

ENGINE SPARE PART MANUAL

Water Cooled Non - Regulated



SERIAL NUMBER:
10300194LLE010112

ENGINE:
Dynapac- 4R1040T

PART NUMBER:
4812331171



INDEX

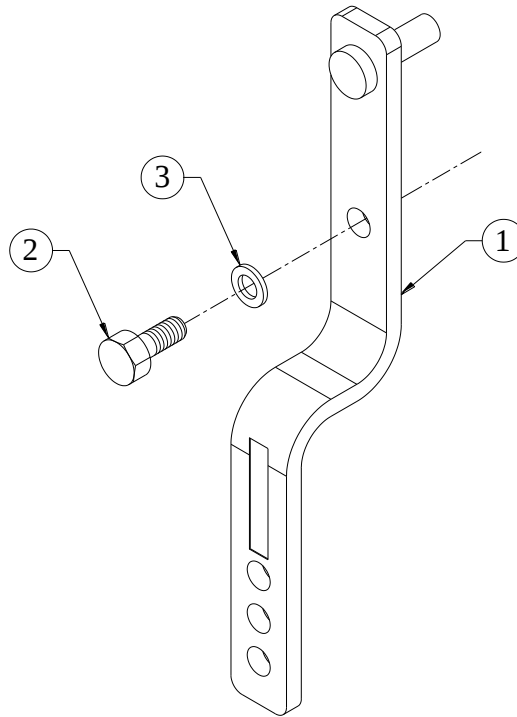
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NOTE: - AS CONTINUOUS IMPROVEMENTS ARE CONTEMPLATED THE ILLUSTRATION AND DESCRIPTIONS ARE NOT BINDIN



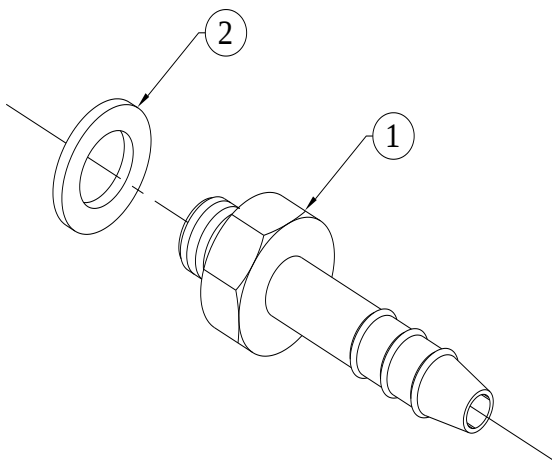
TITLE: - ACCELERATOR LEVER (PULL TYPE)



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331622	ACCELERATOR LEVER	1	
2	4812331524	SET SCREW - M6X1X12 - 8.8	1	
3	4812331568	PLAIN MACHINED WASHER - M6	1	

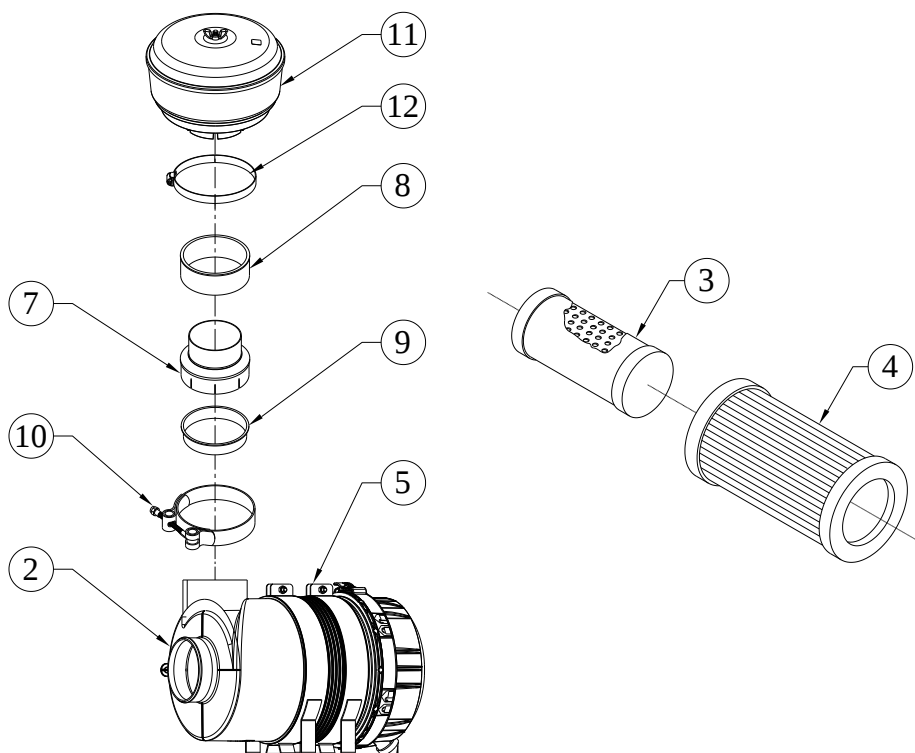


TITLE: - ADAPTOR FOR VENT PIPE & WASHER



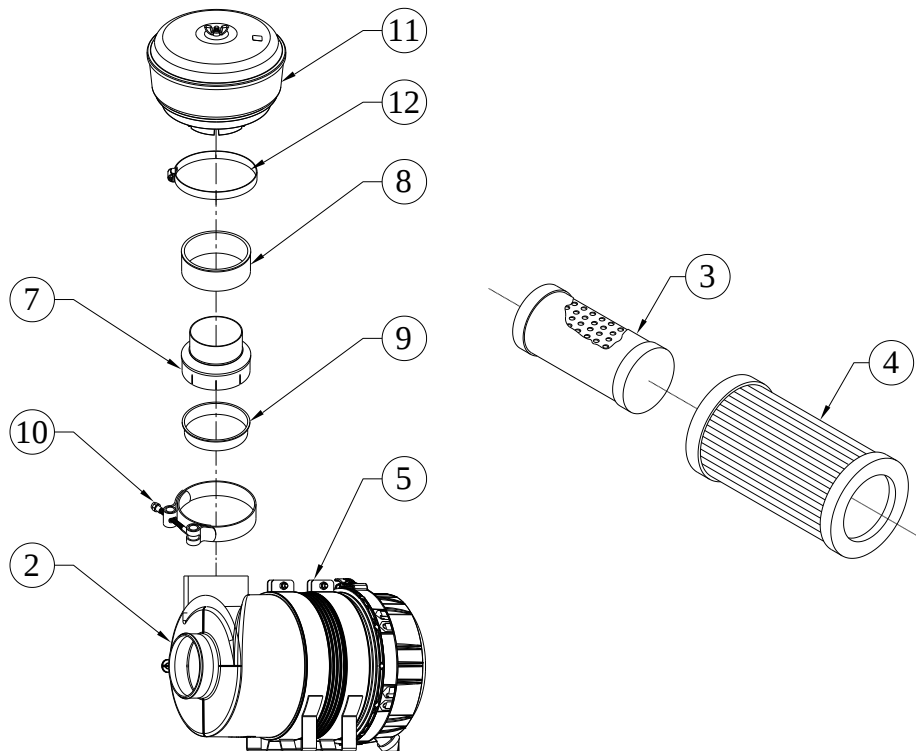
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331463	ADAPTOR FOR VENT PIPE	1	
2	4812331580	COPPER WASHER	1	



**TITLE: - AIR CLEANER ASSEMBLY WITH
PRE-CLEANER**


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331460	ASSEMBLY OF AIR CLEANER & PRECLEANER	1	CONSISTING OF SR. NO. 2, 6, 11
2	4812331480	AIR CLEANER ASSEMBLY	1	CONSISTING OF SR. NO. 3 TO 5 NOT SUPPLIED LOOSE
3	4812331802	AIR CLEANER, SAFETY ELEMENT	1	
4	4812331801	AIR CLEANER, PRIMARY ELEMENT	1	
5	4812331457	MOUNTING STRAP FOR 10M3	2	
*6	4812331458	REDUCER HOSE ASSEMBLY	1	CONSISTING OF SR. NO. 7 TO 10
7	4812331454	HOSE REDUCER BET. AIR CLEANER AND PRE-CLEANER	1	
8	4812331455	RUBBER SLEEVE SMALL -FOR PRE-CLEANER	1	

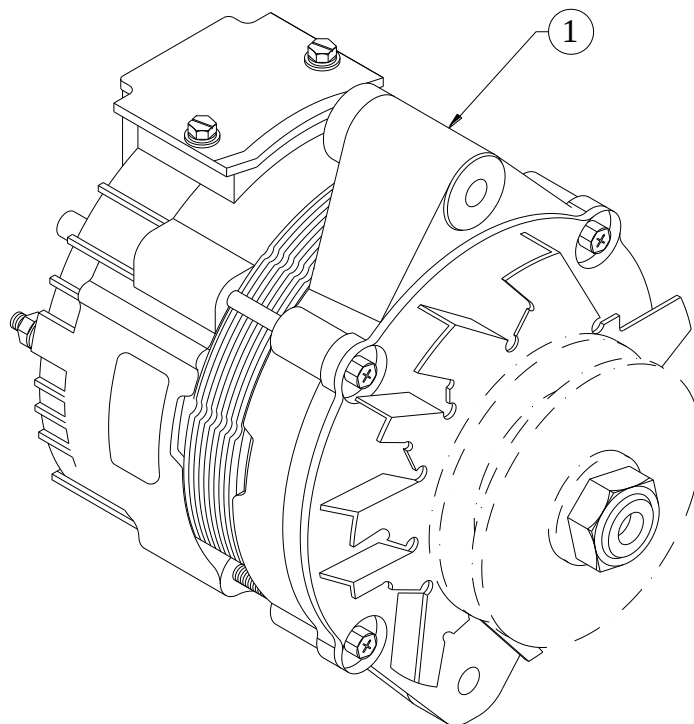
**TITLE: - AIR CLEANER ASSEMBLY WITH
PRE-CLEANER**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
9	4812331456	RUBBER SLEEVE LARGE – FOR AIR CLEANER	1	
10	4812331618	HOSE T BOLT CLAMP	1	
11	4812331284	PRE CLEANER	1	CONSISTING OF SR. NO. 12
12	4812331283	CLAMP FOR PRE CLEANER	1	



