

JABIRU ENGINE PARTS BOOK



3300 SERIES

HYDRAULIC LIFTER TYPE

Applicable to Jabiru 3300 Models from S/N 33A961 onwards (including 33A927, 33A928, 33A947, 33A948, 33A949, 33A950)

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 Web: <u>www.jabiru.net.au</u>

Revised November 2011



Please fill in your engine and aircraft details for future reference.

Engine Serial #:	
Aircraft Type:	
Model:	
Serial #:	
Registration #:	

Note:

- 1. Not all parts are illustrated
- 2. All efforts are made to ensure accuracy at the time of publication, if you find any discrepancies, or have any questions about the contents of this publication please contact Jabiru Aircraft Pty Ltd.
- 3. All quantities are per engine unless stated otherwise.
- 4. When ordering parts always quote engine serial number and any upgrades carried out on the engine, as well as item number, part number, description, page number and issue number. This complete information will ensure Jabiru Aircraft Pty Ltd supply the correct part.



Engine Parts Catalogue Index

Figure 1 – Drawing 94/9083 Crank & Crankcase Assy	5
Figure 2 – Drawing 4A635A0D Crank & Crankcase Assy 7/16 Studs	6
Figure 3 – Drawing 4A254A0D Cylinder Head Assy up to S/N 33A2215	7
Figure 4 – Drawing 4A507A0D Cylinder Head Assy Pushrod Oil Feed S/N 33A2216	68
Figure 5 – Drawing 4A255A0D Head Valve Guides & Seats 3.3L up to S/N 33A221	59
Figure 6 – Drawing 4A506A0D Head Valve Guides & Seats 3.3L from S/N 33A221	610
Figure 7- Drawing 4A289A0D Valvetrain Assembly up to S/N 33A2215	11
Figure 8– Drawing 4A508A0D Valvetrain Assembly from S/N 33A2216	12
Figure 9 – Drawing 4A103A0D Barrel Piston & Conrod Assembly	13
Figure 10- Drawing 4A287A0D Timing & Distributor Assembly	14
Figure 11 – Drawing 4A163A0D Oil Relief Valve Filter & Adaptor	15
Figure 12 – Drawing 4626073 Flywheel Assembly up to S/N 1521	16
Figure 13 – Drawing 4A427A0D Flywheel Assembly from S/N 1522	17
Figure 14 – Drawing 4A426A0D Flywheel & Crankshaft Assembly from S/N 1522	18
Figure 15 – Drawing 4A292A0D Crank Flywheel & Alternator Assy up to S/N 1521.	19
Figure 16 - Drawing 4A452A0D Flywheel & Alternator Assembly from S/N 1522	20
Figure 17 – Drawing 9491013 Induction System Assy	21
Figure 18 – Drawing 4A541A0D Induction Assy Ser III	22
Figure 19 – Drawing 4A293A0D Exhaust Assembly Tractor	23
Figure 20 – Drawing 9492013 Exhaust Assembly Pusher	24
Figure 21 – Drawing 4A159A0D Dipstick Assembly	25
Figure 22 – Drawing 4933023 Starter Motor Assembly	26
Figure 23 – Drawing 4A290A0D Sump Assembly & Rear Plate	27
Figure 24 – Drawing 4A291A0D Rocker Oil Lube Supply up to S/N 33A2215	28
Figure 25 – Drawing 4A170A0D Fuel Pump Assembly & Mounting	29
Figure 26 – Drawing 4886014 Carburetor Assembly	30
Figure 27 – Drawing 4A288A0D Oil Pump Assembly	31
Figure 28 – Prop Flange Assembly	32
Figure 29: Miscellaneous Electrical	33
Figure 30 Drawing C009013 Propeller Installation (4 Laminate Prop)	34

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



Figure 1: CRANKSHAFT CRANKCASE AND CAMSHAFT

ITEM	PART#	ISS	DESCRIPTION	QTY	
1	4643084		GEAR CRANKSHAFT	1	
2	4292044		STUD SHORT	4	
3	MS21042-6		NUT CRANKCASE STUD	18	
4	4291044		STUD LONG	10	
5	PB0080N		BEARING SET MAIN	1	
6	4629072	9	CRANKSHAFT	1	
	PH9912N		WELSH PLUG 28 DIA	1	
	PH0646N		WELSH PLUG 7/8 DIA	2	
	PH0636N		GRUB SCREW 1/4 X 1/4 UNF	1	
7	4A146A0D		CRANKCASE R.S. 3300 HYDRAULIC LIFTERS up to S/N 33A2215	1	NSS
	4A145A0D		CRANKCASE L.S. 3300 HYDRAULIC LIFTERS up to S/N 33A2215	1	NSS
	4A510A0D		CRANKCASE RS 3300 HYD LIFTER PUSHROD OIL FEED from S/N 33A2216	1	NSS
	4A509A0D		CRANKCASE LS 3300 HYD LIFTER PUSHROD OIL FEED from S/N 33A2216	1	NSS
	PH9852N		PLUG 1/8 NPT	1	
8	4347054		DOWEL CRANKCASE	14	
9	4293044		STUD FRONT	2	
10	PB9942N		THRUST BEARING	2	
11	PH0676N		CAP SCREW 3/4 X 3/8 UNF	6	
12	PH0279N		WASHER	6	
13	4525064		FLANGE PROP MOUNT STANDARD	1	
	466218N		FLANGE PROP MOUNT 2" EXTENSION	1	
	466228N		FLANGE PROP MOUNT 3" EXTENSION	1	
14	4689084		GUIDE PROP BOLT	6	
15	4625072		CAM SHAFT up to S/N 1683	1	
	4A431A0D		CAM SHAFT from S/N 1684 (with identification groove)	1	
16	4956024		HOUSING FRONT OIL SEAL	1	
17	PH0555N		CAP SCREW 3/4 X 5/16 UNC	4	
18	PG9872N		OIL SEAL	1	
19	PG0035N		'O'RING BS112V	10	
20	4081223		PLATE PROP MOUNT	1	

Crankcase halves are not sold separately.



