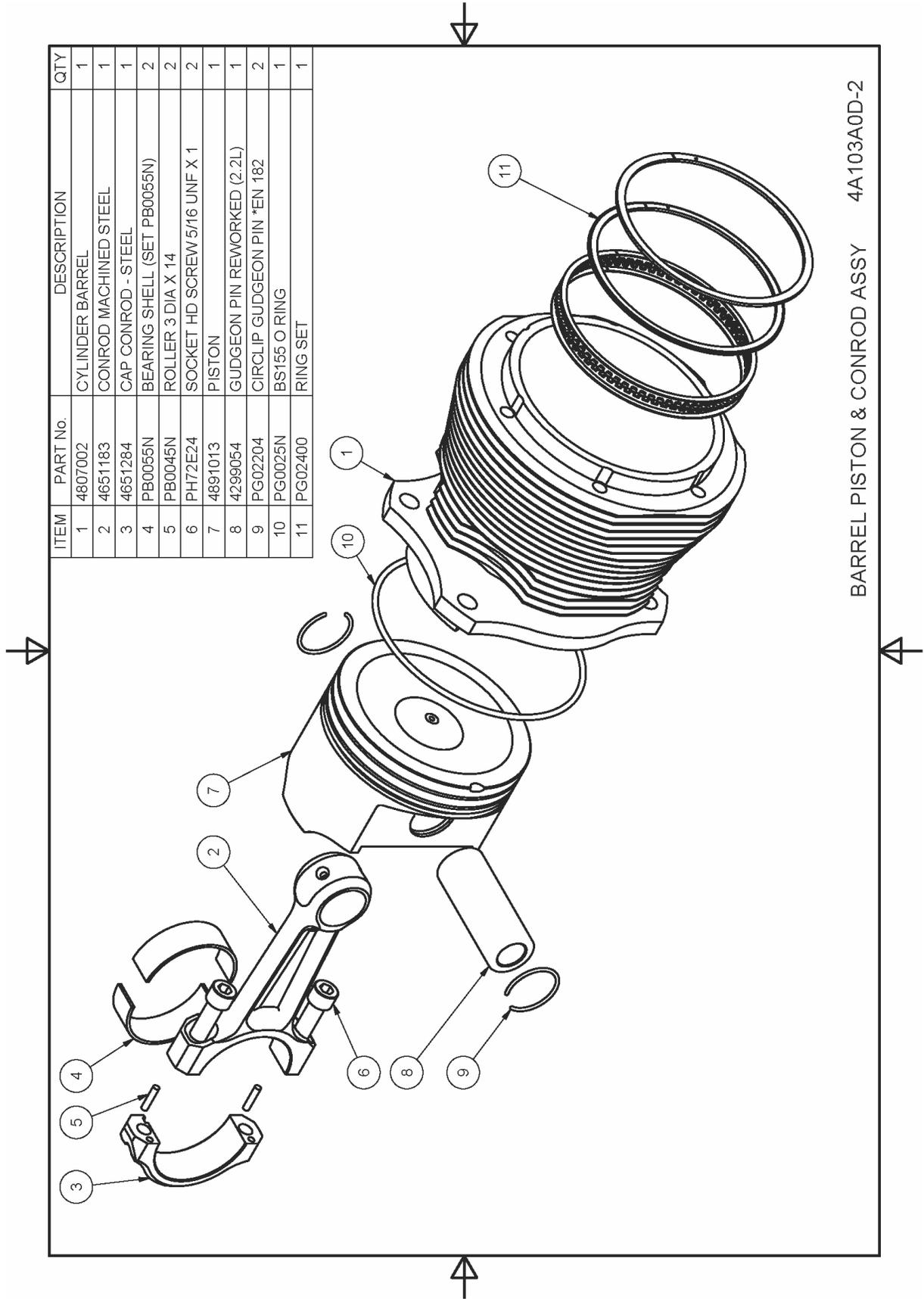
Figure 3 – Head Assy Including Valve Guides & Seats



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HEAD MOUNTING & PUSHROD PARTS BOOK ASSY