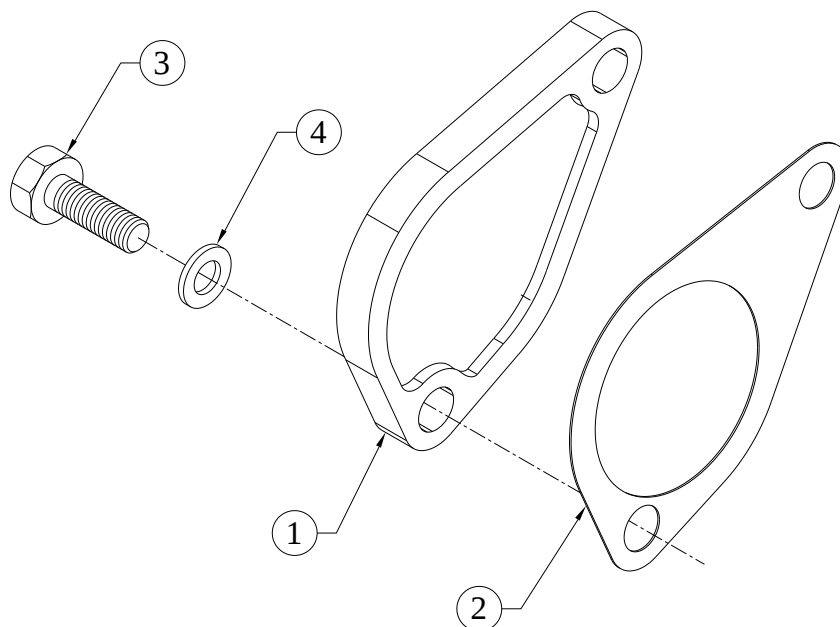
TITLE: -ALTERNATOR 12V



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331391	ALTERNATOR 12 V	1	



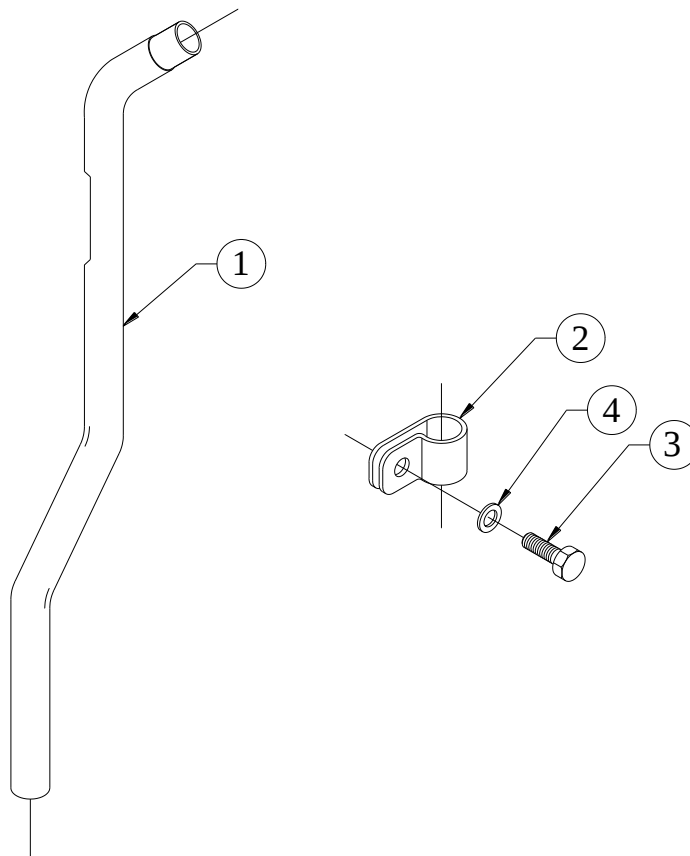
**TITLE: - BLANKING PLATE FOR HYD PUMP
BORE**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331251	BLANKING PLATE	1	
2	4812331260	JOINT	1	
3	4812331535	SET SCREW - M10X1.5X25 - 8.8	2	
4	4812331572	PLAIN MACHINED WASHER - M10	2	



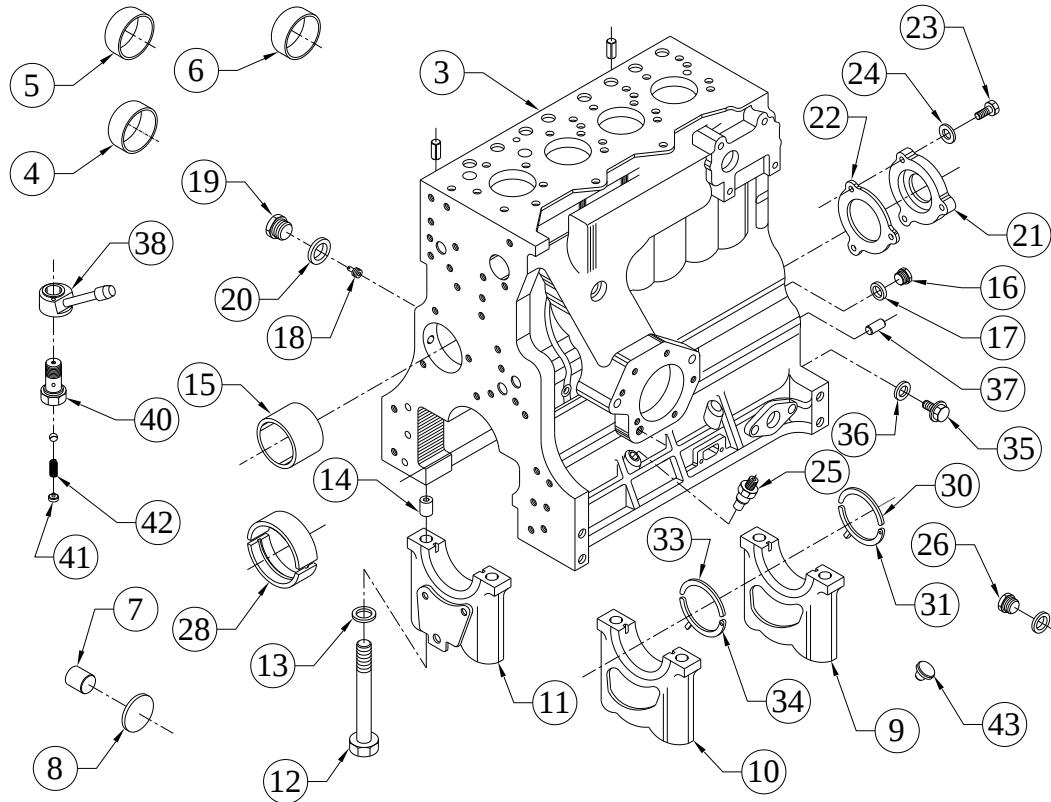
TITLE:- BREATHERPIPE (TURBO ENGINE)



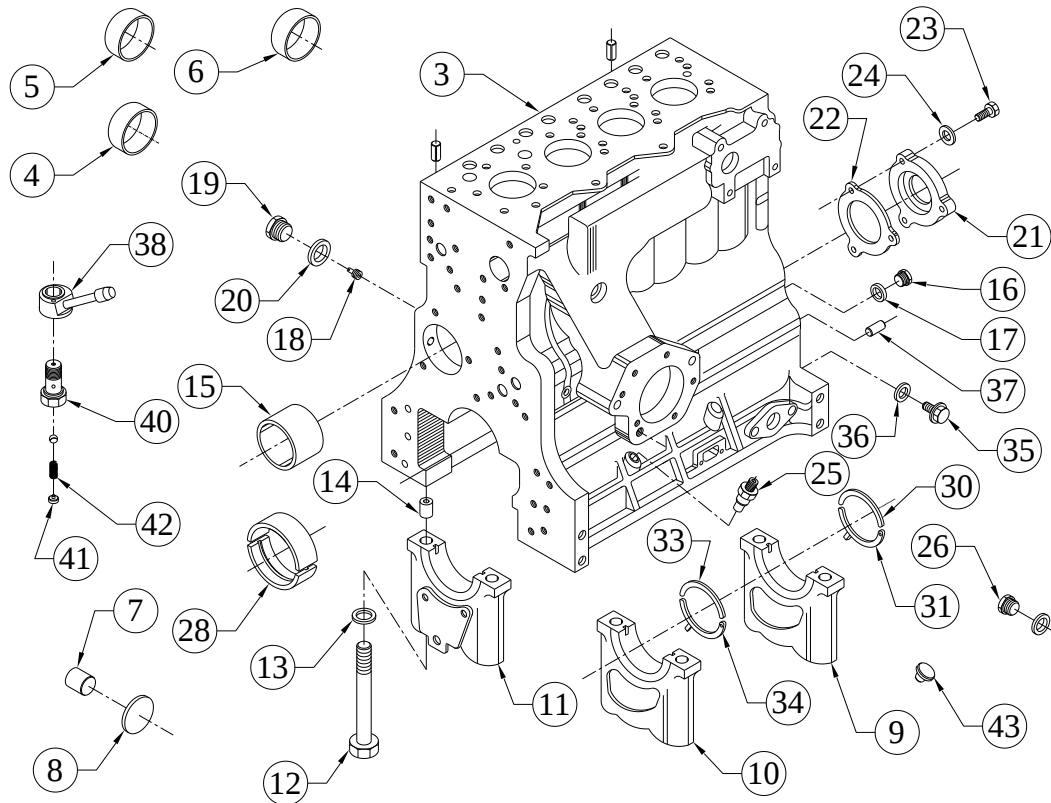
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331442	BREATHER PIPE	1	
2	4812331443	CLIP FOR BREATHER PIPE	1	
3	4812331525	SET SCREW - M8X1.25X16 - 8.8	1	
4	4812331570	PLAIN MACHINED WASHER - M8	1	