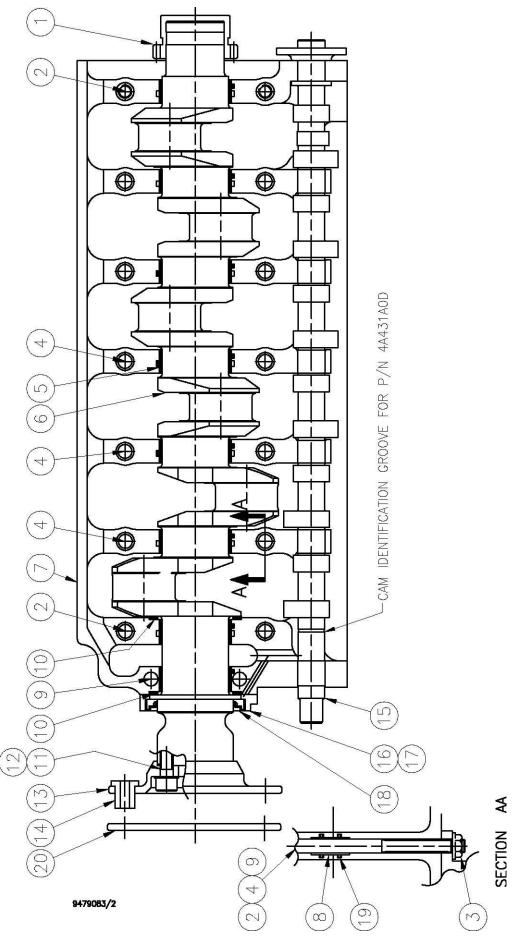


Figure 1 – Drawing 9479083 Crank & Crankcase Assy



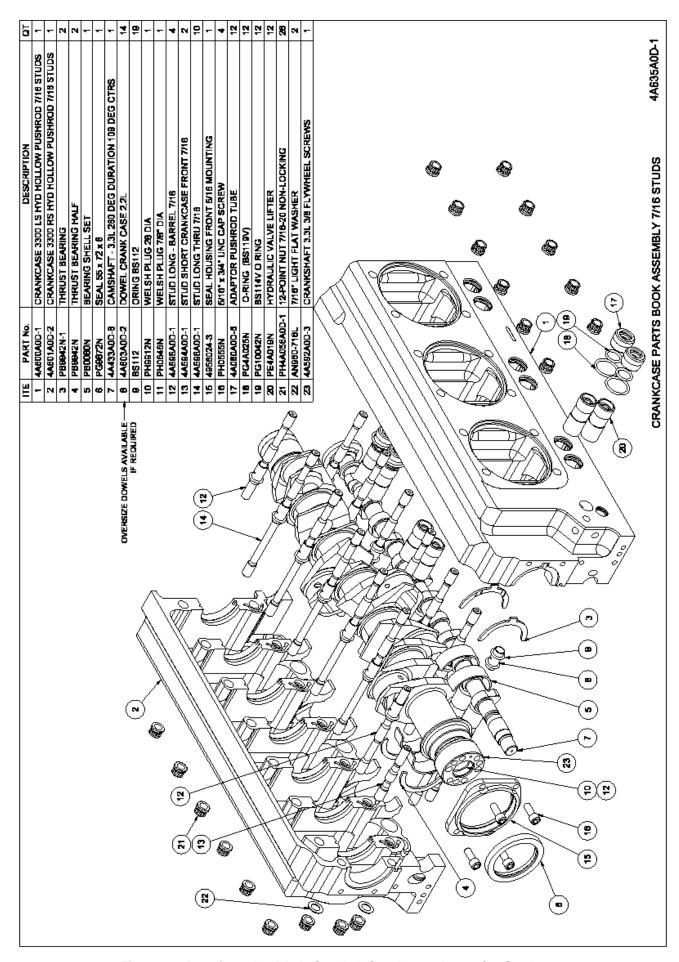


Figure 2 - Drawing 4A635A0D Crank & Crankcase Assy 7/16 Studs



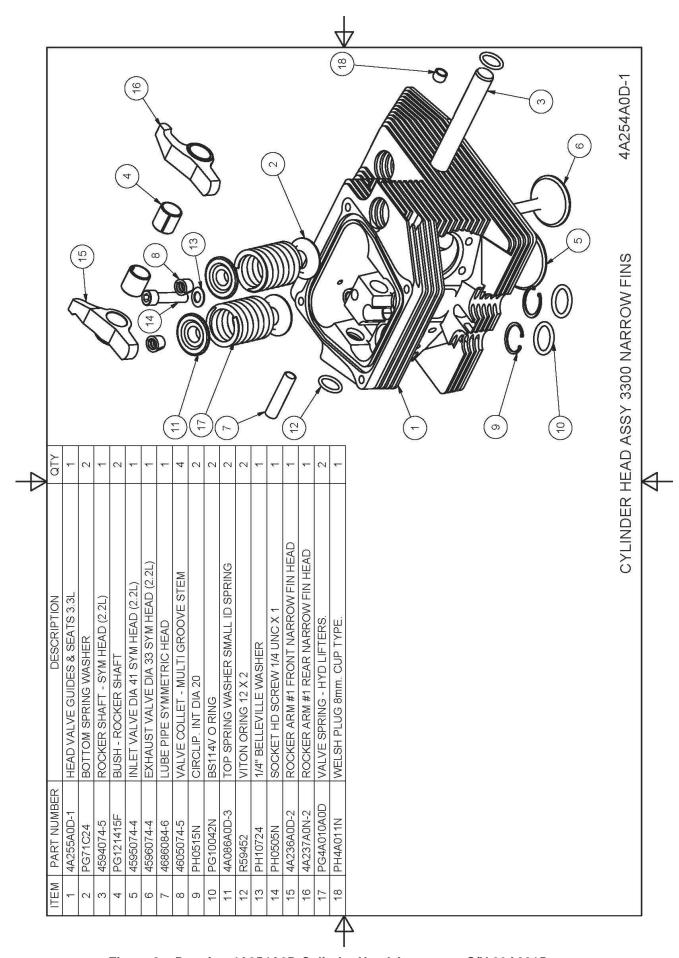


Figure 3 - Drawing 4A254A0D Cylinder Head Assy up to S/N 33A2215



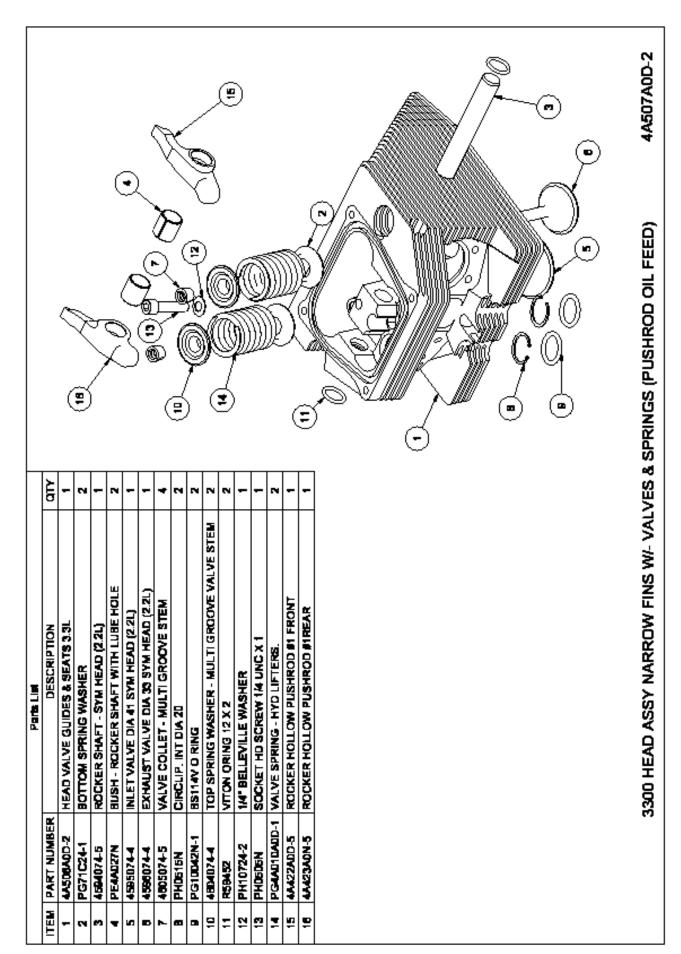


Figure 4 - Drawing 4A507A0D Cylinder Head Assy Pushrod Oil Feed S/N 33A2216-



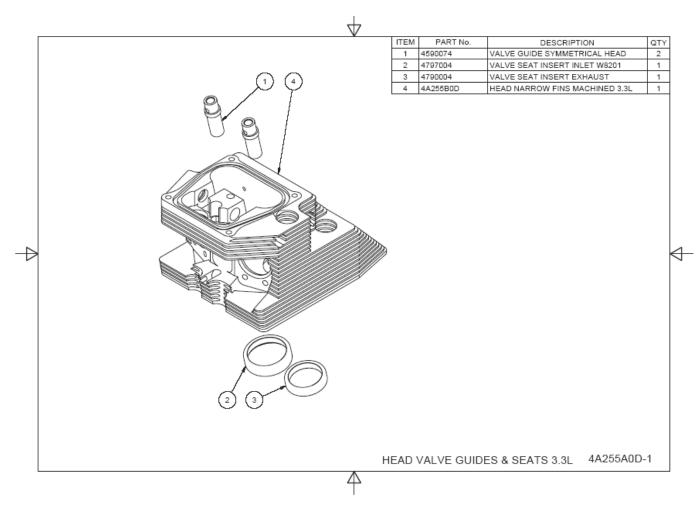


Figure 5 - Drawing 4A255A0D Head Valve Guides & Seats 3.3L up to S/N 33A2215

Note:

Oversize valve guides available, use std P/N & specify 0.05, 0.10, 0.15 Oversize. Identification is by 1, 2 or 3 dimples on exposed diameter when Fitted to assembled head



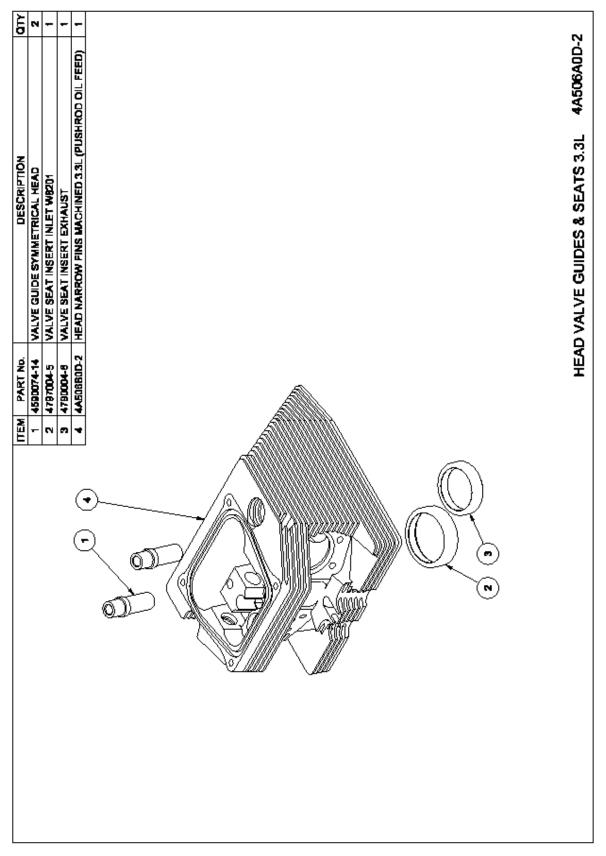


Figure 6 - Drawing 4A506A0D Head Valve Guides & Seats 3.3L from S/N 33A2216

Note: Oversize valve guides available, use std P/N & specify 0.05, 0.10, 0.15 Oversize. Identification is by 1, 2 or 3 dimples on exposed diameter when Fitted to assembled head