Figure 4 – Head Mounting & Pushrod Assy



BARREL PISTON & CONROD ASSY 4A103A0D-2

Figure 5 – Barrel, Piston & Conrod Assy

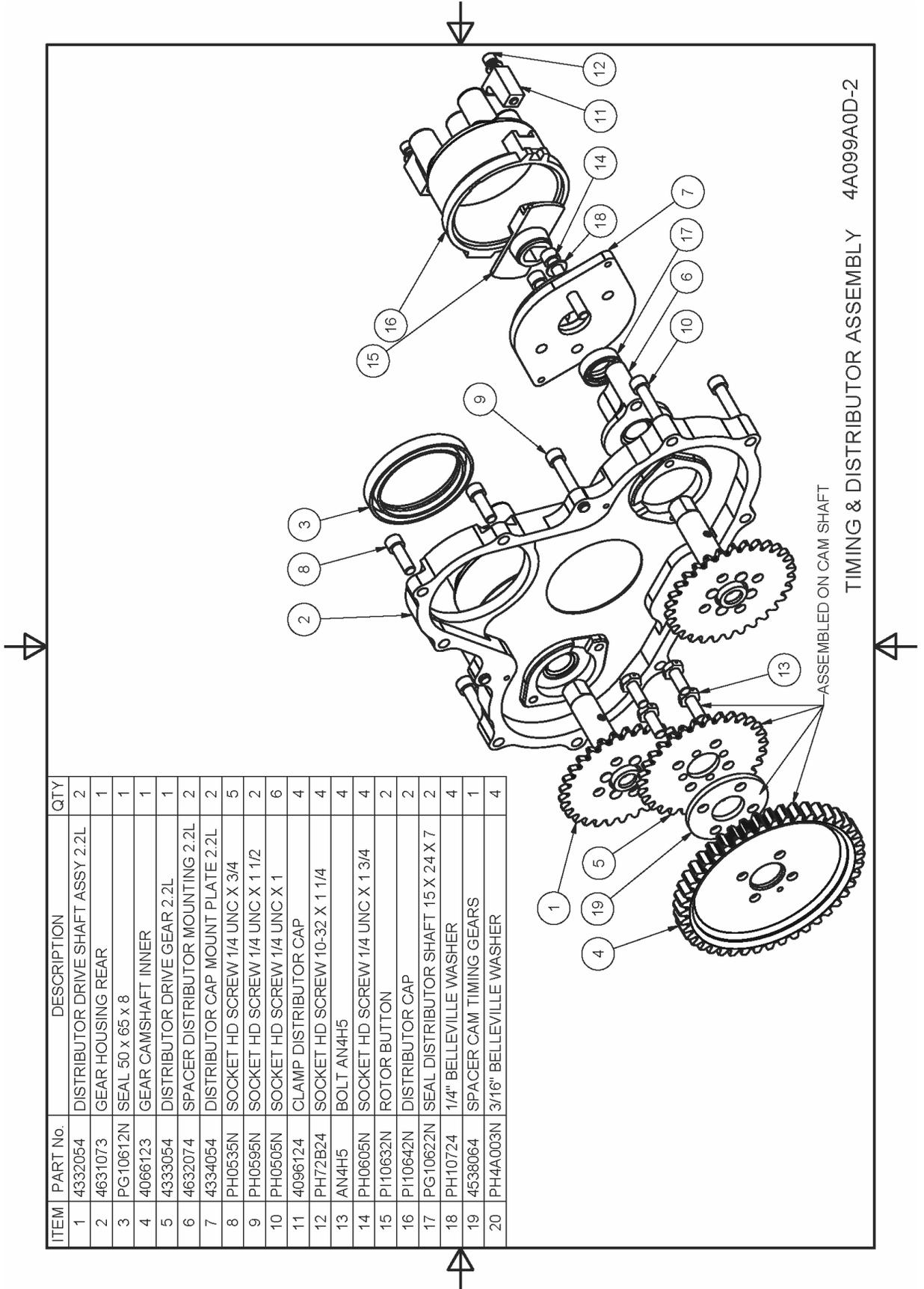
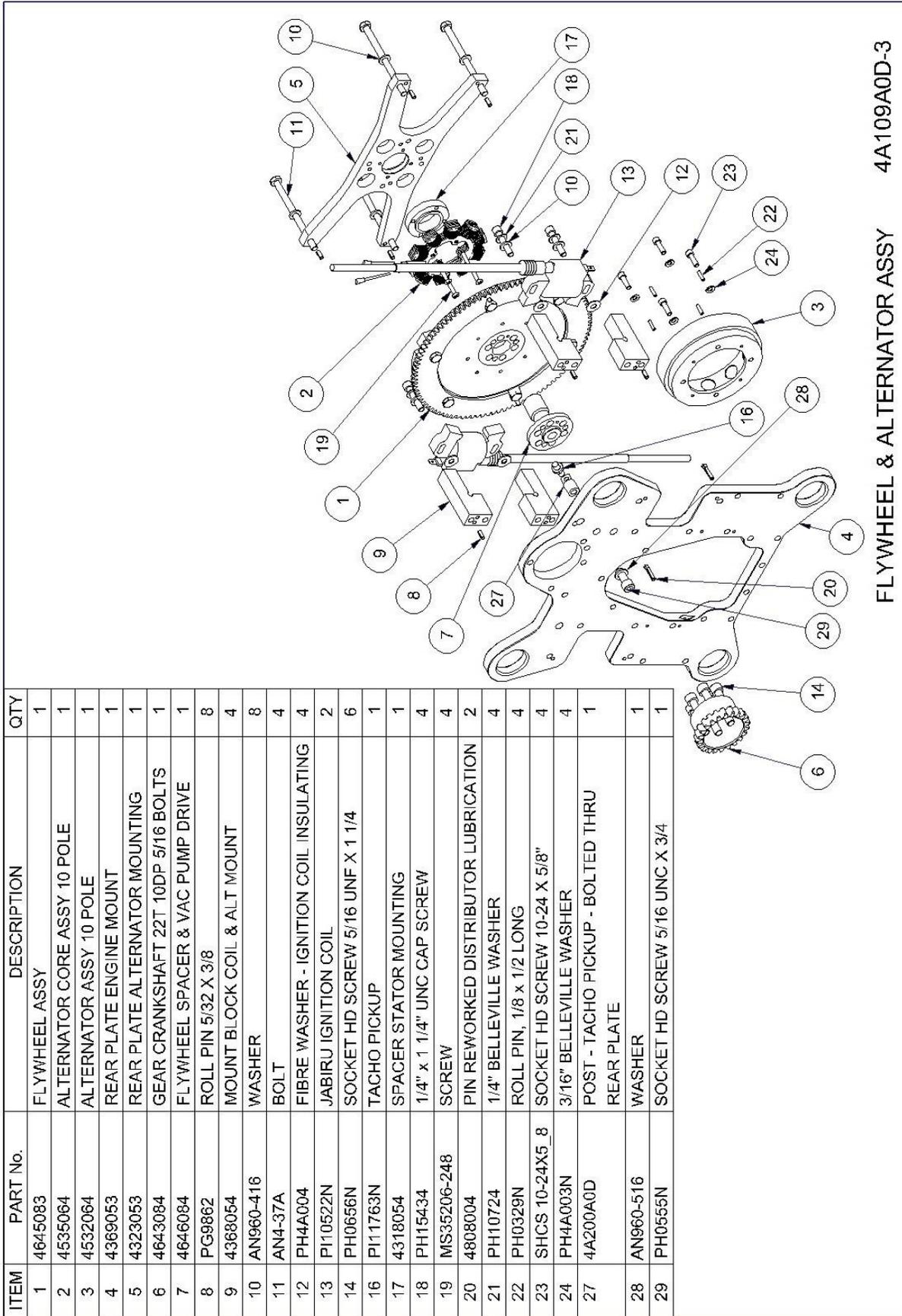
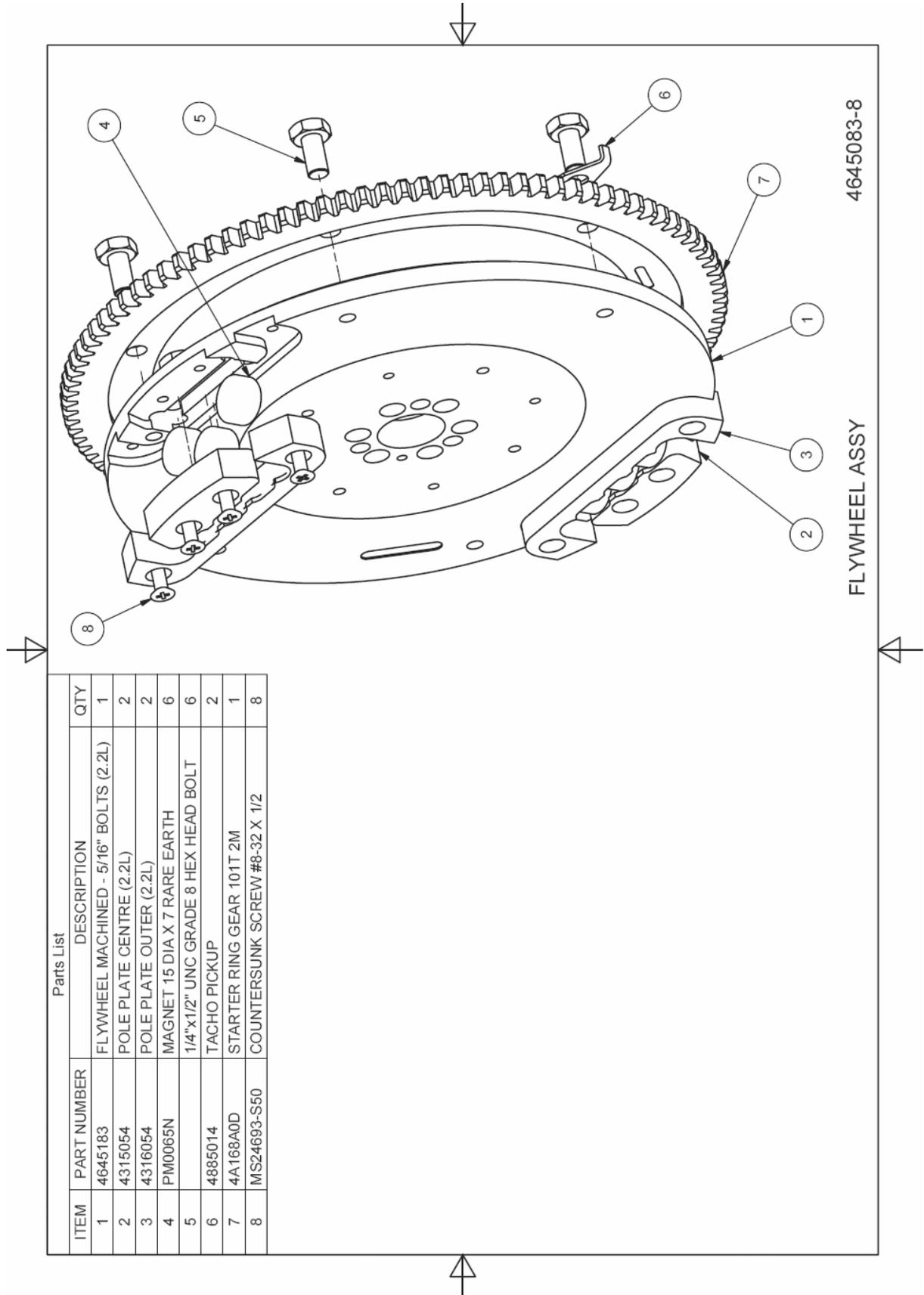


Figure 6 – Timing & Distributor Assy



FLYWHEEL & ALTERNATOR ASSY 4A109A0D-3

Figure 7 –Rear Plate & Flywheel Assy



Parts List			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	4645183	FLYWHEEL MACHINED - 5/16" BOLTS (2.2L)	1
2	4315054	POLE PLATE CENTRE (2.2L)	2
3	4316054	POLE PLATE OUTER (2.2L)	2
4	PM0065N	MAGNET 15 DIA X 7 RARE EARTH	6
5		1/4"x1/2" UNC GRADE 8 HEX HEAD BOLT	6
6	4885014	TACHO PICKUP	2
7	4A168A0D	STARTER RING GEAR 101T 2M	1
8	MS24693-S50	COUNTERSUNK SCREW #8-32 X 1/2	8