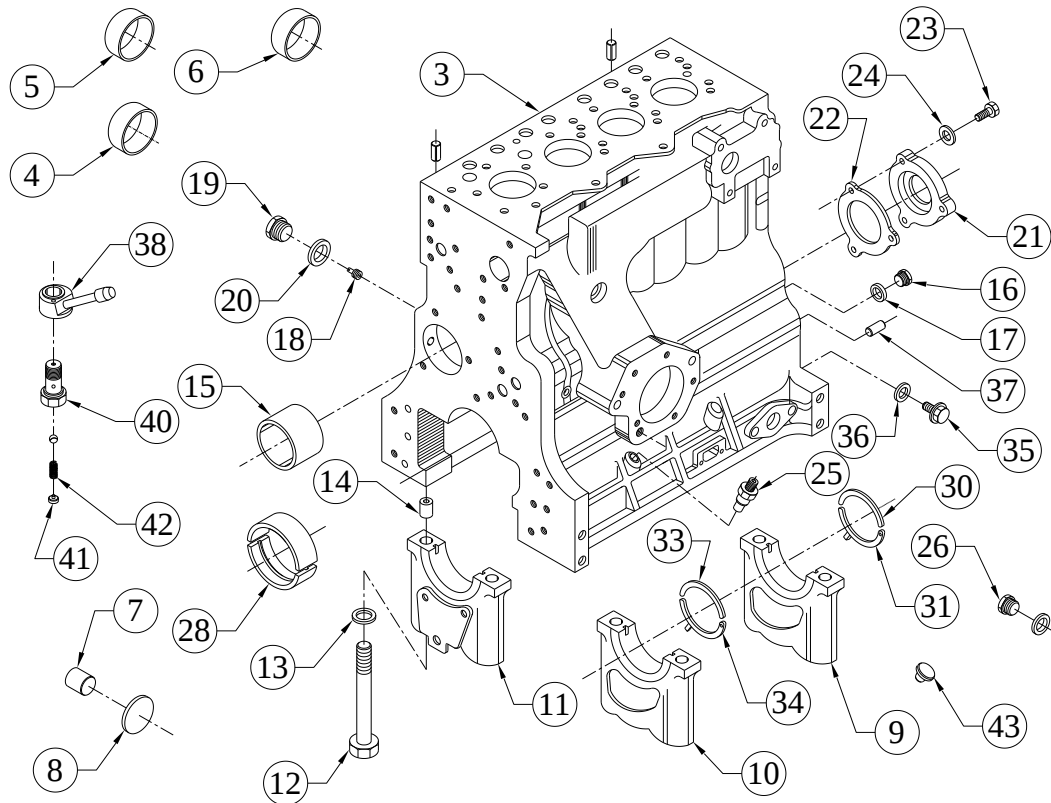
TITLE: - CRANKCASE (TURBOCHARGED ENGINE)



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331435	CRANKCASE ASSLY.WITHOUT BEARINGS	1	CONSISTING OF SR. NO. 2, 15 TO 26
*2	4812331436	CRANKCASE (LINE BORING OPERATION)	1	CONSISTING OF SR. NO. 3 TO 14
3	-	CRANKCASE (TURBOCHARGED ENGINE)	1	NOT SUPPLIED LOOSE
4	4812331613	SEALING CAP	5	
5	4812331612	SEALING CAP.(40 DIN 443)	2	
6	4812331354	SEALING CAP	3	
7	4812331327	CRANK SHAFT PLUG - ALUMINIUM	2	
8	4812331328	WASHER FOR ALU.PLUG.	2	
9	-	M.B.CAP (FWE)16.99 DIA.DOWEL HOLE	1	NOT SUPPLIED LOOSE
10	-	M.B.CAP (KHD)16.99DIA DOWEL HOLES	3	NOT SUPPLIED LOOSE

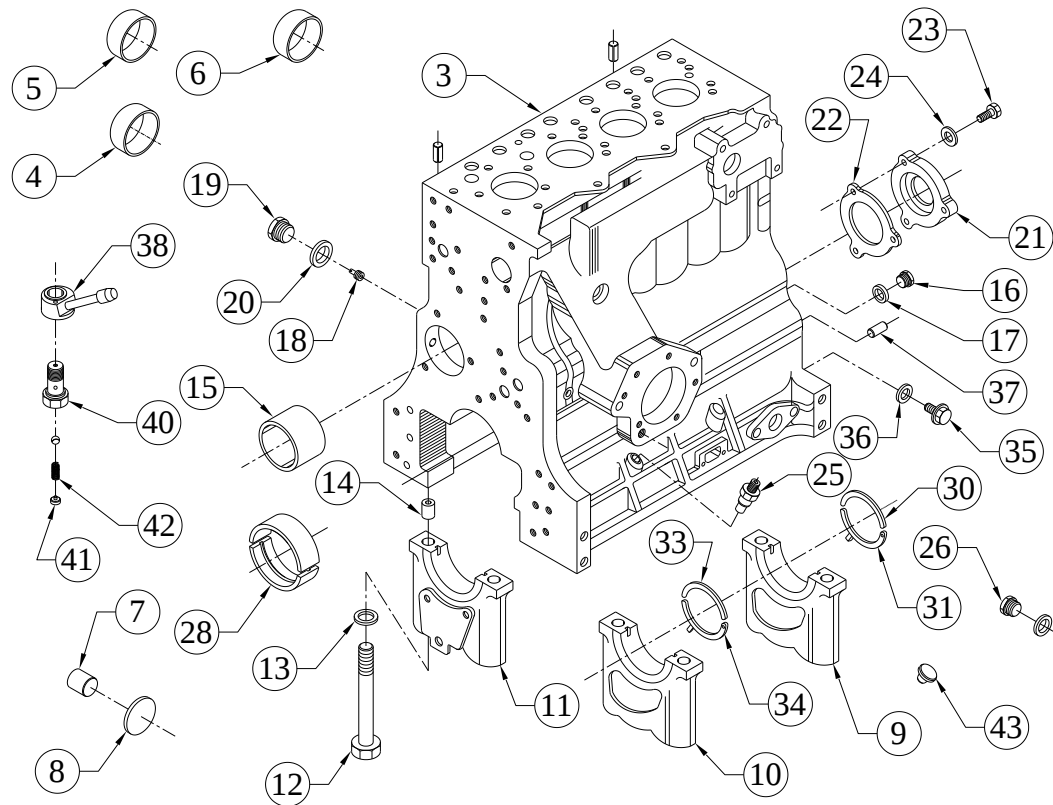
TITLE: - CRANKCASE (TURBOCHARGED ENGINE)


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
11	-	BEARING CAP(GEAR END)(FINISH)	1	NOT SUPPLIED LOOSE
12	4812331236	BOLT FOR MB CAP(HEX HEAD) M14X2X128	10	
13	4812331210	SPECIAL WASHER FOR M14 BOLT	10	
14	4812331608	HOLLOW DOWEL(M.B.CAP)	10	
15	4812331230	CAM BUSH	1	
16	4812331258	PRECOATED SCREW PLUG	1	
17	4812331584	COPPER WASHER (20X26)	1	
18	4812331231	SLOTTED PIN	5	
19	4812331357	PRECOATED PLUG	6	
20	4812331578	COPPER WASHER (12X18)	6	
21	4812331353	BLANKING PLATE FOR CAM BORE	1	
22	4812331356	JOINT FOR CAM BORE BLANKING PLATE	1	
23	4812331530	SET SCREW - M8X1.25X25 - 8.8	3	
24	4812331570	PLAIN MACHINED WASHER - M8	3	
25	4812331281	ADAPTOR FOR DIP-STICK(BAR)	1	
26	4812331599	CORE PLUG	1	

TITLE: - CRANKCASE (TURBOCHARGED ENGINE)