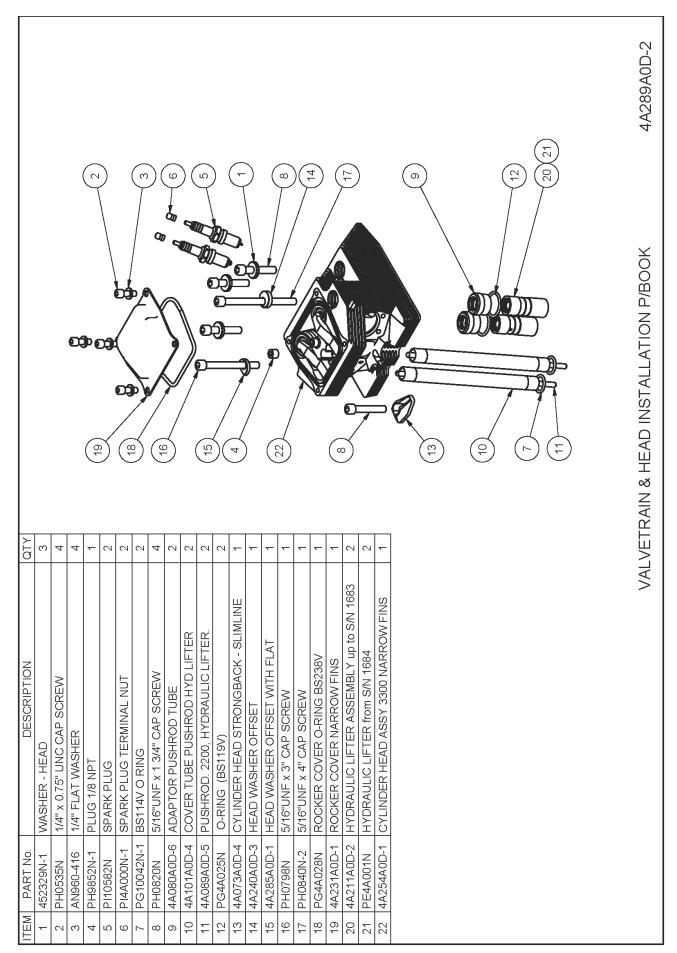


Figure 7- Drawing 4A289A0D Valvetrain Assembly up to S/N 33A2215



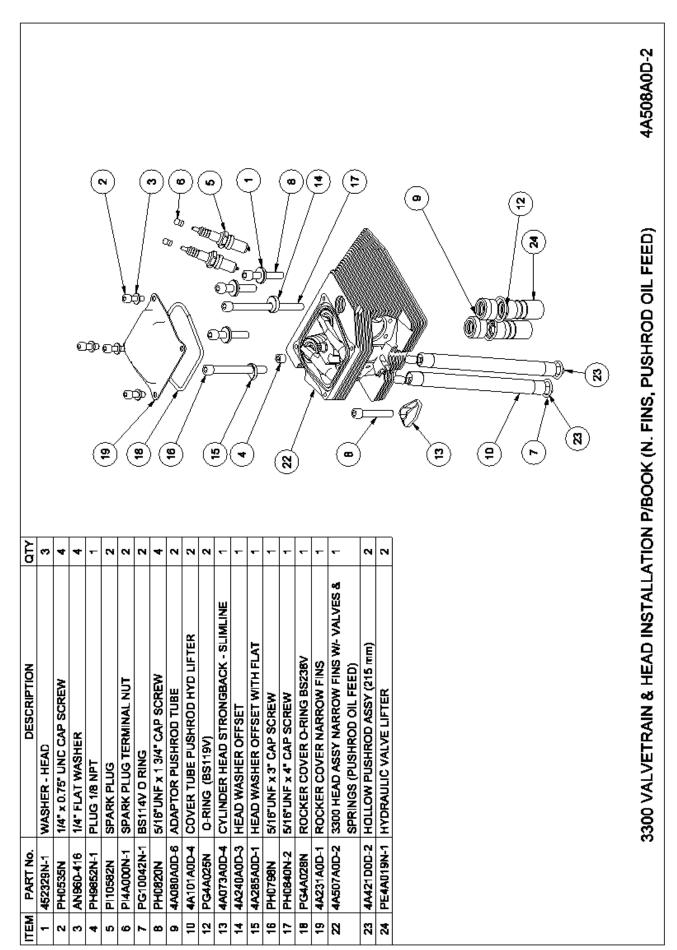


Figure 8- Drawing 4A508A0D Valvetrain Assembly from S/N 33A2216



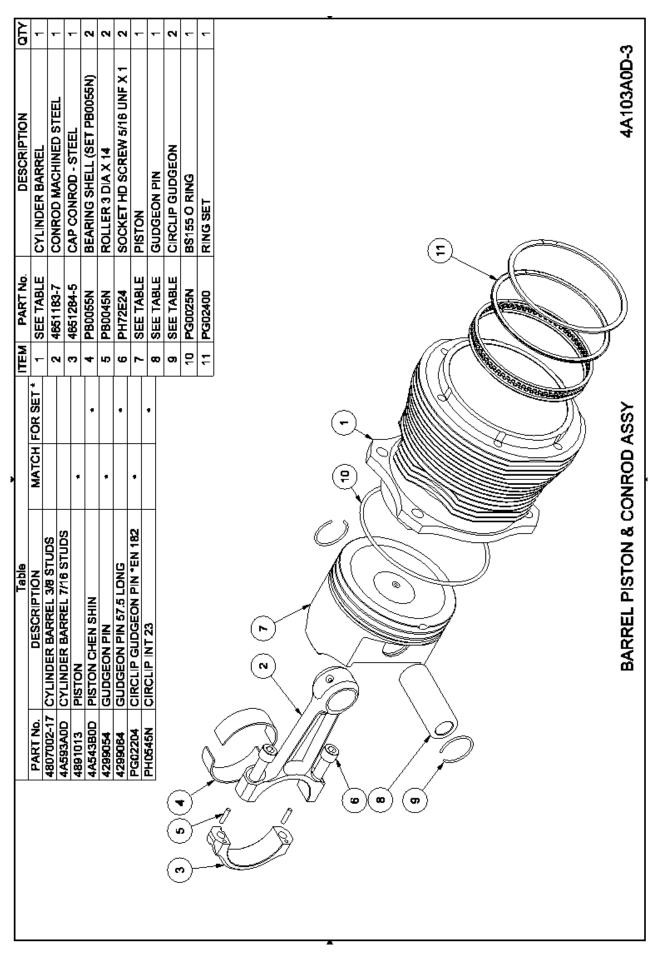


Figure 9 - Drawing 4A103A0D Barrel Piston & Conrod Assembly



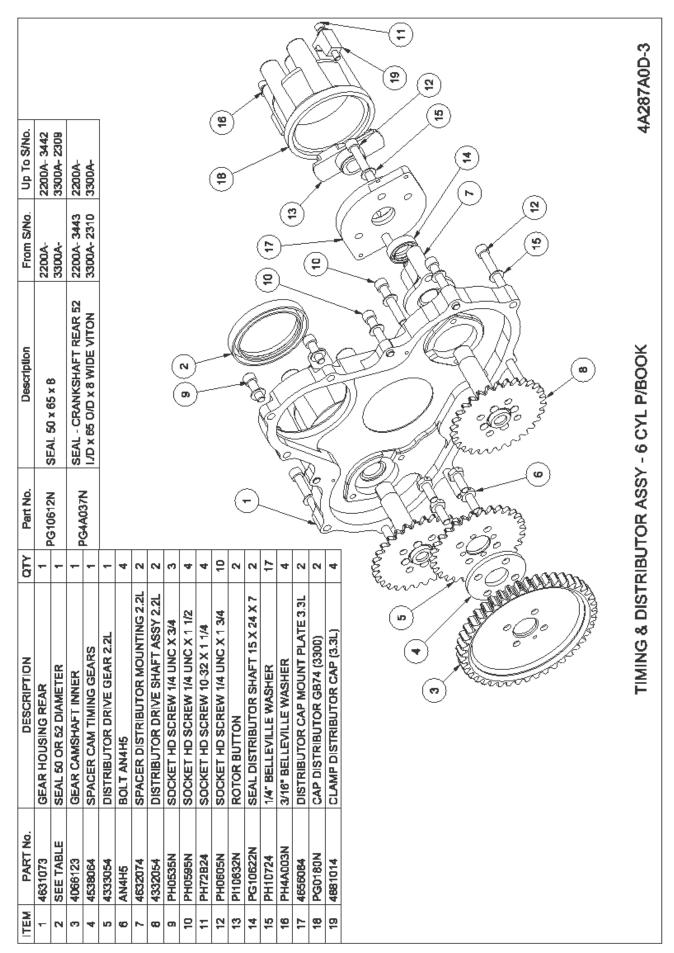


Figure 10- Drawing 4A287A0D Timing & Distributor Assembly



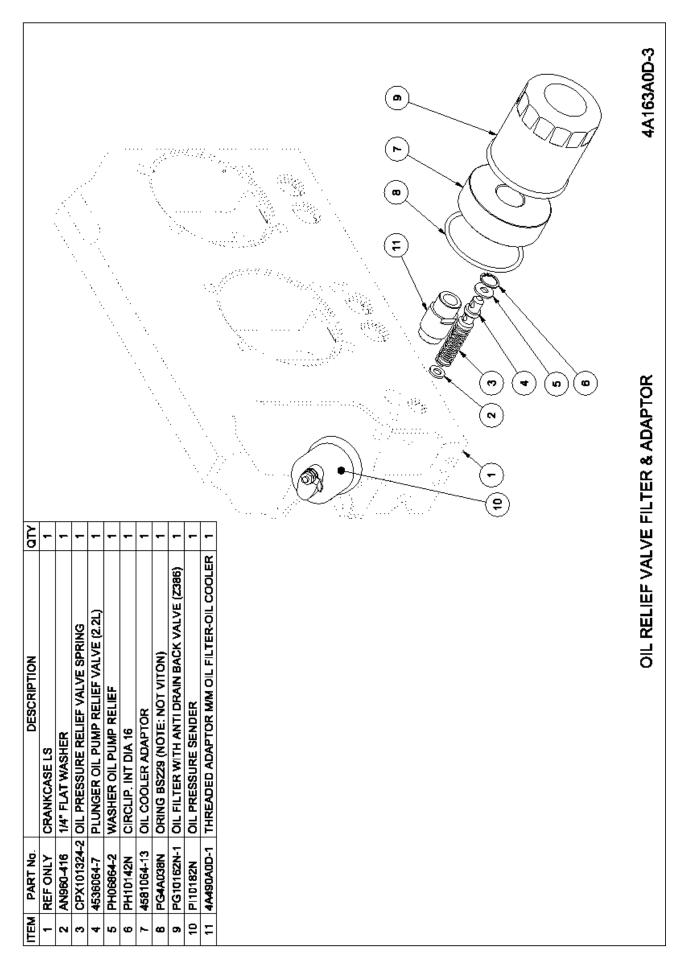


Figure 11 - Drawing 4A163A0D Oil Relief Valve Filter & Adaptor