Figure 8 – Flywheel Assy

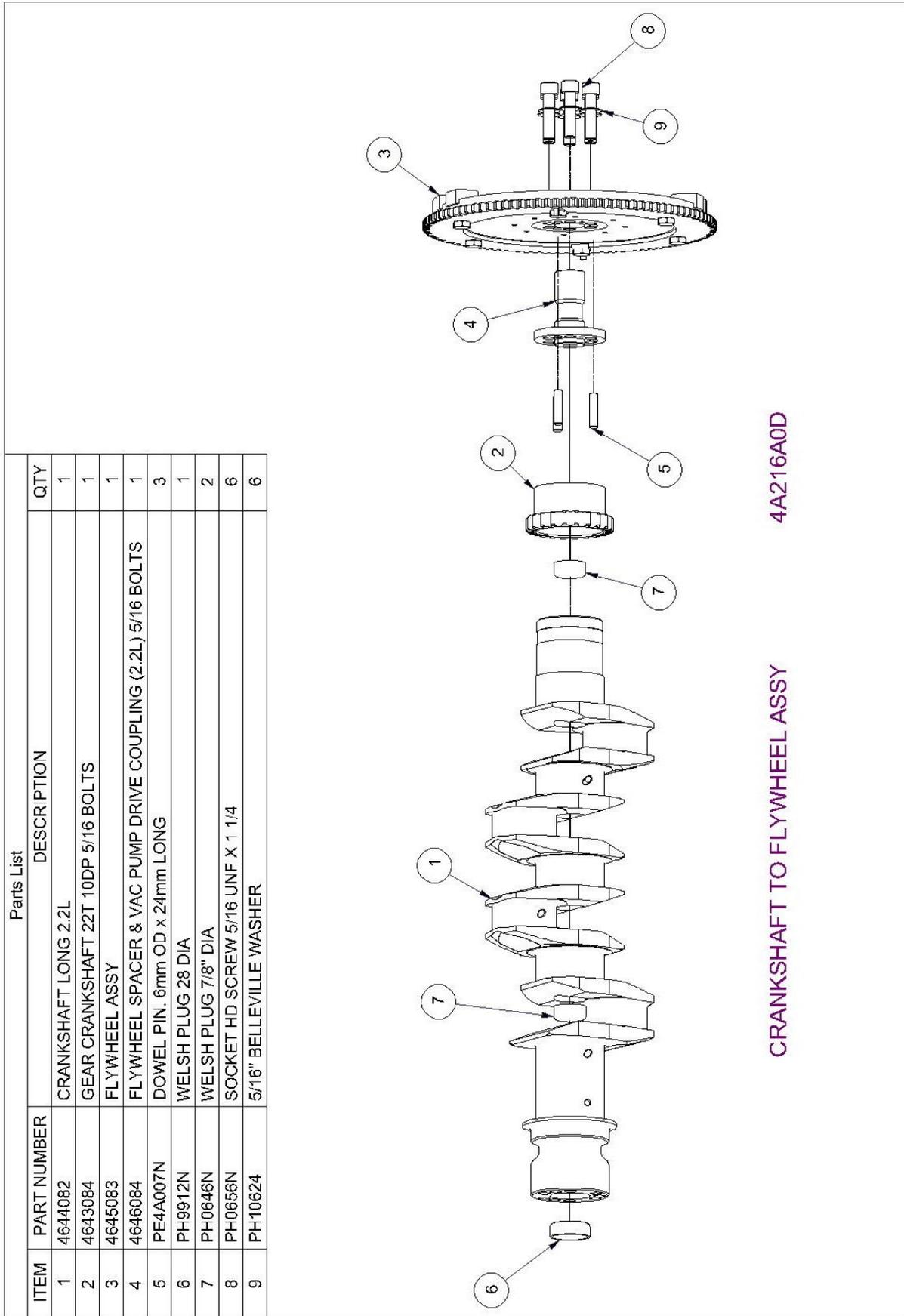
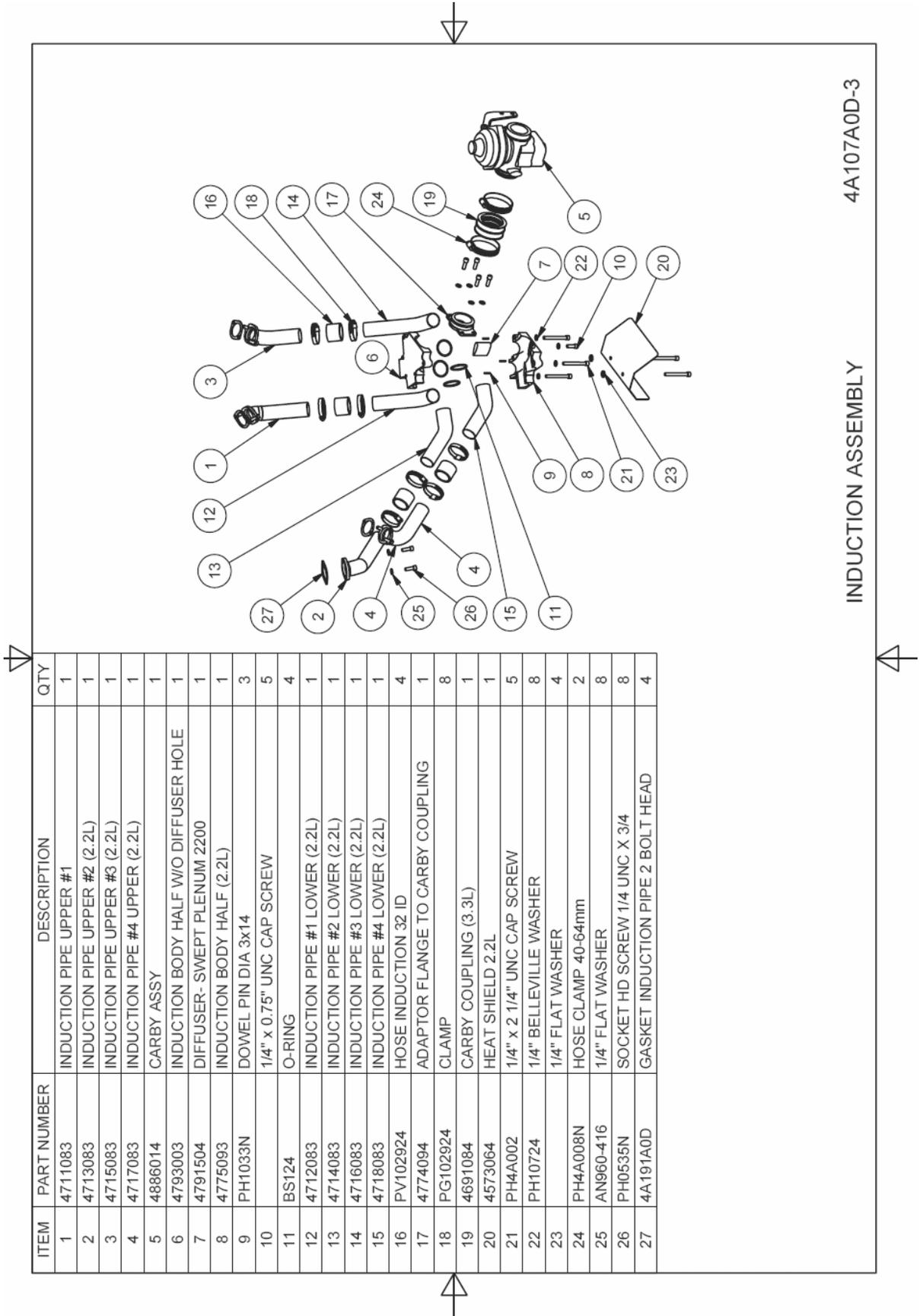