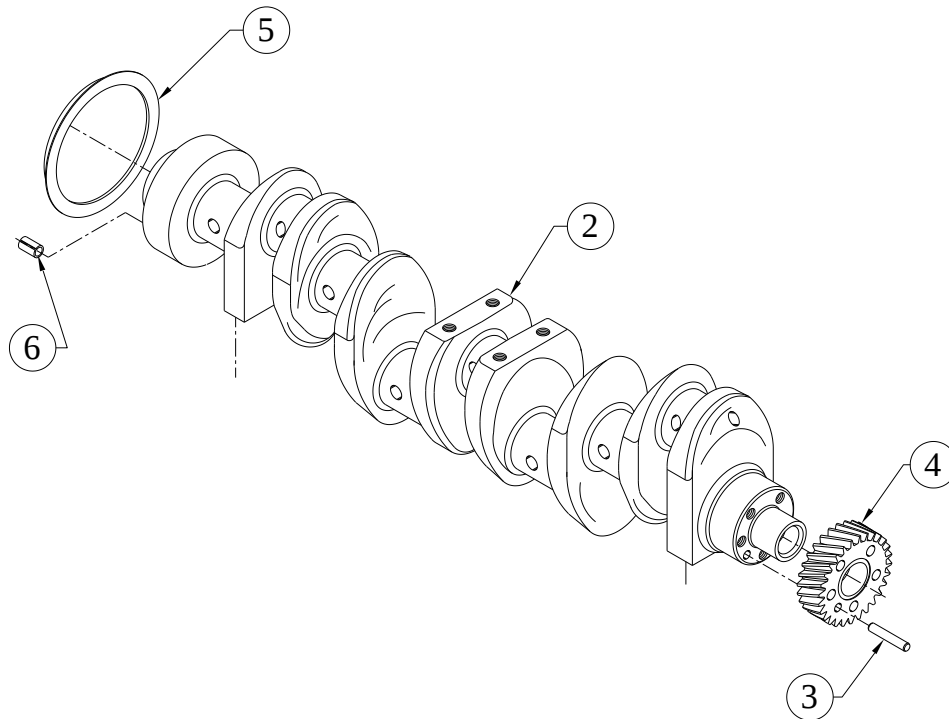
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*27	4812331211	MAIN BRG TOP & BOTTOM	5	CONSISTING OF SR. NO. 28
28	4812331212	MAIN BEARING HALF(STANDARD)	2	
*29	4812331233	THRUST RING PAIR-DRIVE END,102 DIA.)	1	CONSISRTING OF SR. NO. 30, 31
30	4812331234	THRUST WASHER -DRIVE END,TOP	1	
31	4812331235	THRUST WASHER (DRIVE END,BOTTOM)	1	
*32	4812331611	THRUST RING PAIR-G.E.	1	CONSISTING OF SR. NO. 33, 34
33	4812331609	THRUST RING HALF(G.E.-TOP)	1	
34	4812331610	THRUST RING HALF(G.E.-BOTTOM)	1	
35	4812331597	PLUG (M14X1.5)	1	

TITLE: - CRANKCASE (TURBOCHARGED ENGINE)



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
36	4812331580	COPPER WASHER (14X20)	1	
37	4812331562	DOWEL	2	
38	4812331437	OIL SPRAY NOZZLE (MODIFIED)	4	
*39	4812331434	SUB. ASSEMBLY OF SPECIAL BANJO BOLT (FOR OIL SPRAY NOZZLE.)	4	CONSISTING OF SR. NO. 40 TO 42
40	-	BANJO BOLT	1	NOT SUPPLIED LOOSE
41	-	CLOSING BUTTON (FOR OIL SPRAY BANJO BOLT)	1	NOT SUPPLIED LOOSE
42	-	SPRING	1	NOT SUPPLIED LOOSE
43	4812331351	PLUG FOR DIP STICK HOLE	1	

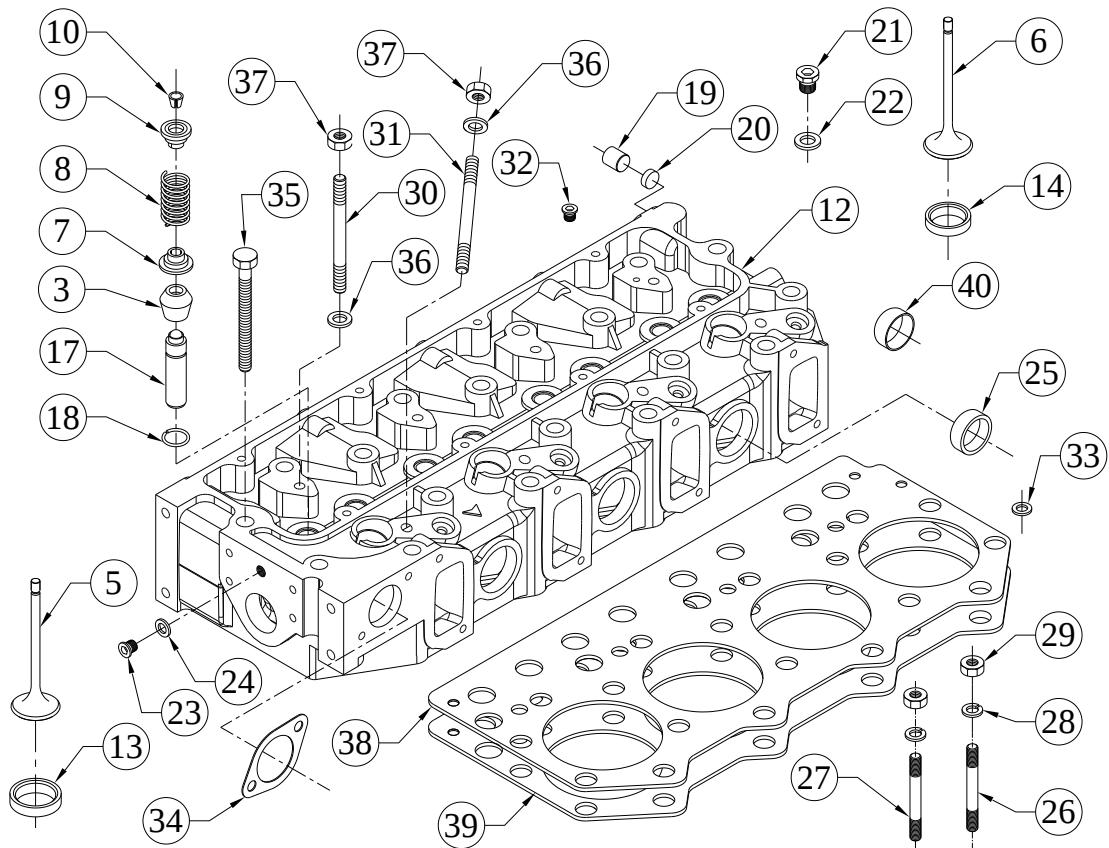
TITLE: - CRANKSHAFT INTEGRAL



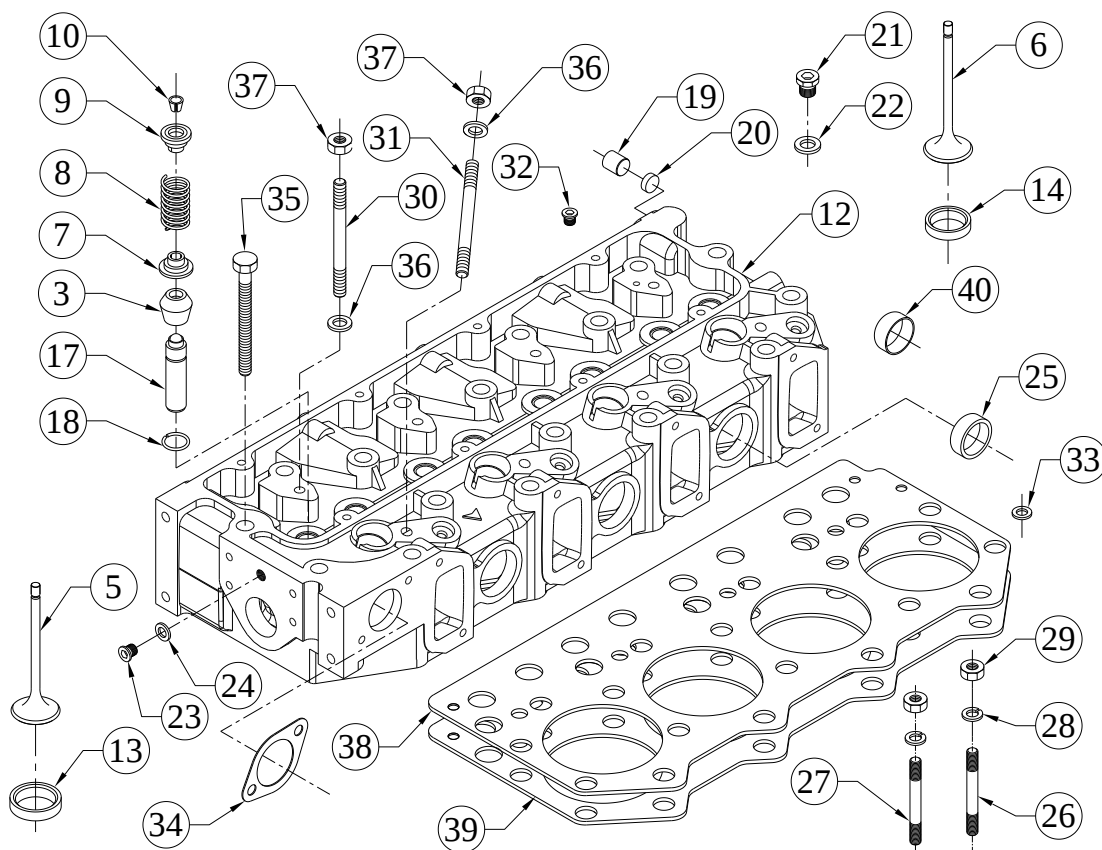
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331459	CRANKSHAFT (ASSEMBLY) INTEGRAL	1	CONSISTING OF SR.NO. 2 TO 5
2	4812331479	CRANKSHAFT (MACHININIG) INTEGRAL	1	
3	4812331560	DOWEL PIN	2	
4	-	CRANKSHAFT GEAR	1	NOT SUPPLIED LOOSE
5	4812331619	DEFLECTOR FOR OIL SEAL	1	
6	4812331590	SPRING DOWEL	1	