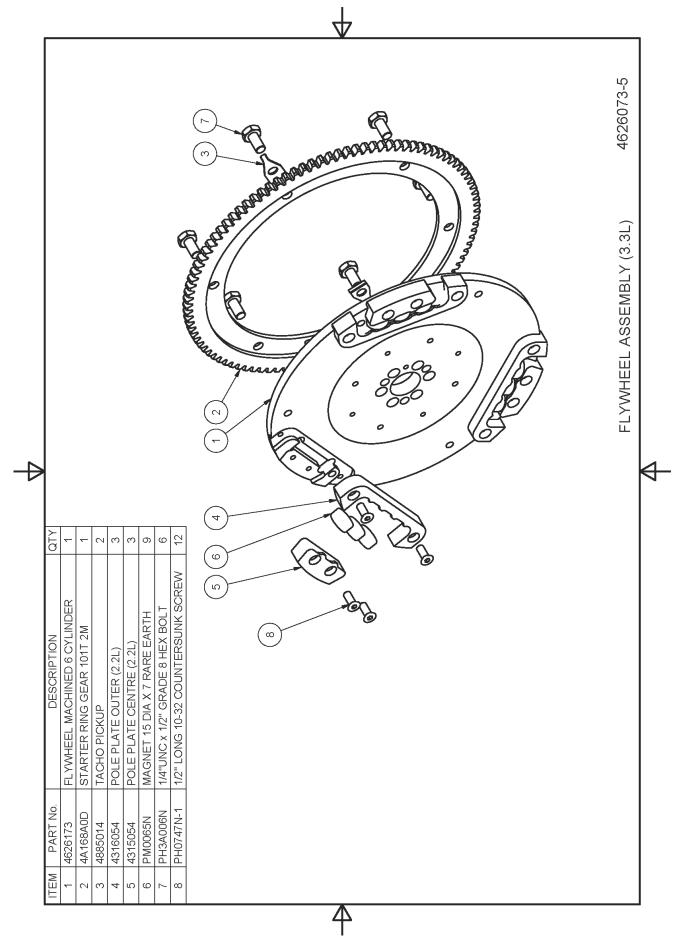


Figure 12 - Drawing 4626073 Flywheel Assembly up to S/N 1521



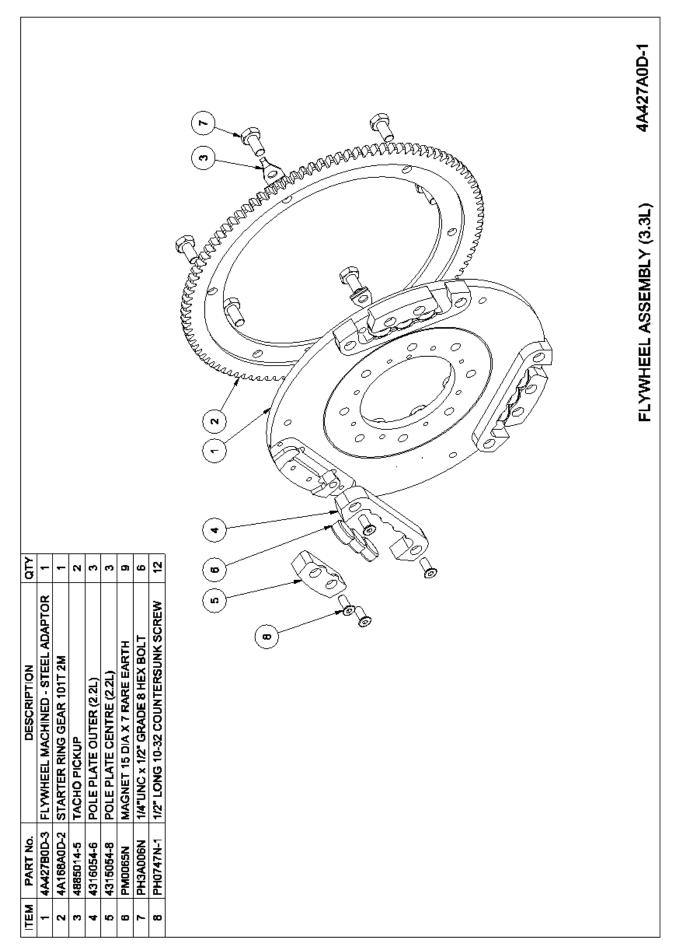


Figure 13 - Drawing 4A427A0D Flywheel Assembly from S/N 1522



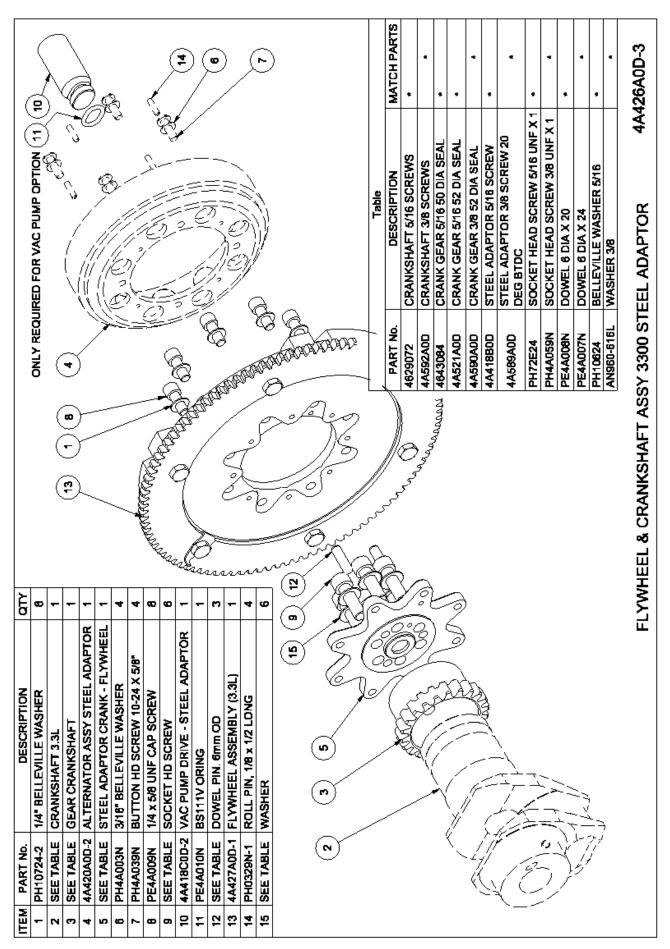


Figure 14 - Drawing 4A426A0D Flywheel & Crankshaft Assembly from S/N 1522



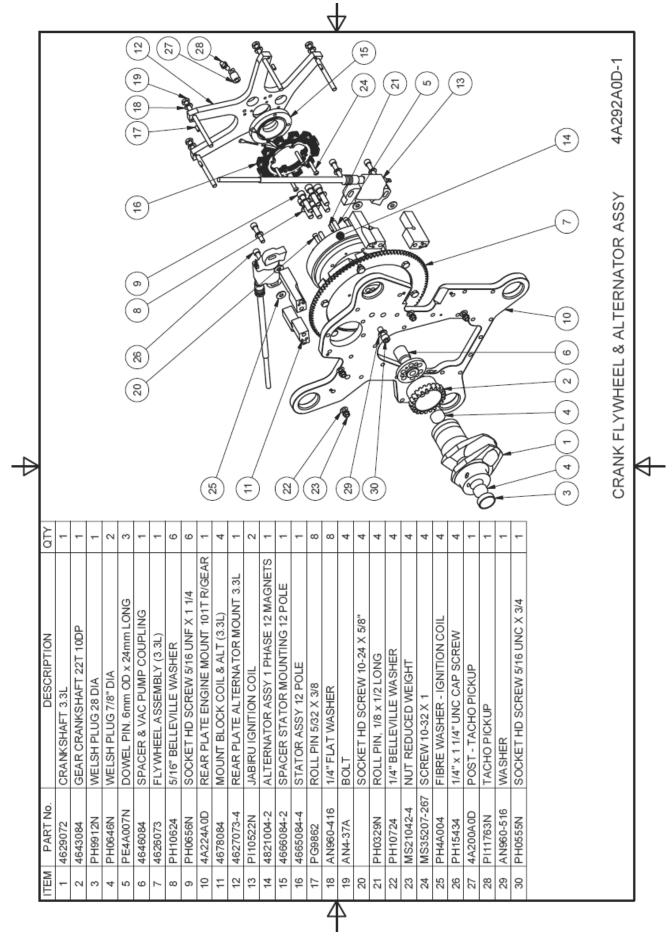


Figure 15 - Drawing 4A292A0D Crank Flywheel & Alternator Assy up to S/N 1521



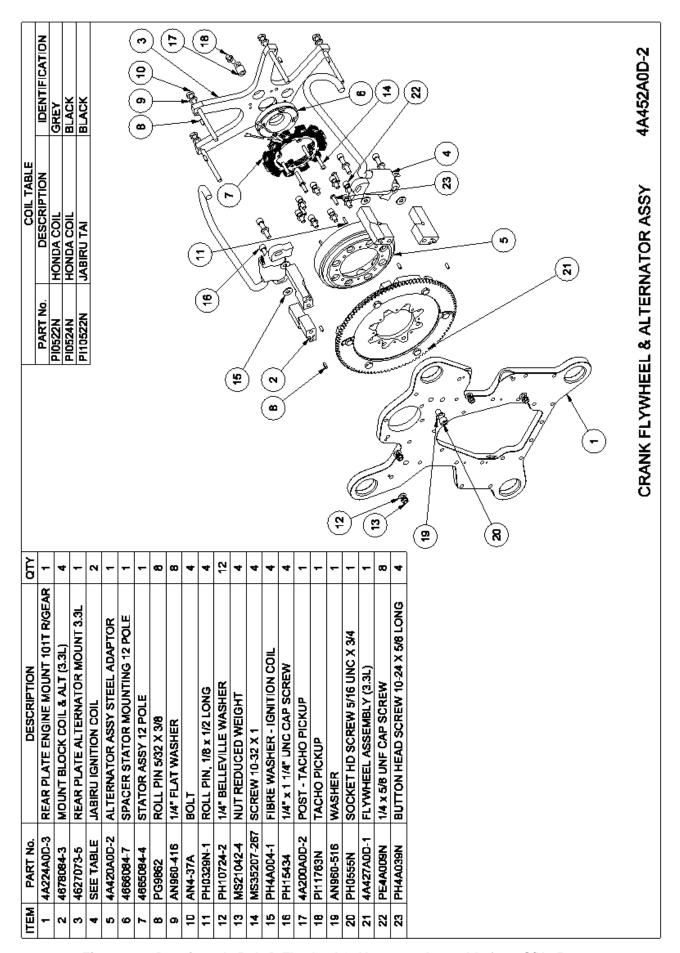


Figure 16 - Drawing 4A452A0D Flywheel & Alternator Assembly from S/N 1522



ITEM	PART#	ISS	DESCRIPTION	QTY
1	4A191A0D	3	GASKET 2 HOLE	6
	PH0535N		CAP SCREW 3/4 X 1/4UNC	12
2	SET 17	1	INDUCTION PIPE SET	1
3	PV102924	1	HOSE INDUCTION	6
4	PG102924		CLAMP	12
5	PG10212N		`O'RING BS124V	6
6	PH4A002		CAP SCREW 21/4 X 1/4 UNC	5
7	4690084	3	HEAT SHIELD	1
8	4774094	1	ADAPTOR SUMP - CARBY	1
9	4691084	1	COUPLING RUBBER	1
			HOSE CLAMP 40-64	2
10	PG4A004N	1	CARBY ASSY 40 DIA \$4886014	1
11	4773093	6	INDUCTION BODY HALF	2
12	4773194	2	DIFFUSER	1