Figure 9 - Crankshaft to Flywheel Assy

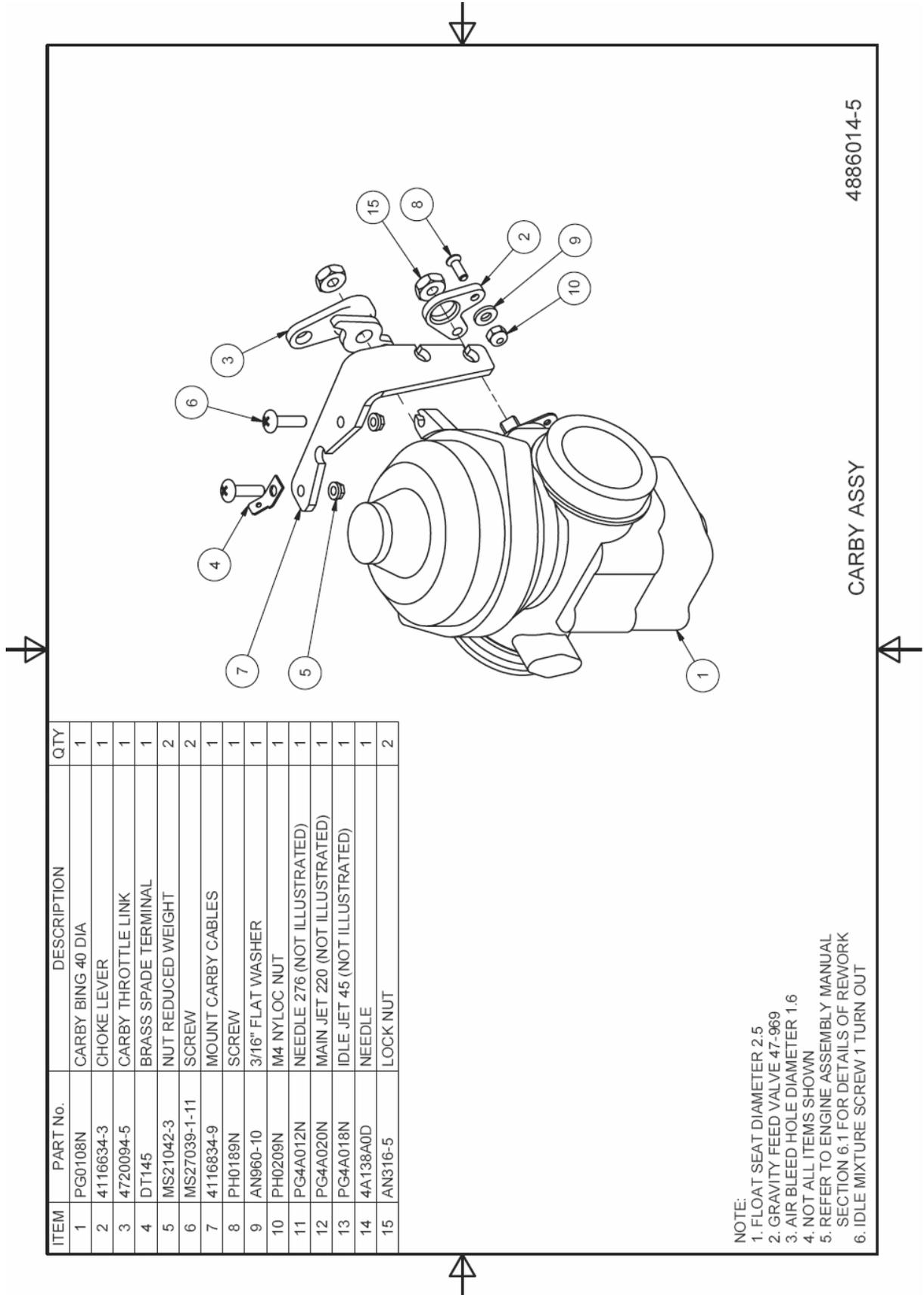


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INDUCTION ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	4711083	INDUCTION PIPE UPPER #1	1
2	4713083	INDUCTION PIPE UPPER #2 (2.2L)	1
3	4715083	INDUCTION PIPE UPPER #3 (2.2L)	1
4	4717083	INDUCTION PIPE #4 UPPER (2.2L)	1
5	4886014	CARBY ASSY	1
6	4793003	INDUCTION BODY HALF W/O DIFFUSER HOLE	1
7	4791504	DIFFUSER- SWEEP PLENUM 2200	1
8	4775093	INDUCTION BODY HALF (2.2L)	1
9	PH1033N	DOWEL PIN DIA 3x14	3
10		1/4" x 0.75" UNC CAP SCREW	5
11	BS124	O-RING	4
12	4712083	INDUCTION PIPE #1 LOWER (2.2L)	1
13	4714083	INDUCTION PIPE #2 LOWER (2.2L)	1
14	4716083	INDUCTION PIPE #3 LOWER (2.2L)	1
15	4718083	INDUCTION PIPE #4 LOWER (2.2L)	1
16	PV102924	HOSE INDUCTION 32 ID	4
17	4774094	ADAPTOR FLANGE TO CARBY COUPLING	1
18	PG102924	CLAMP	8
19	4691084	CARBY COUPLING (3.3L)	1
20	4573064	HEAT SHIELD 2.2L	1
21	PH4A002	1/4" x 2 1/4" UNC CAP SCREW	5
22	PH10724	1/4" BELLEVILLE WASHER	8
23		1/4" FLAT WASHER	4
24	PH4A008N	HOSE CLAMP 40-64mm	2
25	AN960-416	1/4" FLAT WASHER	8
26	PH0535N	SOCKET HD SCREW 1/4 UNC X 3/4	8
27	4A191A0D	GASKET INDUCTION PIPE 2 BOLT HEAD	4

Figure 10 – Induction System Assy



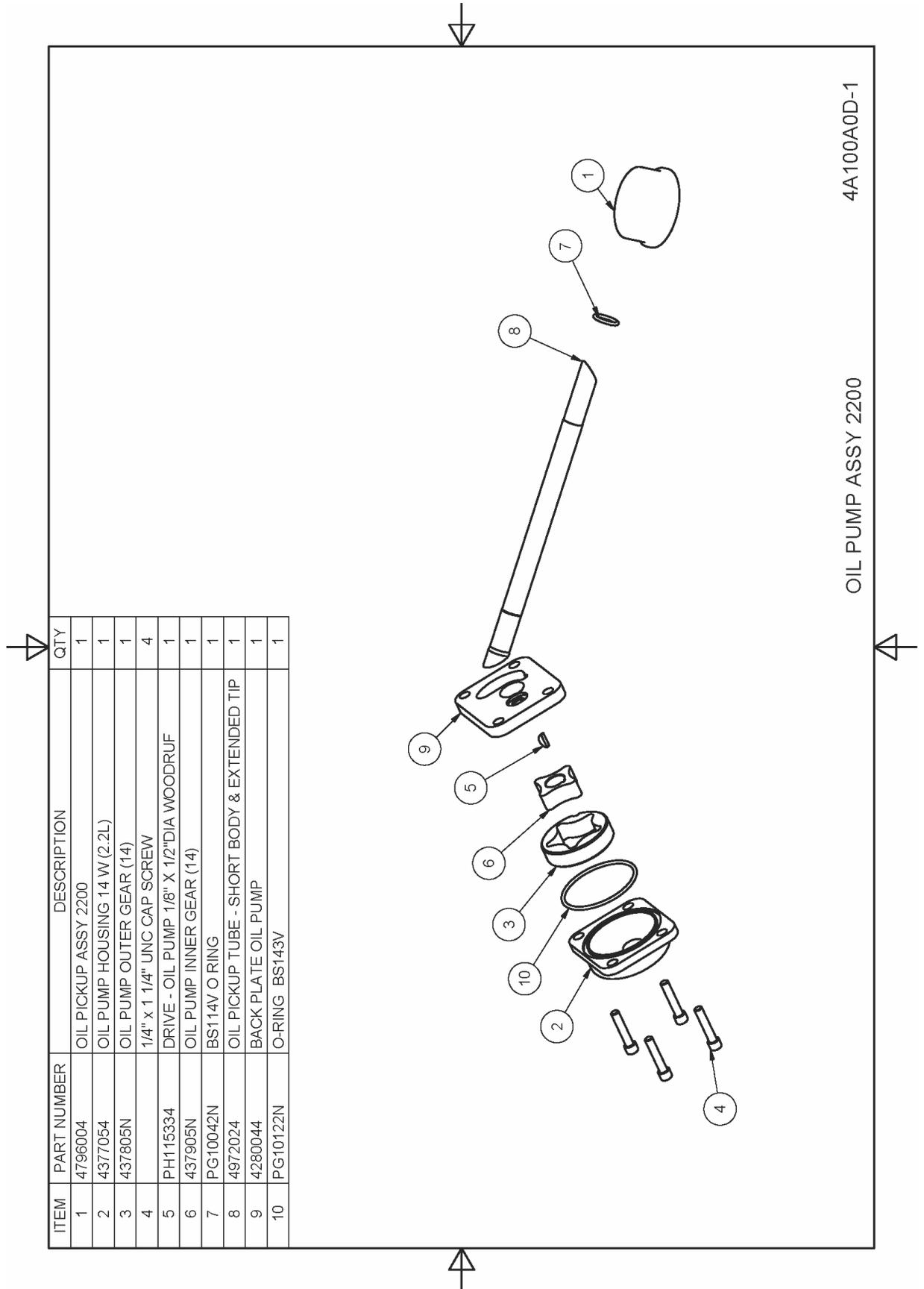
4886014-5

CARBY ASSY

ITEM	PART No.	DESCRIPTION	QTY
1	PG0108N	CARBY BING 40 DIA	1
2	4116634-3	CHOKE LEVER	1
3	4720094-5	CARBY THROTTLE LINK	1
4	DT145	BRASS SPADE TERMINAL	1
5	MS21042-3	NUT REDUCED WEIGHT	2
6	MS27039-1-11	SCREW	2
7	4116634-9	MOUNT CARBY CABLES	1
8	PH0189N	SCREW	1
9	AN960-10	3/16" FLAT WASHER	1
10	PH0209N	M4 NYLOC NUT	1
11	PG4A012N	NEEDLE 276 (NOT ILLUSTRATED)	1
12	PG4A020N	MAIN JET 220 (NOT ILLUSTRATED)	1
13	PG4A018N	IDLE JET 45 (NOT ILLUSTRATED)	1
14	4A138A0D	NEEDLE	1
15	AN316-5	LOCK NUT	2