TITLE: - CYLINDER HEAD ASSEMBLY

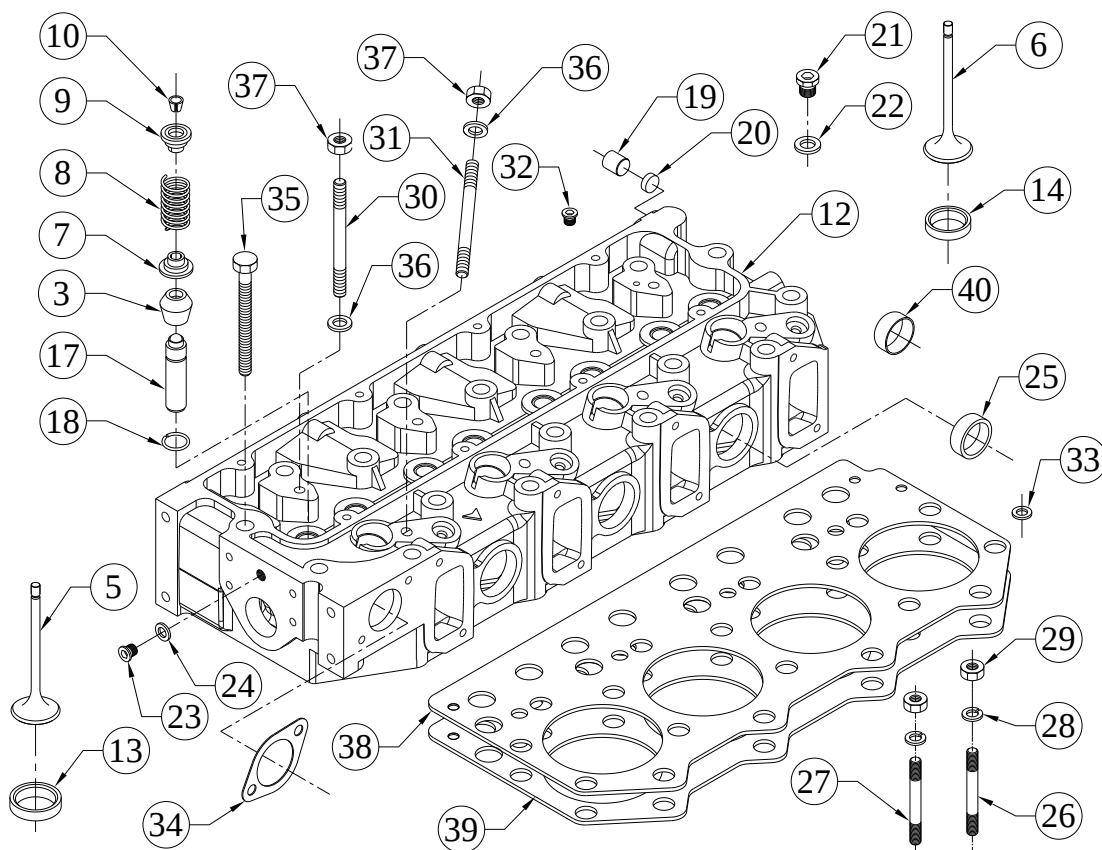


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331411	CYLINDER HEAD ASSLY COMPLETE.	1	CONSISTING OF SR. NO. 2 & 30 TO 33
*2	4812331412	CYL.HEAD ASSLY WITH VALVES & SPRINGS	1	CONSISTING OF SR. NO. 3 TO 11 & 26 TO 29
3	4812331285	VALVE SEAL	8	
*4	4812331410	INLET & EXHAUST VALVE PAIR	1	CONSISTING OF SR. NO. 5, 6
5	4812331408	INLET VALVE	4	
6	4812331409	EXHAUST VALVE	4	
7	4812331329	CUP FOR VALVE SPRING.	8	
8	4812331218	VALVE SPRING	8	
9	4812331217	VALVE CUP	8	
10	4812331220	VALVE COLLET (3-GROOVE)	16	
*11	4812331413	CYLINDER HEAD ASSY. WITH VG&VSI (FOR MODIFIED VALVE GEOMETRY)	1	CONSISTING OF SR. NO. 12 TO 15 & 19 TO 25

TITLE: - CYLINDER HEAD ASSEMBLY


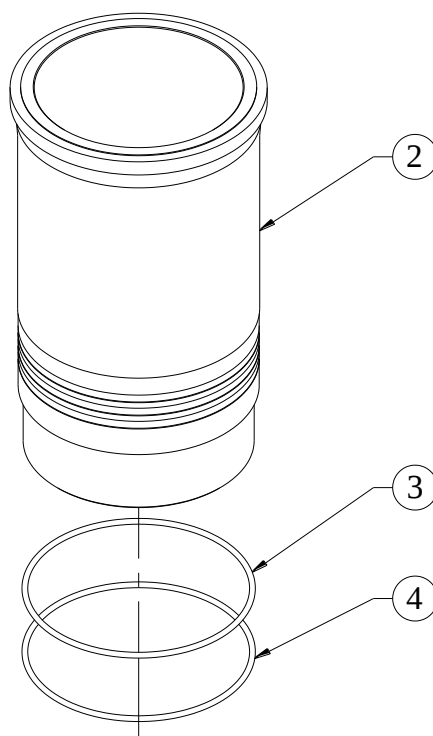
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
12	-	CYLINDER HEAD FINISH (FOR MODIFIED VALVE GEOMETRY)	1	NOT SUPPLIED LOOSE
13	4812332328	VALVE SEAT INSERT (INLET) SEMIFINISH	4	
14	4812332329	VALVE SEAT INSERT (EXHAUST) SEMI-FINISH	4	
*15	4812331367	ASSEMBLY OF SEMIFINISH VALVE GUIDE & SNAP RING	8	CONSISTING OF SR. NO. 16
*16	4812331366	ASSEMBLY OF SEMIFINISH VALVE GUIDE & SNAP RING	1	CONSISTING OF SR. NO. 17, 18
17	4812332327	VALVE GUIDE (SEMI-FINISH)	1	
18	4812331219	WIRE SNAP RING	1	
19	4812331327	CRANK SHAFT PLUG - ALUMINIUM	5	
20	4812331328	WASHER FOR ALU.PLUG.	5	
21	4812331600	CORE PLUG-HEXAGONAL SOCKET HEAD(DIN-908)	1	
22	4812331582	COPPER WASHER (18X22)	1	

TITLE: - CYLINDER HEAD ASSEMBLY

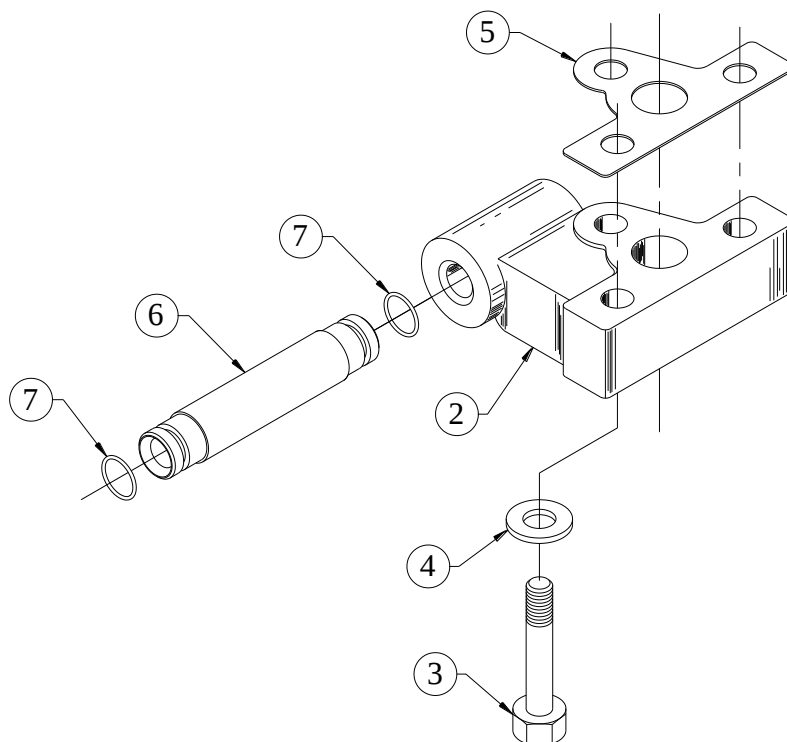


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
23	4812331601	CORE PLUG	3	
24	4812331586	COPPER WASHER (26X32)	3	
25	4812331614	SEALING CAP	3	
26	4812331546	STUD - M8X1.25X120 - 8.8	5	
27	4812331544	STUD - M8 X1.25 X 65 MM - 8.8 GRADE	3	
28	4812331566	SPRING WASHER - M8	8	
29	4812331540	NUT- M8X1.25 - GR.8.8	8	
30	4812331548	STUD - M10X1.5X75 - 8.8	4	
31	4812331547	STUD - M10X1.5X50 - 8.8	4	
32	4812331365	CORE PLUG(FOR CYL.HEAD)	1	
33	4812331577	COPPER WASHER (12X16)	1	
34	4812331373	JOINT FOR WATER OUTLET MANIFOLD	1	
35	4812331362	BOLT FOR CYLINDER HEAD.	18	
36	4812331216	WASHER	8	
37	4812331542	NUT - M10X1.5 - GR.8.8	8	

TITLE: -CYLINDER LINER.