Note Induction pipes not sold separately order as P/N SET 17

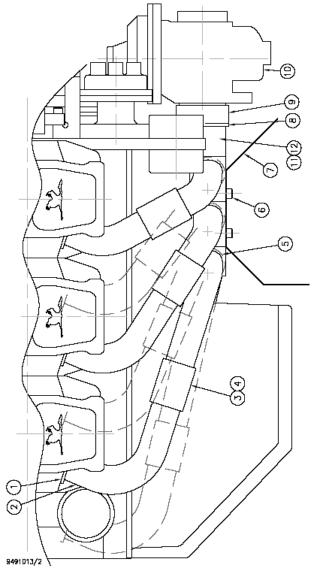


Figure 17 – Drawing 9491013 Induction System Assy



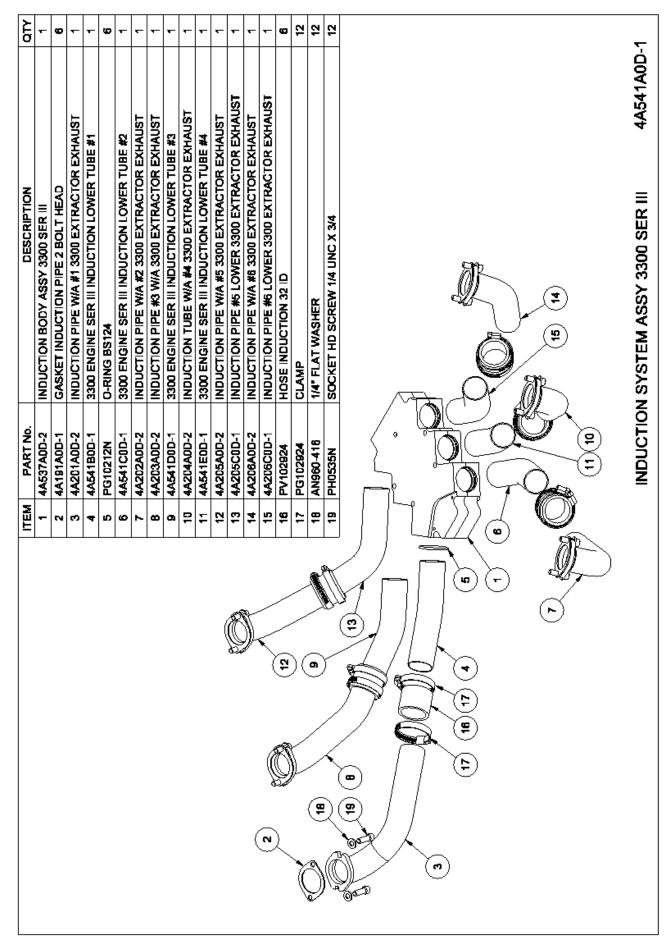


Figure 18 - Drawing 4A541A0D Induction Assy Ser III



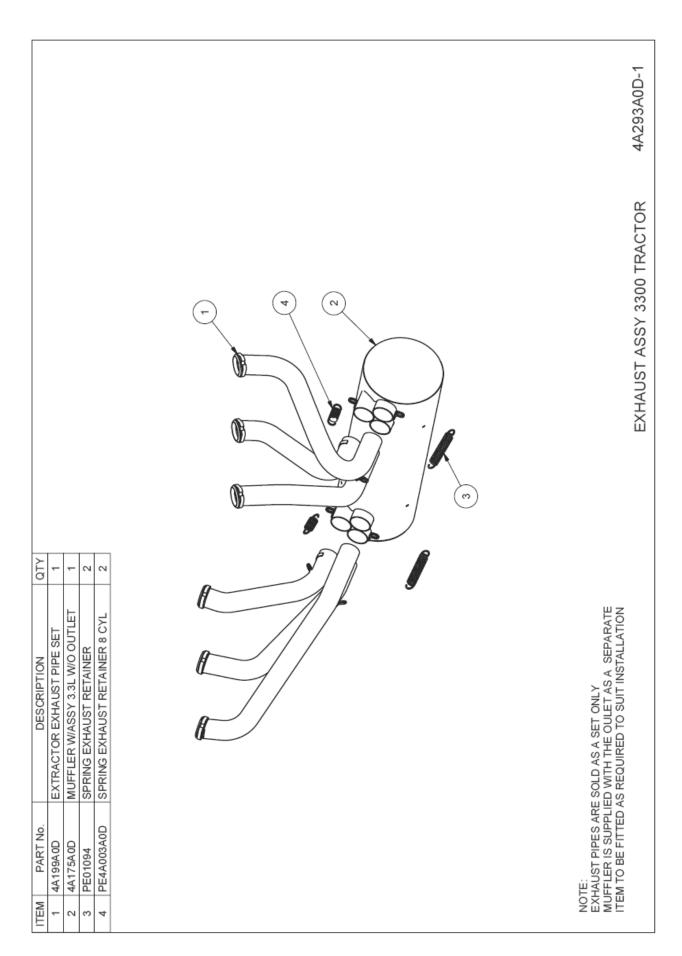


Figure 19 - Drawing 4A293A0D Exhaust Assembly Tractor



ITEM	PART #	ISS	DESCRIPTION	QTY
1 & 2	4A114A0D	1	EXHAUST MANIFOLD SET 2 BOLT FLANGES	1
	PH0535N		CAP SCREW 3/4 X 1/4 UNC	12
3	PE01094	1	SPRING	4
4	4746093	1	MUFFLER ASSY (outlet pipes not welded in)	1