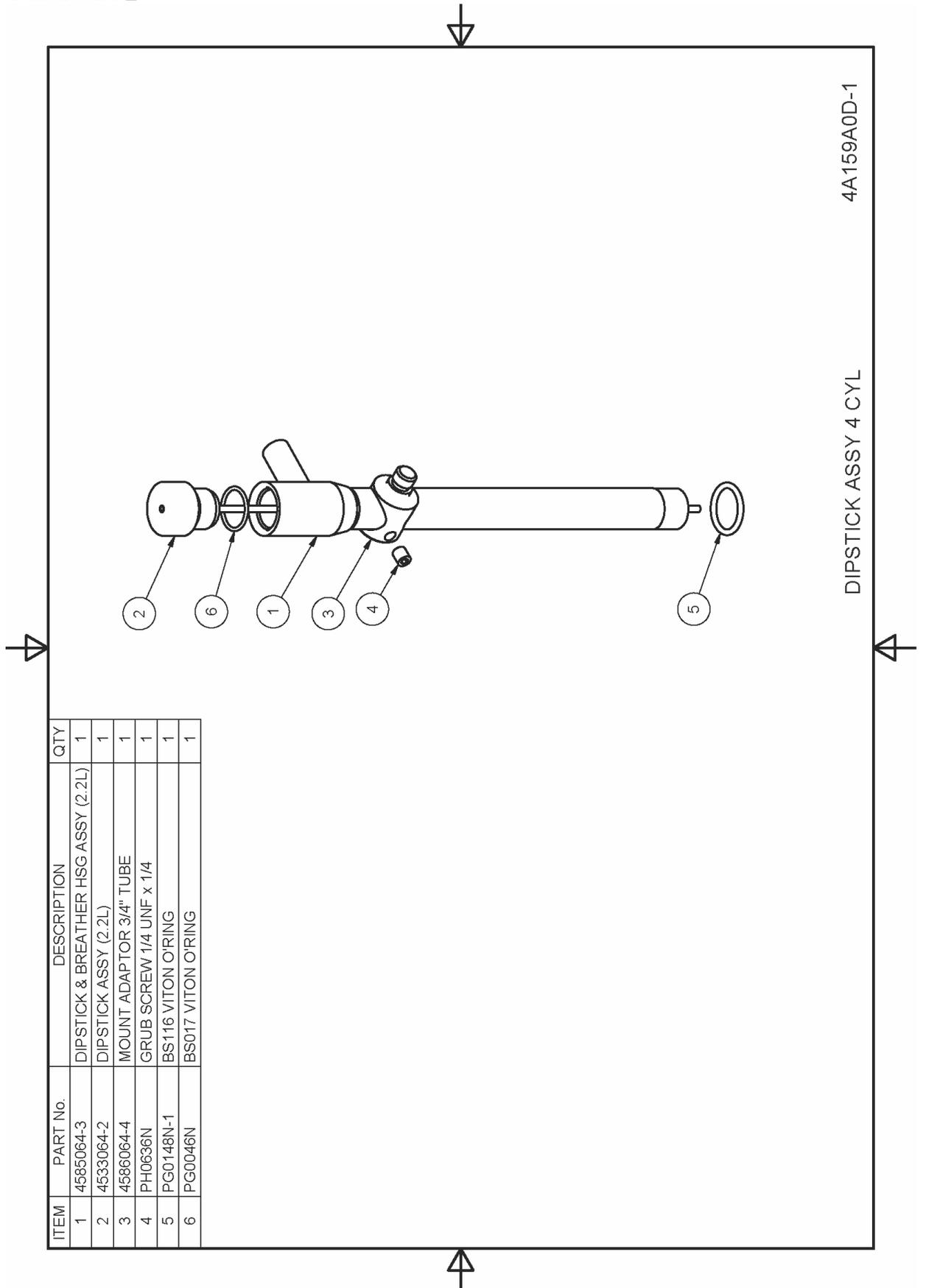
NOTE:  
 1. FLOAT SEAT DIAMETER 2.5  
 2. GRAVITY FEED VALVE 47-969  
 3. AIR BLEED HOLE DIAMETER 1.6  
 4. NOT ALL ITEMS SHOWN  
 5. REFER TO ENGINE ASSEMBLY MANUAL SECTION 6.1 FOR DETAILS OF REWORK  
 6. IDLE MIXTURE SCREW 1 TURN OUT

Figure 11 – Carburetor Assy



ITEM	PART NUMBER	DESCRIPTION	QTY
1	4796004	OIL PICKUP ASSY 2200	1
2	4377054	OIL PUMP HOUSING 14 W (2.2L)	1
3	437805N	OIL PUMP OUTER GEAR (14)	1
4		1/4" x 1 1/4" UNC CAP SCREW	4
5	PH115334	DRIVE - OIL PUMP 1/8" X 1/2"DIA WOODRUF	1
6	437905N	OIL PUMP INNER GEAR (14)	1
7	PG10042N	BS114V O RING	1
8	4972024	OIL PICKUP TUBE - SHORT BODY & EXTENDED TIP	1
9	4280044	BACK PLATE OIL PUMP	1
10	PG10122N	O-RING BS143V	1