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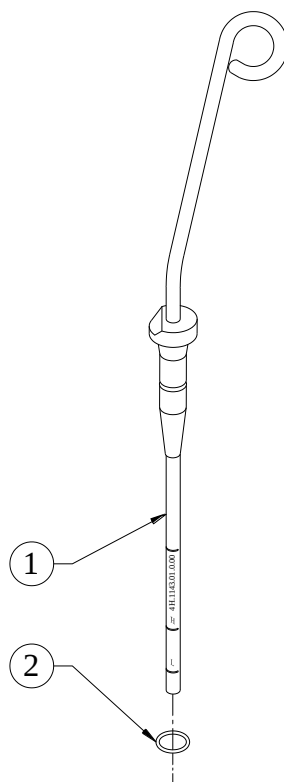
TITLE:- DELIVERY BODY



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331307	DELIVERY BODY ASSEMBLY	1	CONSISTING OF SR. NO. 2, 6 & 7
2	4812331306	DELIVERY BODY	1	
3	4812331508	SET BOLT - M8X1.25X45 - 8.8	3	
4	4812331569	PLAIN MACHINED WASHER - M8	3	
5	4812331308	JOINT FOR DELIVERY BODY	1	
6	4812331309	DELIVERY TUBE	1	
7	4812331310	'O' RING (FOR DELIVERY TUBE)	2	



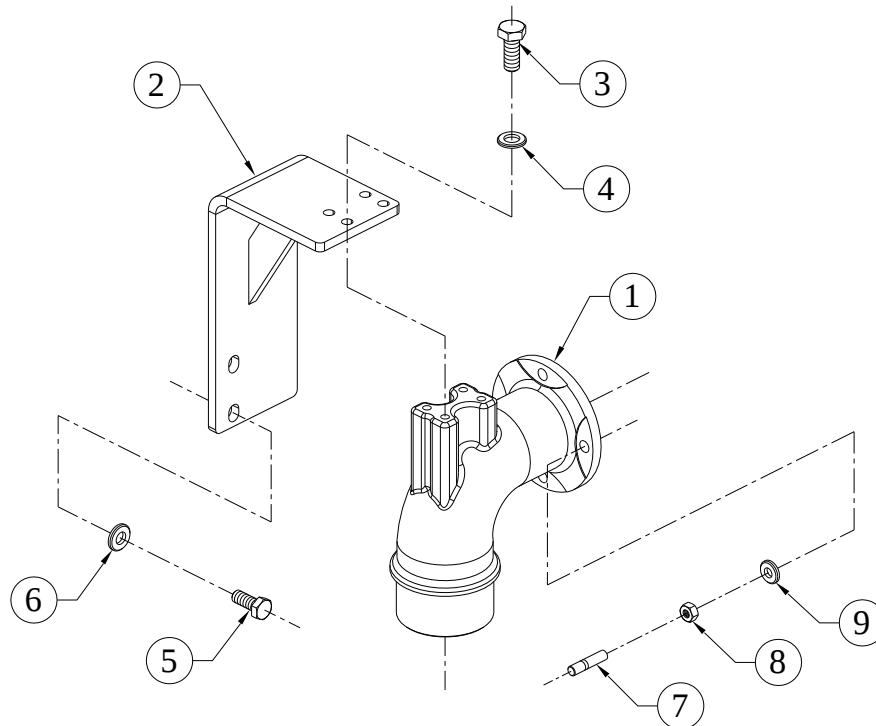
**TITLE: - DIPSTICK FABRICATED
FLAT OIL SUMP**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331390	ASSEMBLY DIPSTICK FOR MODIFIED SUMP	1	
2	4812331250	O RING - DIPSTICK	1	



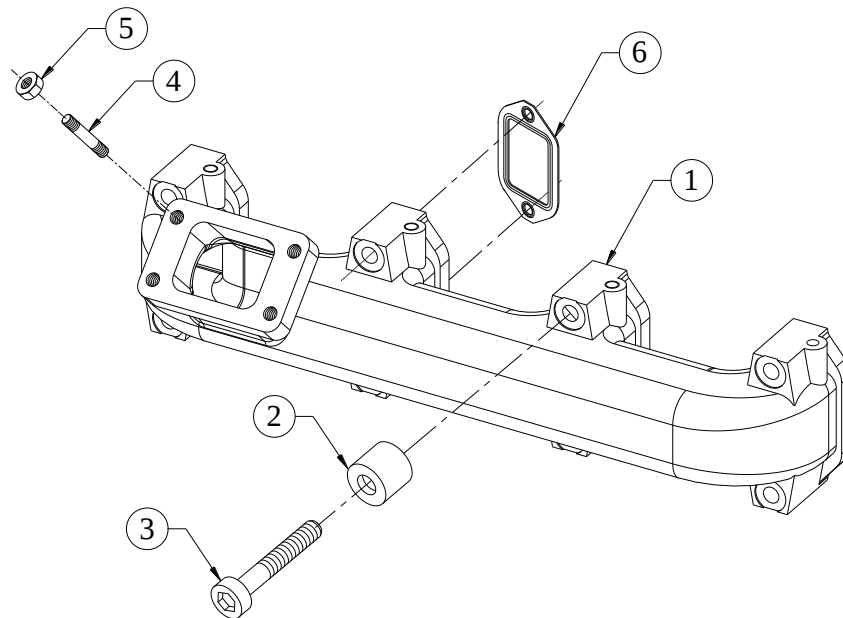
TITLE: - EXHAUST DIFFUSER ASSEMBLY



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331462	EXHAUST DIFFUSER	1	
2	4812331461	BRACKET FOR EXHAUST DIFFUSER	1	
3	4812331527	SET SCREW - M8X1.25X20 - 8.8	4	
4	4812331569	PLAIN MACHINED WASHER - M8	4	
5	4812331534	SET SCREW - M10X1.5X25 - 8.8	2	
6	4812331594	SPECIAL PLAIN WASHER - M10	2	
7	4812331617	STUD M8 (COPPER COATED)	4	
8	4812331593	SPL. PLAIN M/CED WASHER	4	
9	4812331558	NUT (SS) - M8x1.25	4	



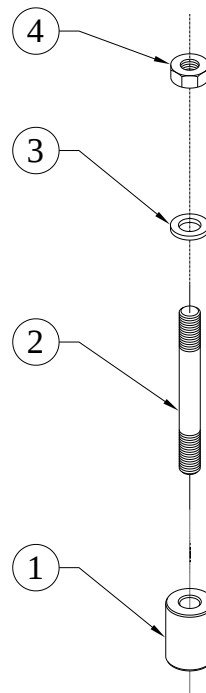
**TITLE: - EXHAUST MANIFOLD GE TOP
INCLIND OPEN**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331429	EXHAUST MANIFOLD FOR K-26 TURBOCHARGER	1	
2	4812331383	SPACER (FOR EXT.MANIFOLD)	8	
3	4812331553	SOCKET HEAD CAP BOLT M8X60 LONG	8	
4	4812331543	STUD - M8X1.25X25 - 8.8	4	
5	4812331559	NUT (SS) - M8x1.25	4	
6	4812331620	S.S. JOINT FOR EXHAUST MANIFOLD	4	