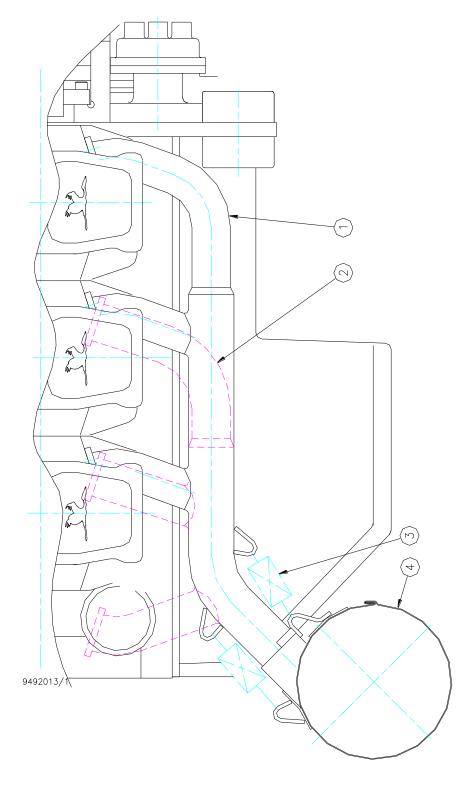


Figure 20 – Drawing 9492013 Exhaust Assembly Pusher



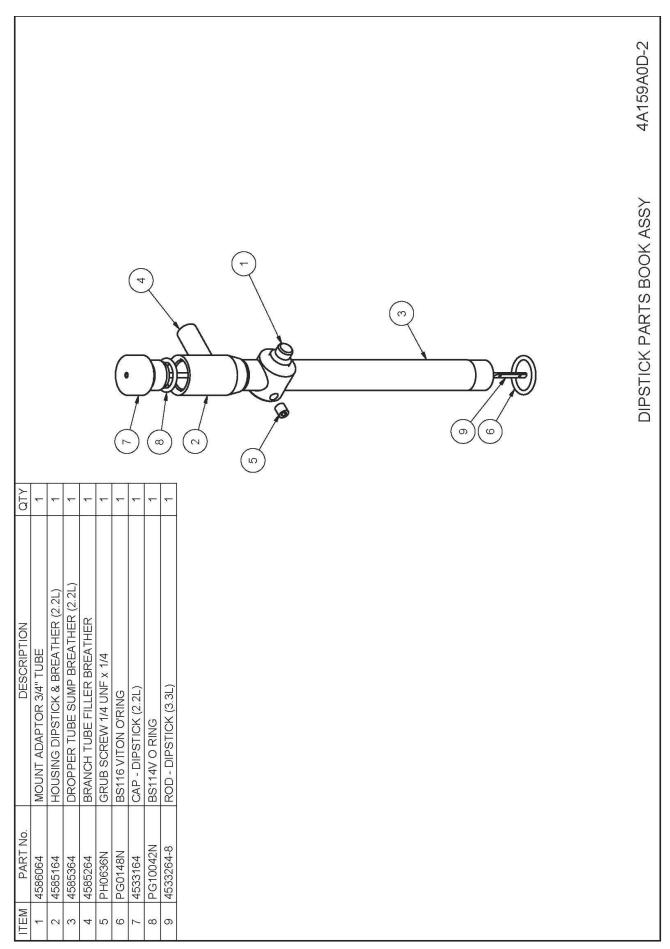


Figure 21 - Drawing 4A159A0D Dipstick Assembly



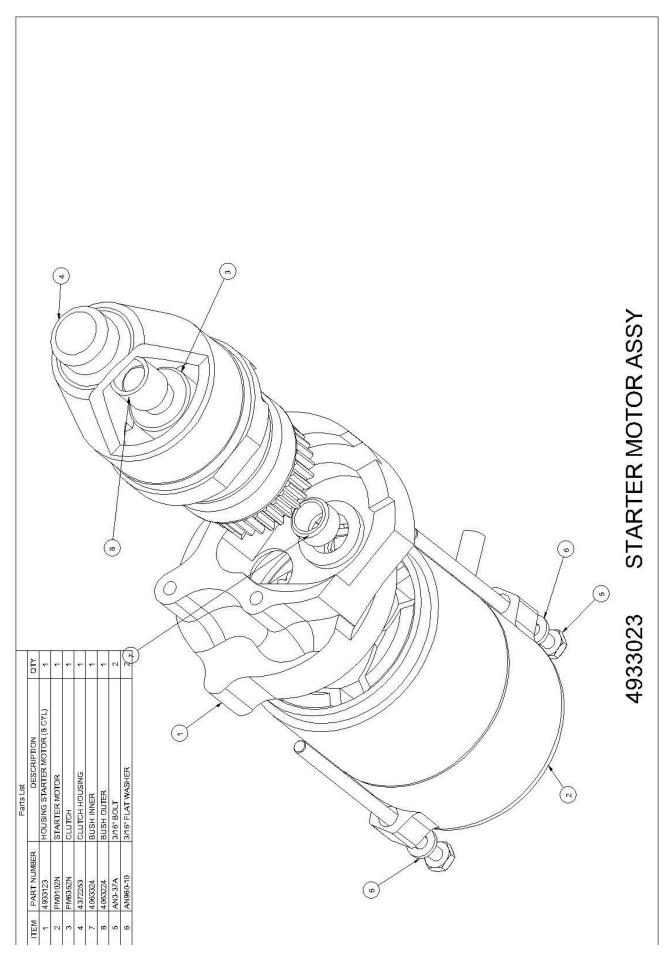


Figure 22 - Drawing 4933023 Starter Motor Assembly



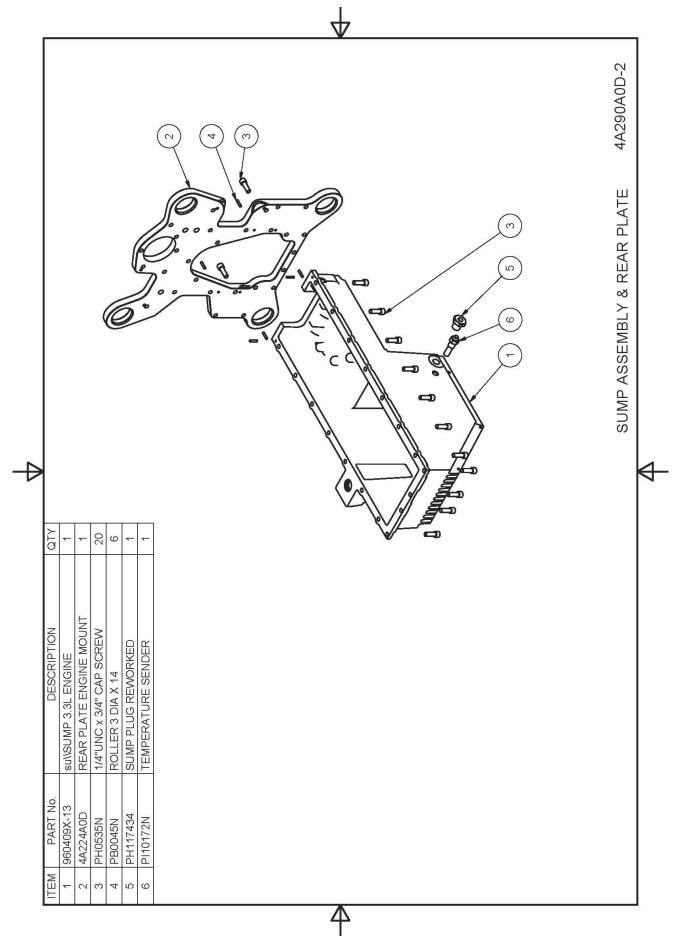


Figure 23 - Drawing 4A290A0D Sump Assembly & Rear Plate



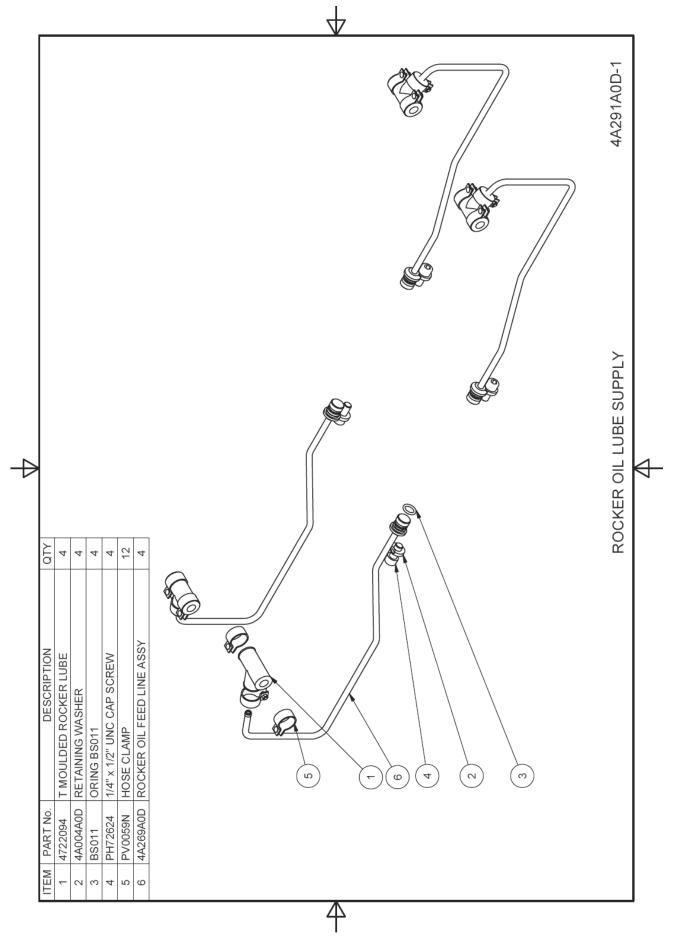


Figure 24 – Drawing 4A291A0D Rocker Oil Lube Supply up to S/N 33A2215



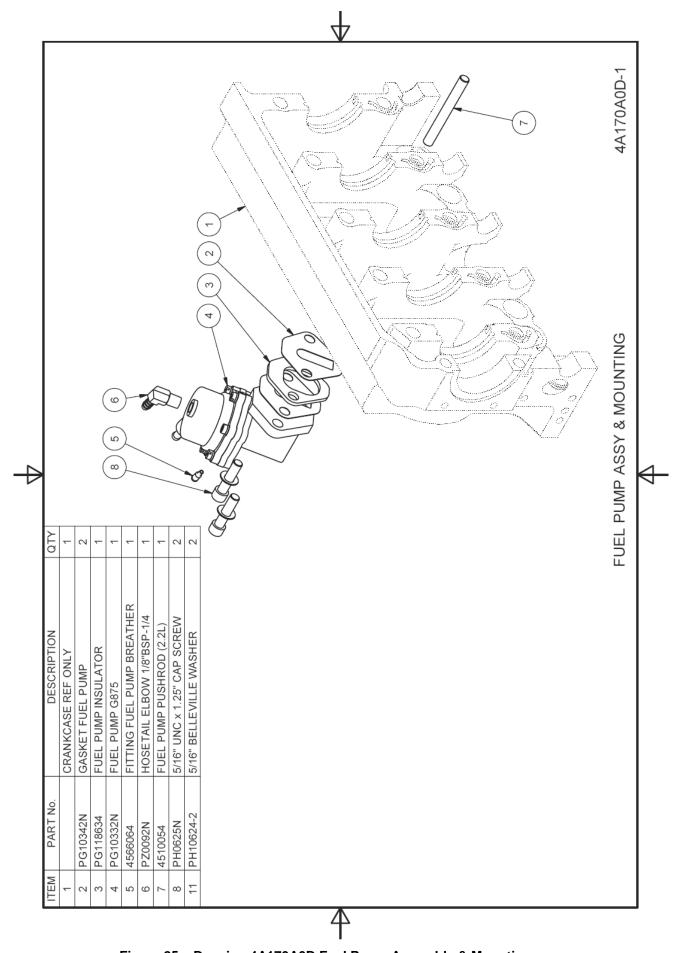


Figure 25 – Drawing 4A170A0D Fuel Pump Assembly & Mounting



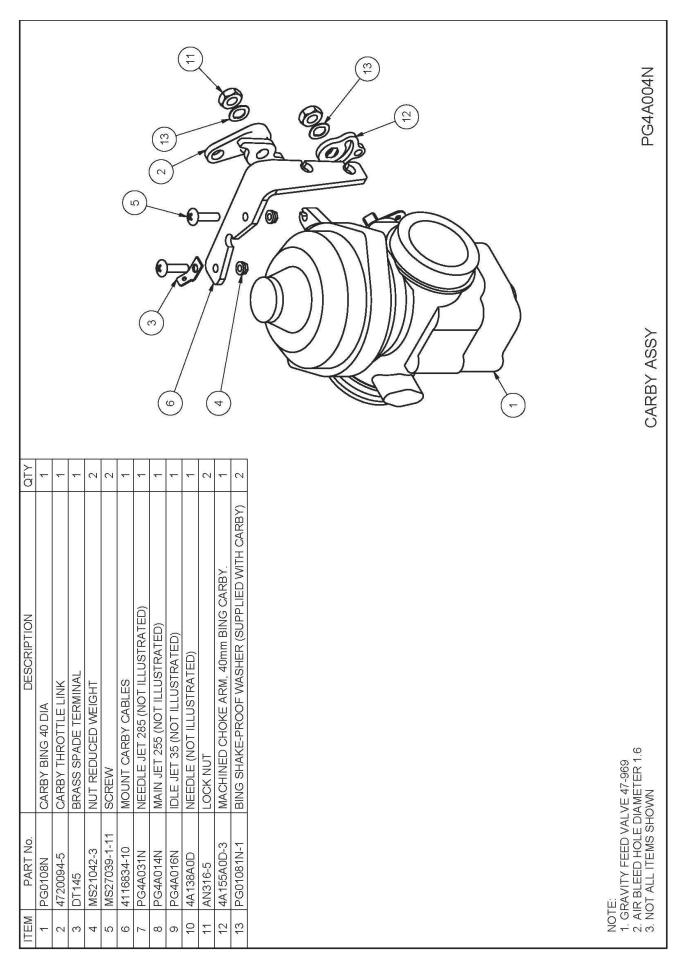


Figure 26 - Drawing 4886014 Carburetor Assembly



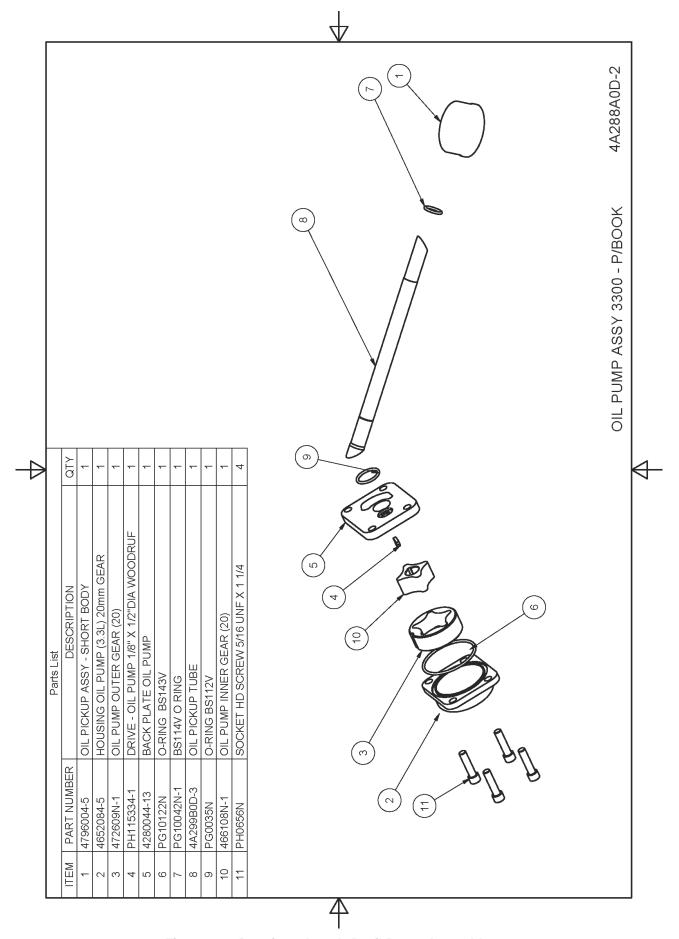