Figure 12 - Oil Pump Assy

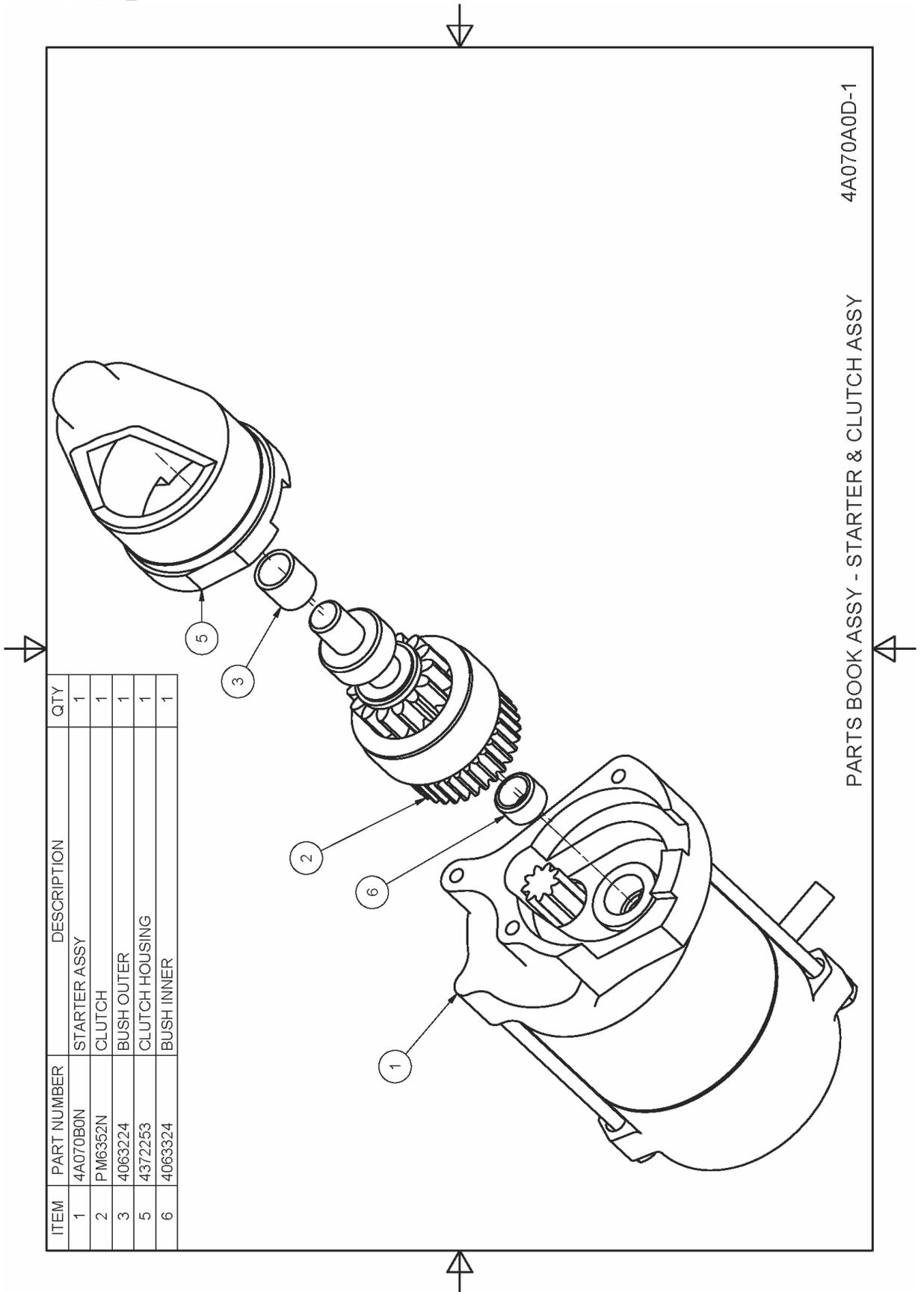


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DIPSTICK ASSY 4 CYL

ITEM	PART No.	DESCRIPTION	QTY
1	4585064-3	DIPSTICK & BREATHER HSG ASSY (2.2L)	1
2	4533064-2	DIPSTICK ASSY (2.2L)	1
3	4586064-4	MOUNT ADAPTOR 3/4" TUBE	1
4	PH0636N	GRUB SCREW 1/4 UNF x 1/4	1
5	PG0148N-1	BS116 VITON O'RING	1
6	PG0046N	BS017 VITON O'RING	1

Figure 13 - Dipstick Assy



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PARTS BOOK ASSY - STARTER & CLUTCH ASSY