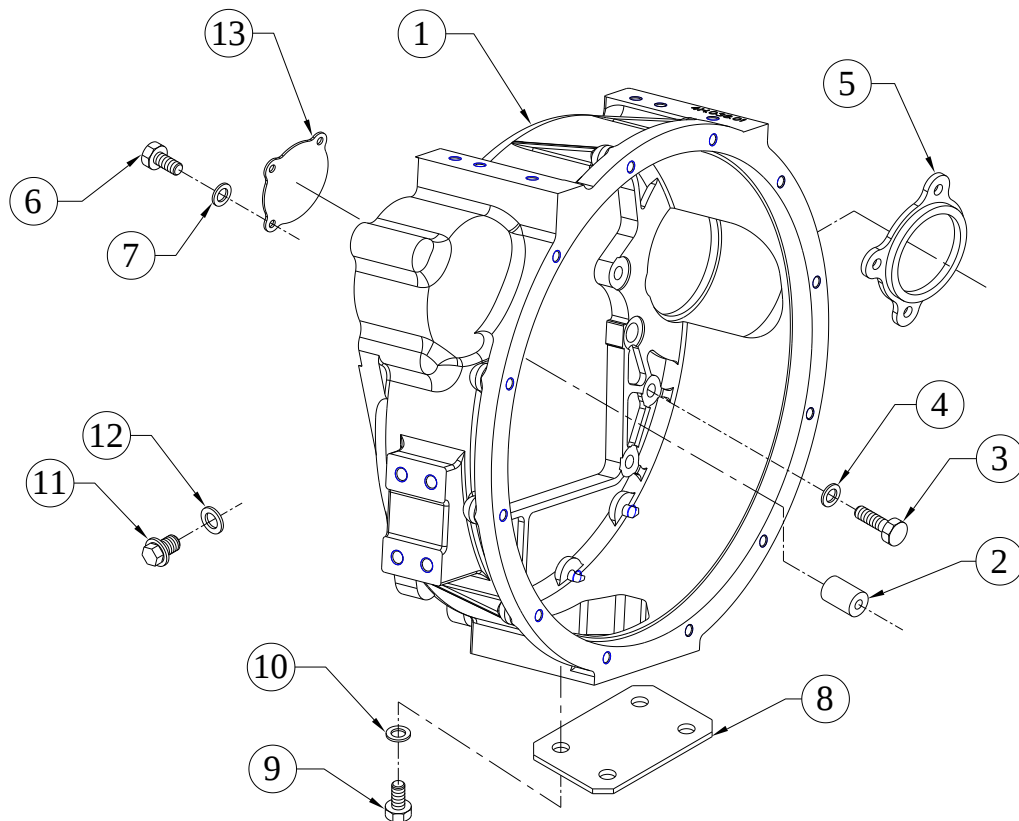
TITLE: - FAN MOUNTING



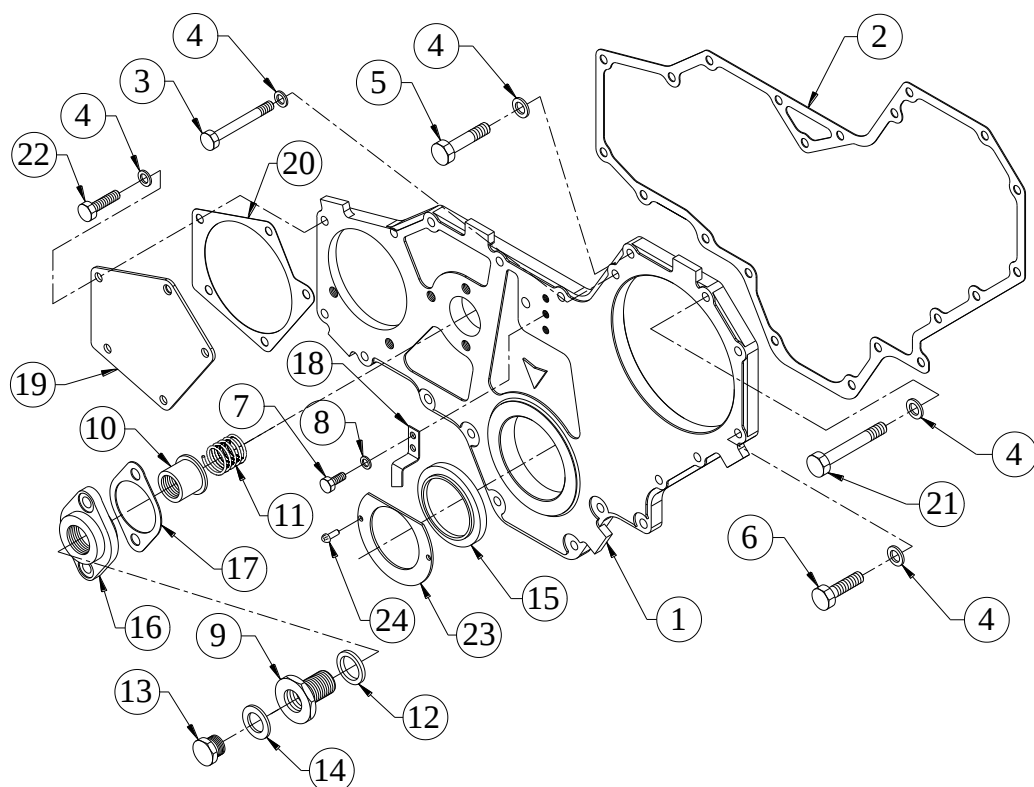
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331487	SPACER FOR CONTROL PANEL	8	
2	4812331545	STUD	4	
3	4812331570	PLAIN MACHINED WASHER - M8	4	
4	4812331540	NUT- M8X1.25 - GR.8.8	4	



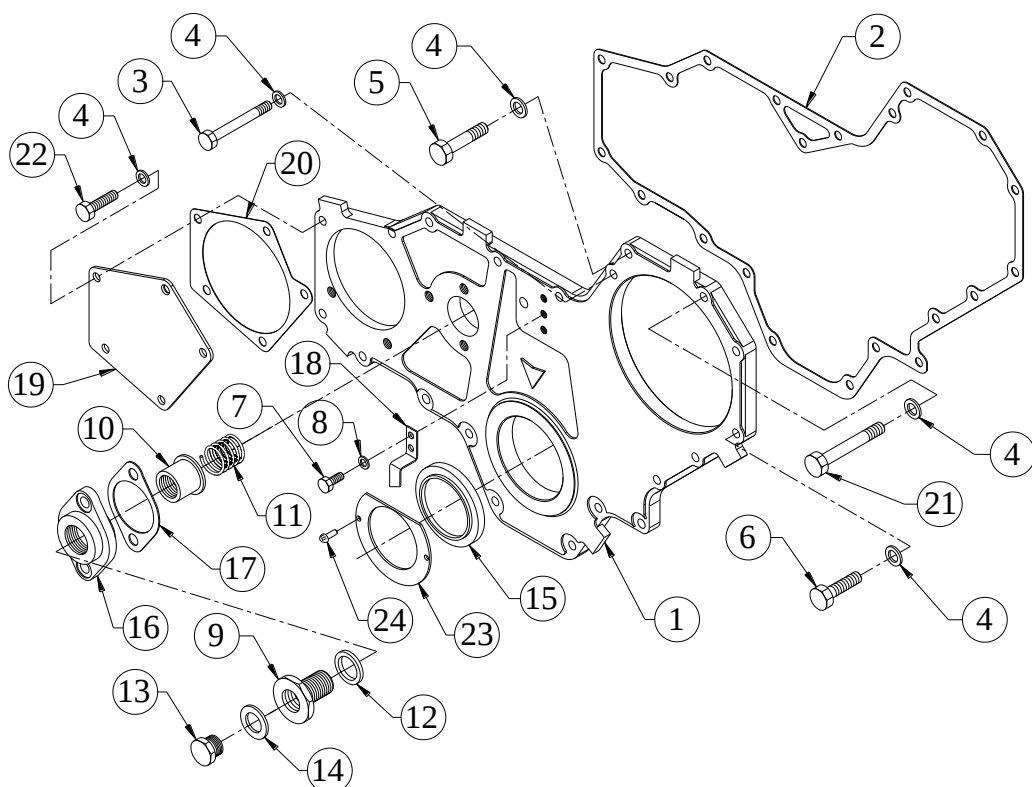
**TITLE :- FLYWHEEL HOUSING
TWO STARTER B**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331494	FLYWHEEL HOUSING TWO STARTER BORES OF 100MM DIA	1	
2	4812331355	HOLLOW DOWEL	2	
3	4812331556	SET BOLT-M10X30-10.9	8	
4	4812331222	WASHER	8	
5	4812331377	FLANG FOR STARTER 13 TOTAL AND 6 MM EFFECTIVE WIDTH	1	
6	4812331533	SET SCREW - M10X1.5X20 - 8.8	9	
7	4812331572	PLAIN MACHINED WASHER - M10	9	
8	4812331253	COVER FOR FLY WHEEL HSG	1	
9	4812331526	SET SCREW - M8X1.25X16 - 8.8	4	
10	4812331570	PLAIN MACHINED WASHER - M8	4	
11	4812331598	CORE PLUG 16X1.5	1	
12	4812331581	COPPER WASHER (17X23)	1	
13	4812331493	BLANKING PLATE (STARTER BORE)	1	

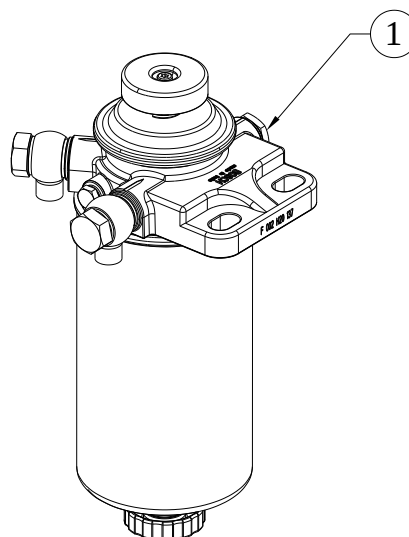
TITLE: - FRONT COVER (FOR HYDRAULIC PUMP GEAR BORE ON COMPACT GEAR CASING FOR 4R ENGINES)


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331386	FRONT COVER (FOR HYDRAULIC PUMP GEAR BORE)	1	
2	4812331473	JOINT FOR FRONT COVER	1	
3	4812331516	SET BOLT - M8X1.25X80 - 8.8	2	
4	4812331570	PLAIN MACHINED WASHER - M8	22	
5	4812331504	SET BOLT - M8X1.25X30 - 8.8	9	
6	4812331530	SET SCREW - M8X1.25X25 - 8.8	4	
7	4812331524	SET SCREW - M6X1X12 - 8.8	2	
8	4812331568	PLAIN MACHINED WASHER - M6	2	
9	4812331255	ADAPTOR (FOR TD UNIT)	1	
10	4812331247	CUP FOR SPRING	1	
11	4812331246	SPRING FOR CUP	1	
12	4812331585	COPPER WASHER (24X29)	1	
13	4812331326	PRECOATED CORE PLUG (FOR MAIN OIL GALLERY FWE SIDE)	1	
14	4812331583	COPPER WASHER (18X24)	1	

TITLE: - FRONT COVER (FOR HYDRAULIC PUMP GEAR BORE ON COMPACT GEAR CASING FOR 4R ENGINES)


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
15	4812331474	GEAR END OIL SEAL	1	
16	4812331485	ADAPTOR FOR TACHO DRIVE UNIT	1	
17	4812331486	JOINT FOR TACHO DRIVE UNIT ADAPTOR	1	
18	4812331503	TIMING POINTER	1	
19	4812331387	COVER (FOR HYDRAULIC PUMP GEAR BORE)	1	
20	4812331388	JOINT FOR COVER PLATE	1	
21	4812331514	SET BOLT - M8X1.25X75 - 8.8	2	
22	4812331528	SET SCREW - M8X1.25X20 - 8.8	5	
23	4812331475	OIL DEFLECTOR PLATE	1	
24	4812331589	ROUND HEAD RIVET	2	