Figure 27 - Drawing 4A288A0D Oil Pump Assembly



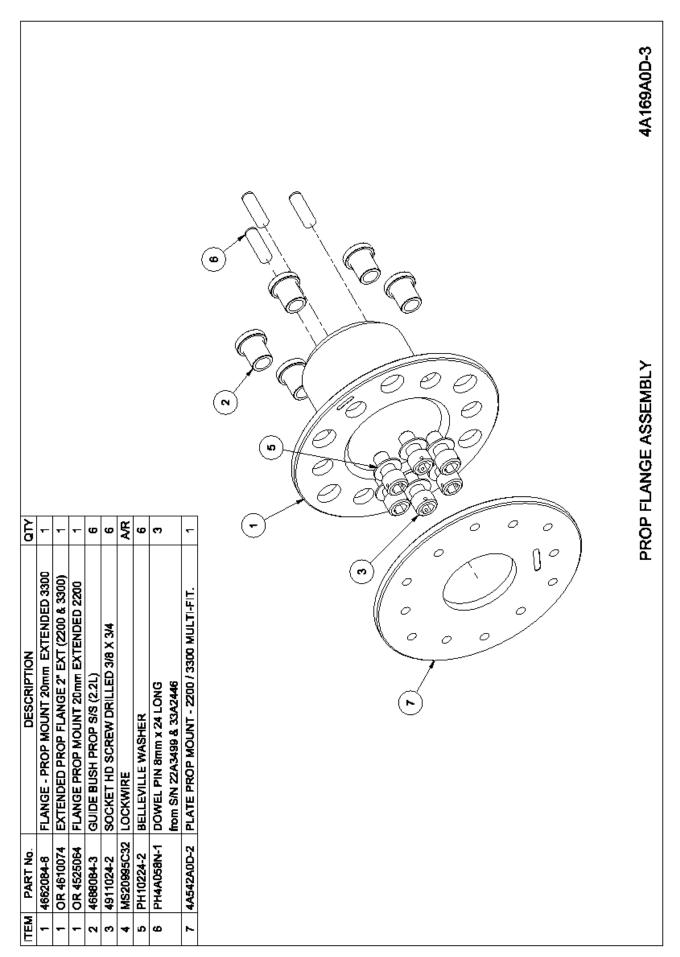


Figure 28 - Prop Flange Assembly

Jabiru Aircraft



PI10652N RECTIFIER/REGULATOR SINGLE PHASE 1 PI10662N CABLE STARTER 1 PI10672N COUPLING CRIMP 1 PI10682N CABLE FITTING 5/16 1 PI10692N STARTER RELAY 1	QTY	EM PART # ISS DESCRIPTION
PI10672N COUPLING CRIMP 1 PI10682N CABLE FITTING 5/16 1	1	PI10652N RECTIFIER/REGULATOR SINGLE PHASE
PI10682N CABLE FITTING 5/16 1	1	PI10662N CABLE STARTER
	1	PI10672N COUPLING CRIMP
PI10692N STARTER RELAY 1	1	PI10682N CABLE FITTING 5/16
	1	PI10692N STARTER RELAY
PI12497N SOLENOID 1	1	PI12497N SOLENOID

Figure 29: Miscellaneous Electrical



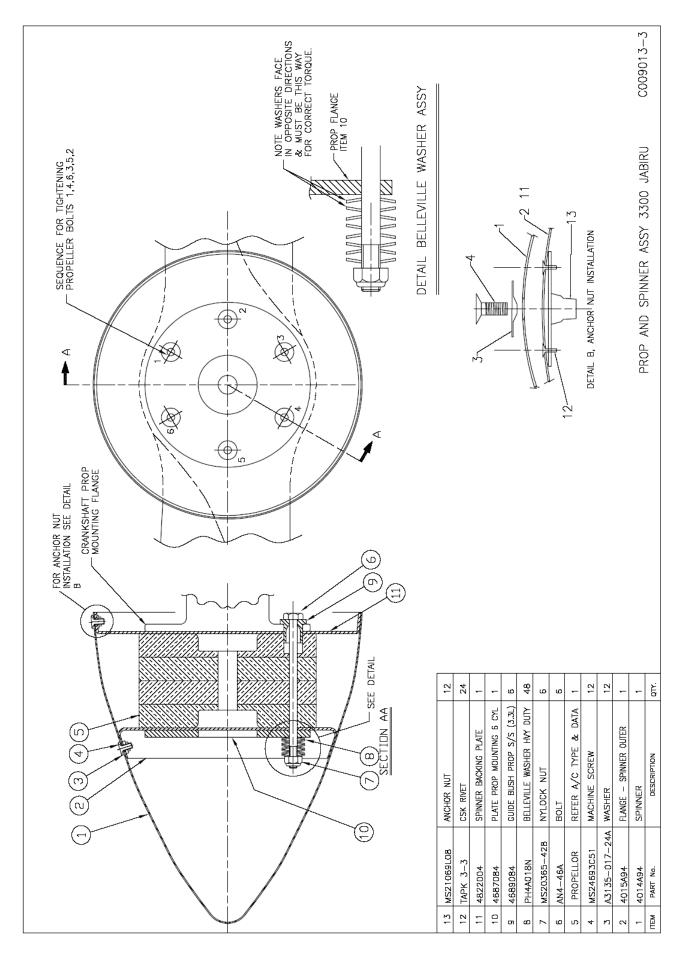


Figure 30.- Drawing C009013 Propeller Installation (4 Laminate Prop)