Figure 14 - Starter Assy

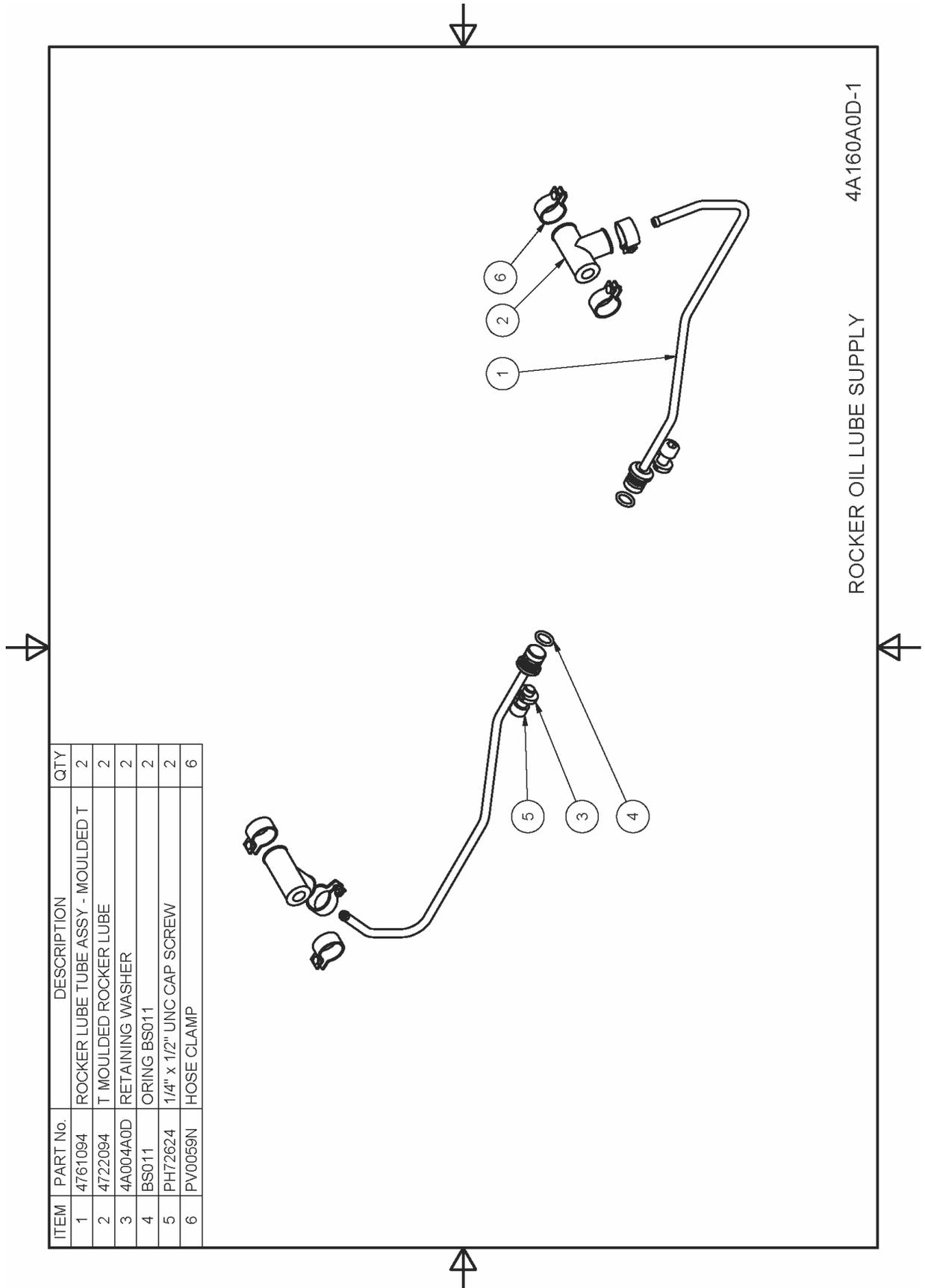


Figure 15 - Rocker Oil Lube Supply

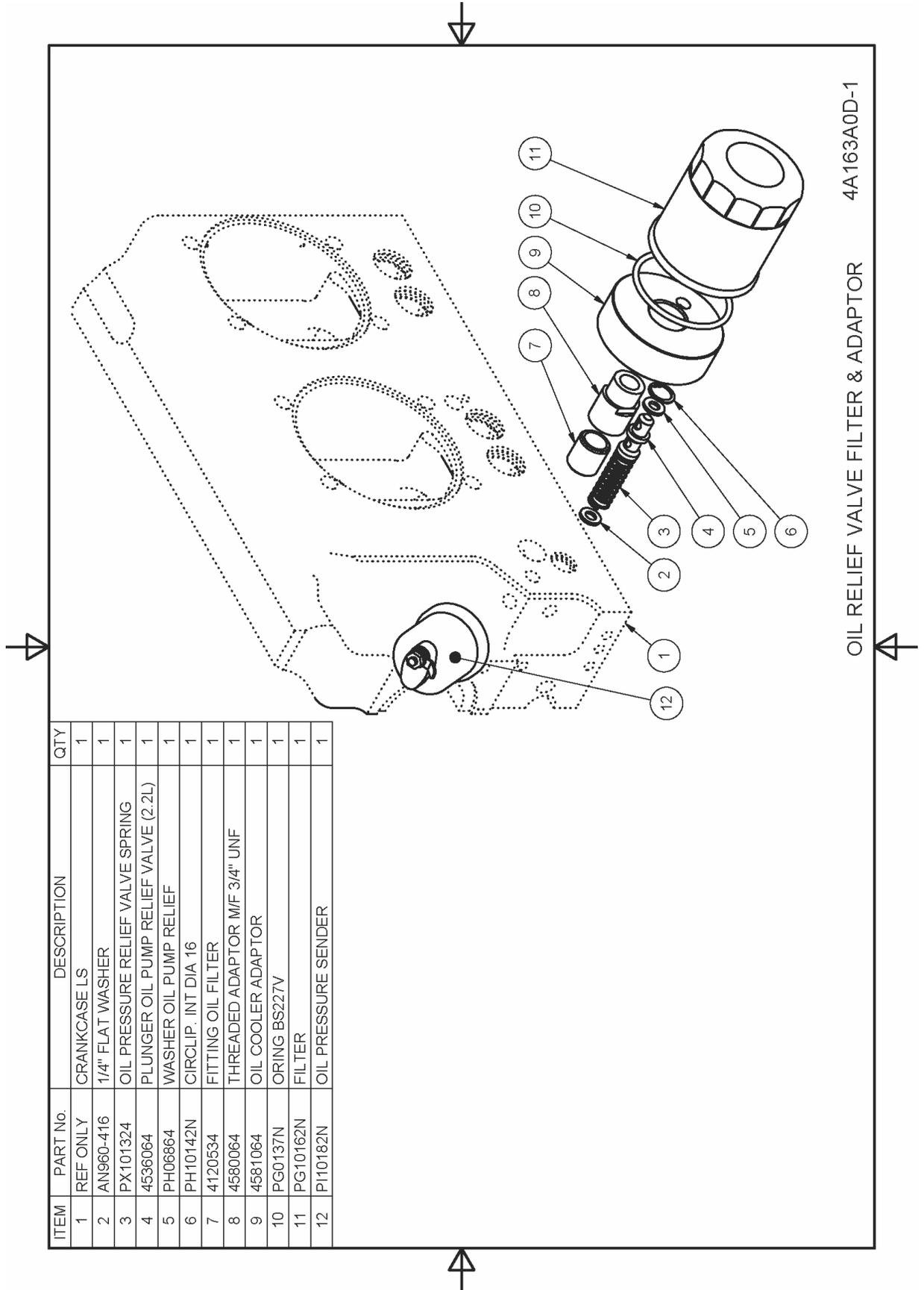


Figure 16 - Oil Relief Valve, Filter & Adapter

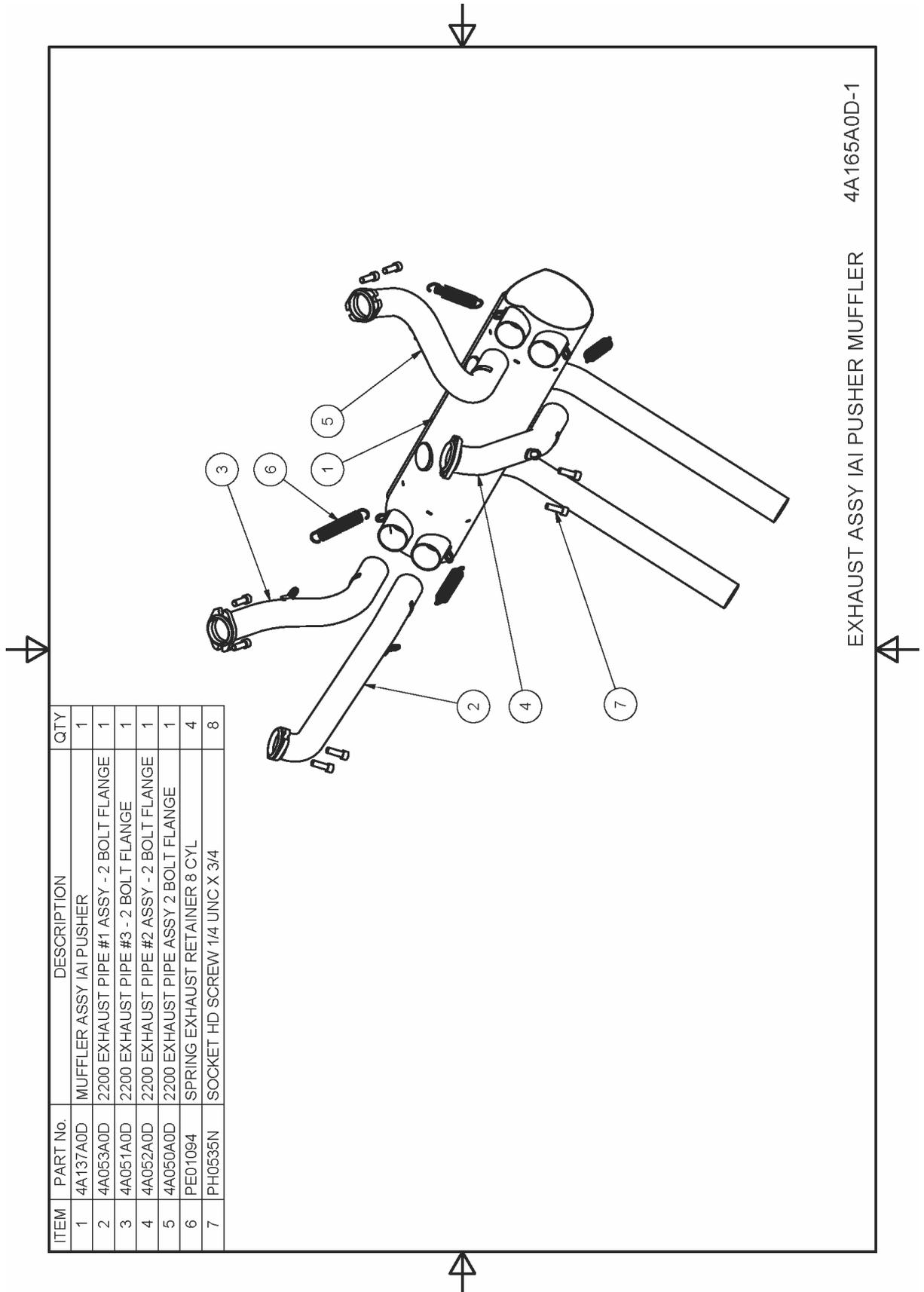


Figure 17 - Exhaust Assy

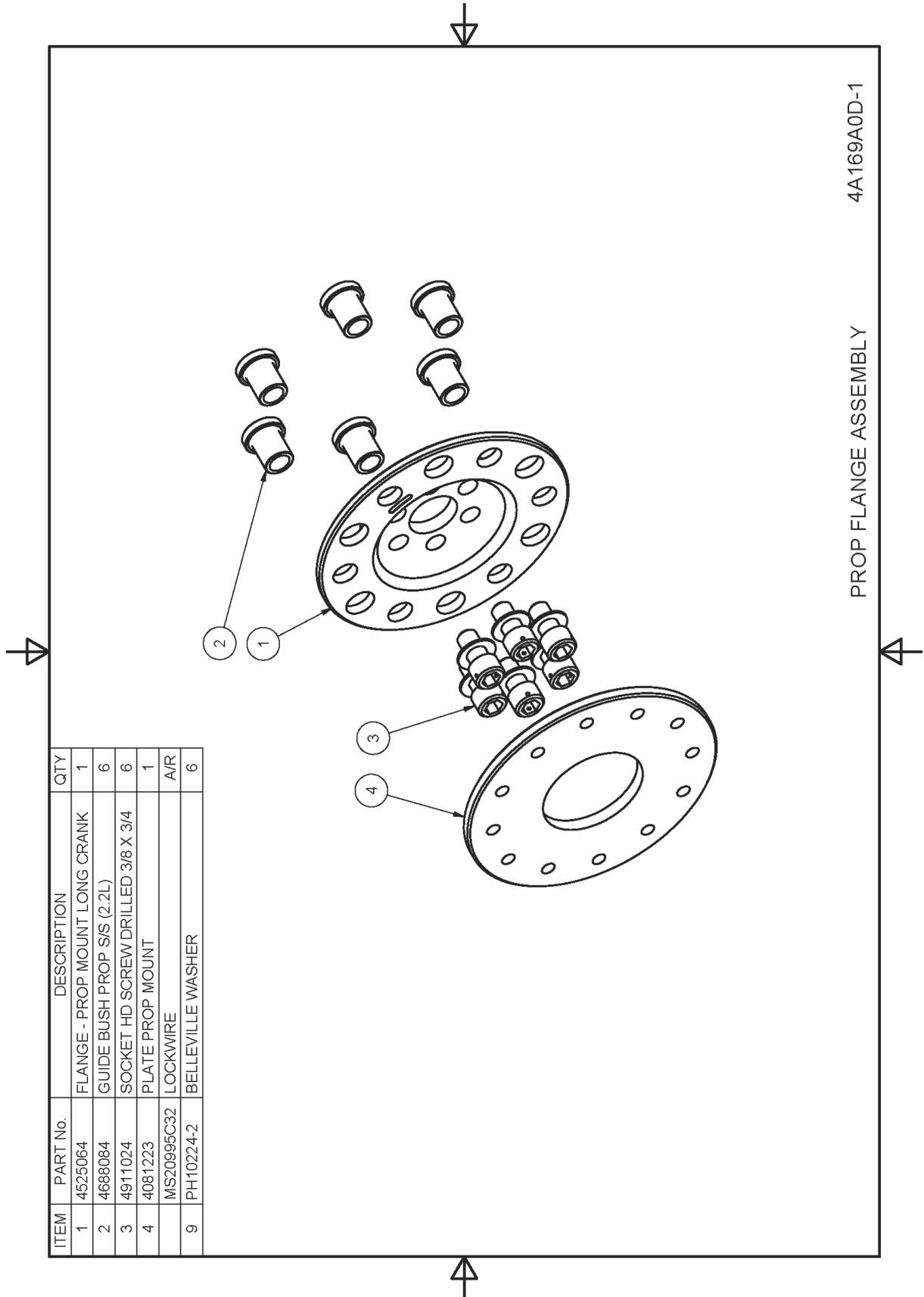


Figure 18 - Propeller Flange Assy

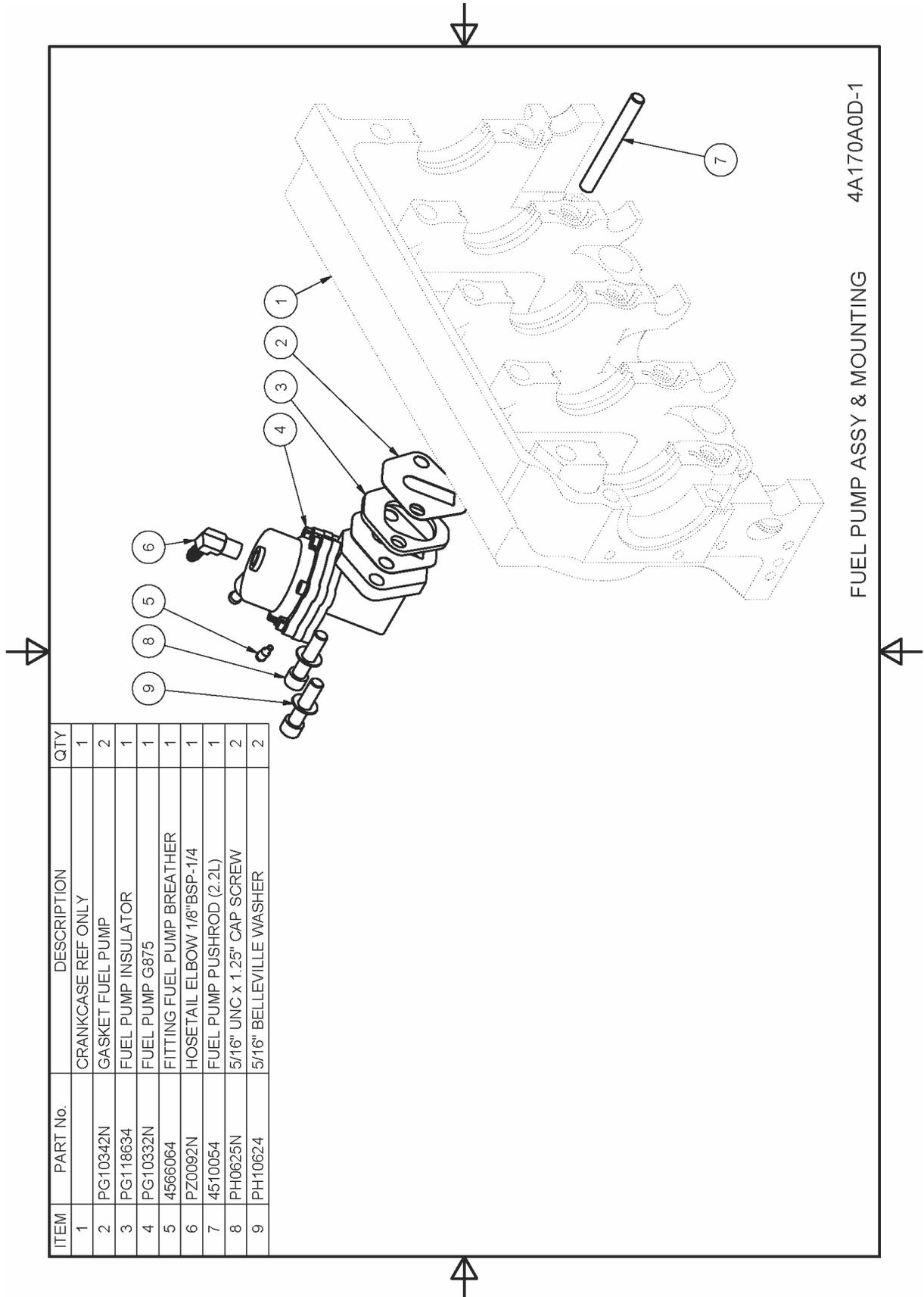


Figure 19 - Fuel Pump Assy

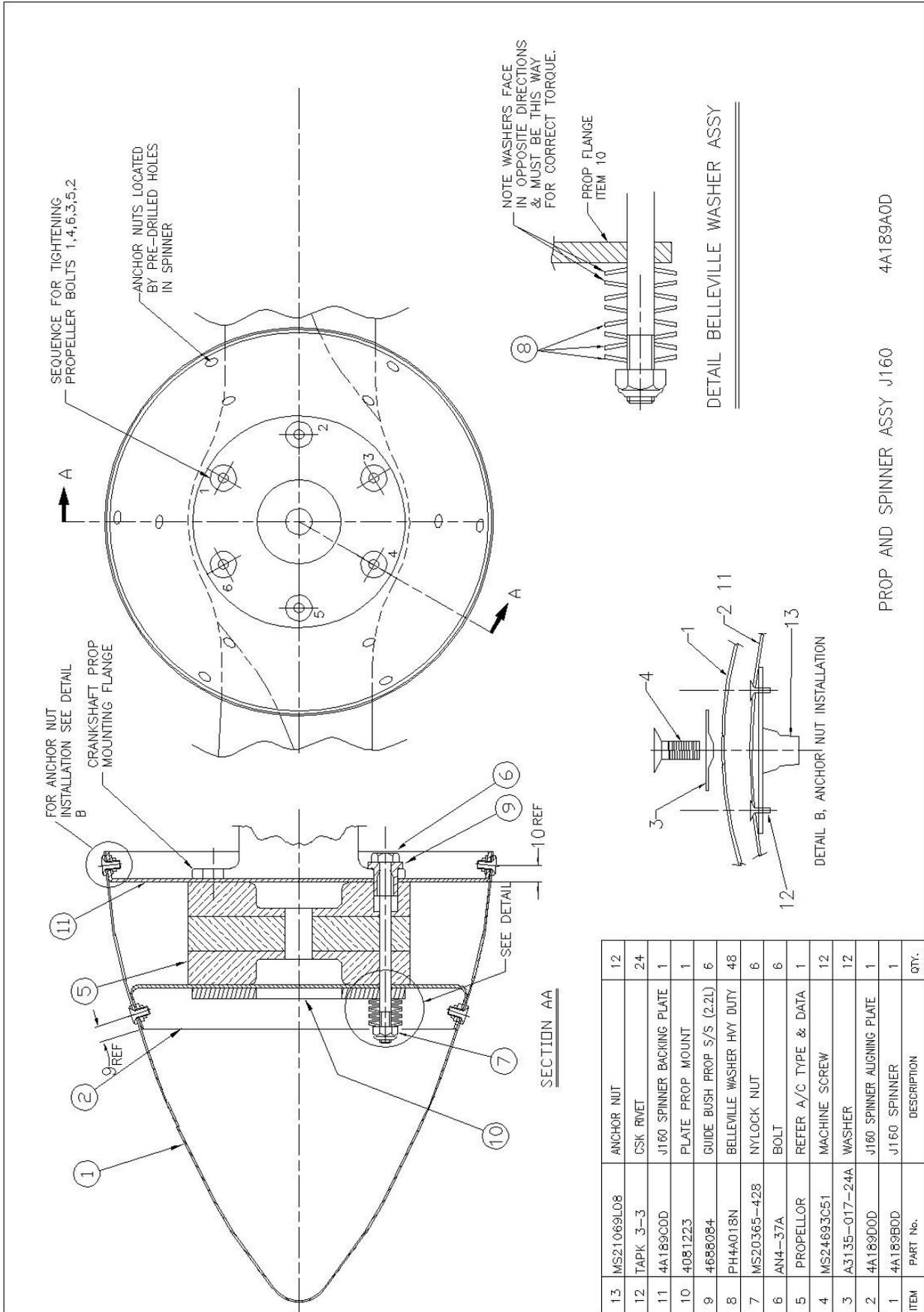


Figure 20 – Propeller Installation (3 Laminate Propeller, Large Spinner)