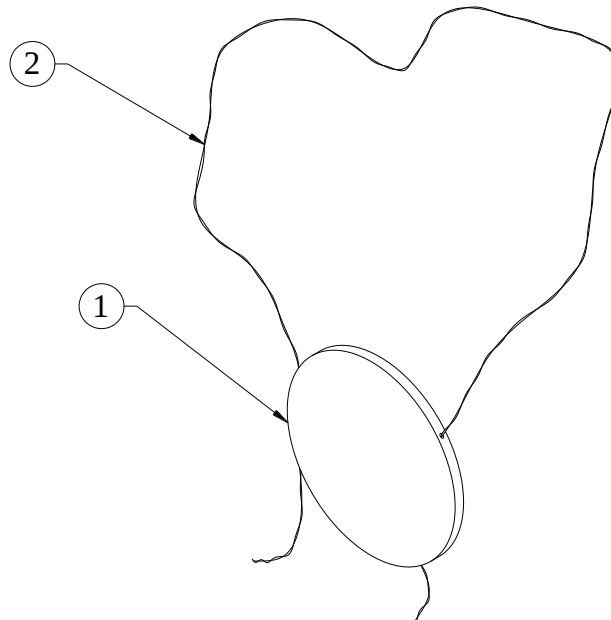
**TITLE: - FUEL FILTER ASSEMBLY SUITABLE
(WITHOUT HAND PRIMER)**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331349	FUEL FILTER ASSEMBLY SUITABLE FOR ROTARY FIP (WITHOUT HAND PRIMER)	1	CONSISTING OF SR. NO. 2
*2	4812332063	FUEL FILTER CARTRIDGE SUITABLE FOR ROTARY FIP	1	NOT ILLUSTRATED

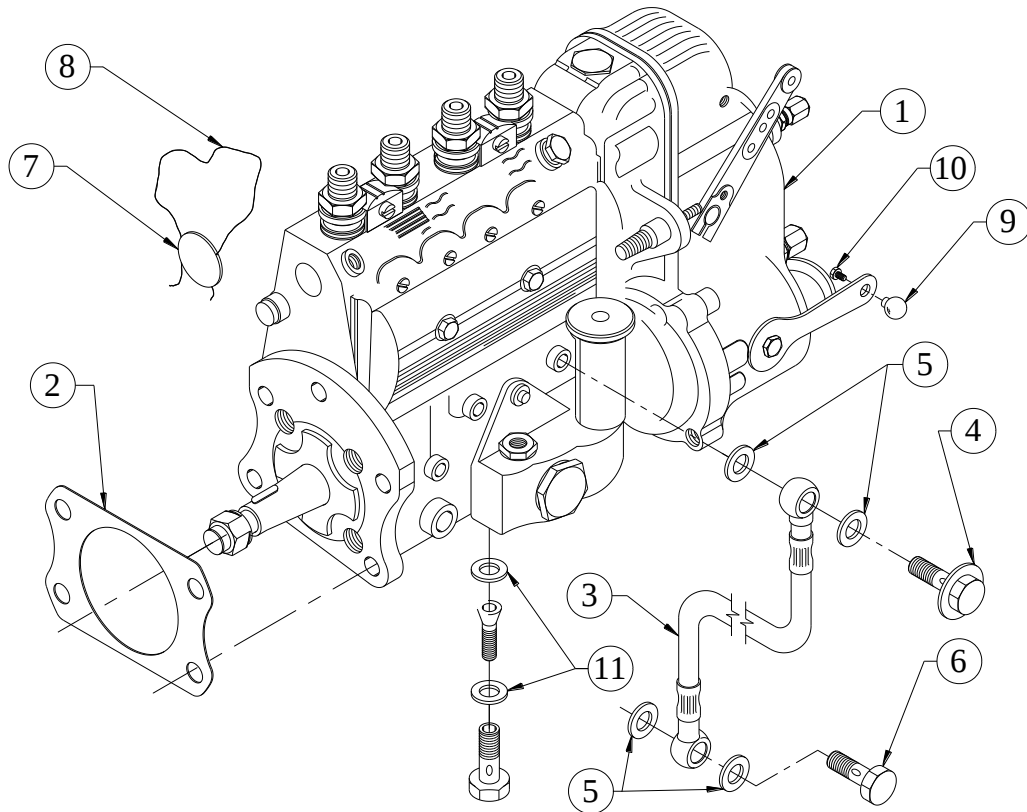


TITLE: - FUEL INJECTION PUMP (STAGE II)



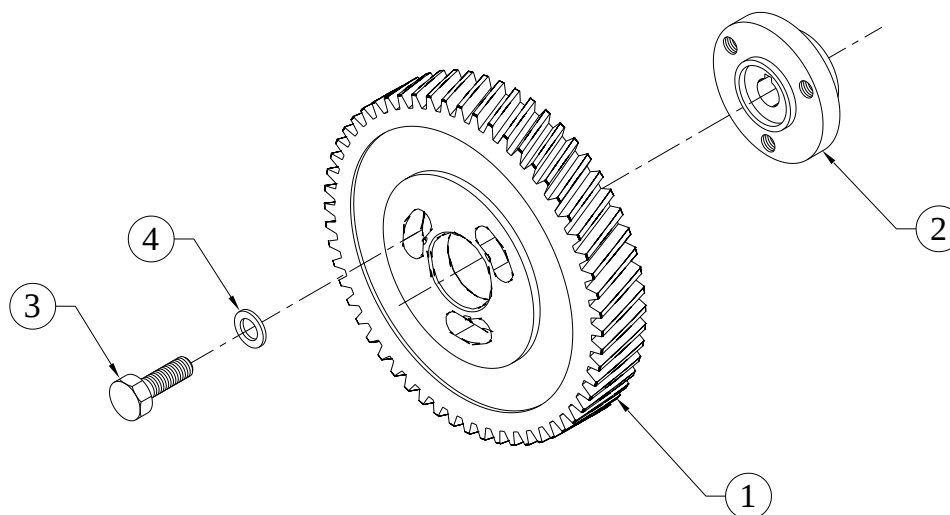
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331287	LEAD SEAL	1	
2	4812331288	SEALING WIRE	1	



TITLE: - FUEL INJECTION PUMP 4R1040T
105 HP AT 2200 RPM (CMVR STAGE-II)


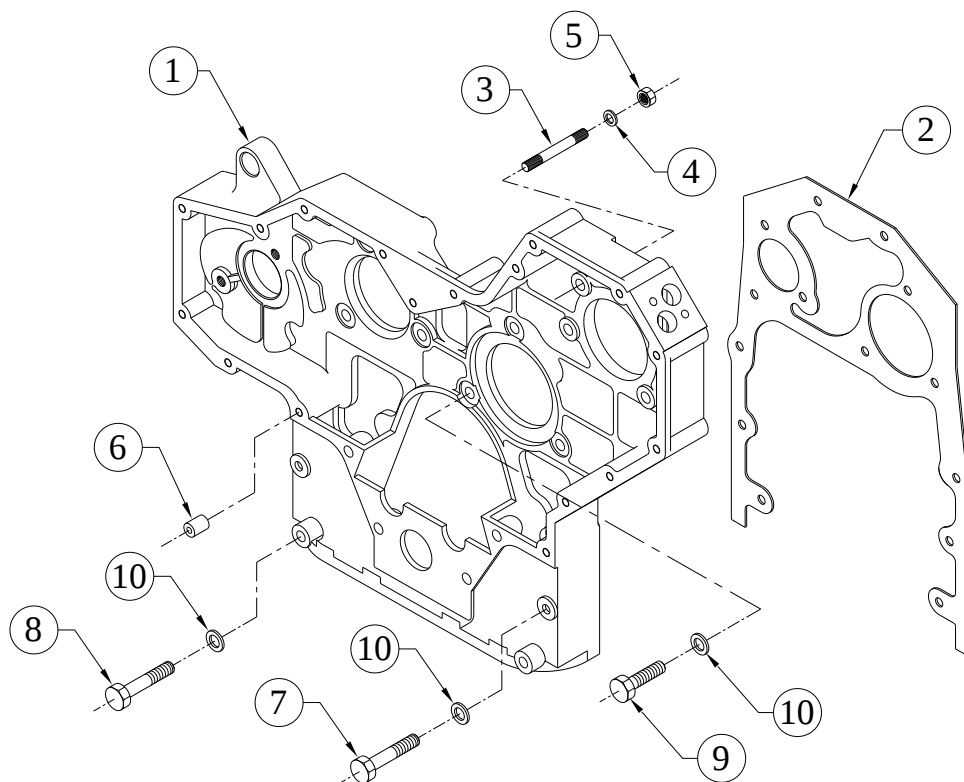
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331447	FUEL INJECTION PUMP (TURBO ENGINE)	1	
2	4812331331	JOINT FOR FUEL PUMP (NON ASBESTOS)	1	
3	4812331360	LUB OIL SUPPLY PIPE, CRANKCASE TO FUEL PUMP	1	
4	4812331257	SPECIAL BANJO BOLT (L.O.SUPPLY TO PUMP)	2	
5	4812331575	COPPER WASHER (10X14)	4	
6	4812331565	BANJO BOLT - M14X1.5	3	
7	4812331287	LEAD SEAL	1	
8	4812331288	SEALING WIRE	1	
9	4812331602	KNOB FOR HANDLE	1	
10	4812331524	SET SCREW - M6X1X12 - 8.8	1	
11	4812331580	COPPER WASHER (14X20)	6	

TITLE: - FUEL PUMP GEAR

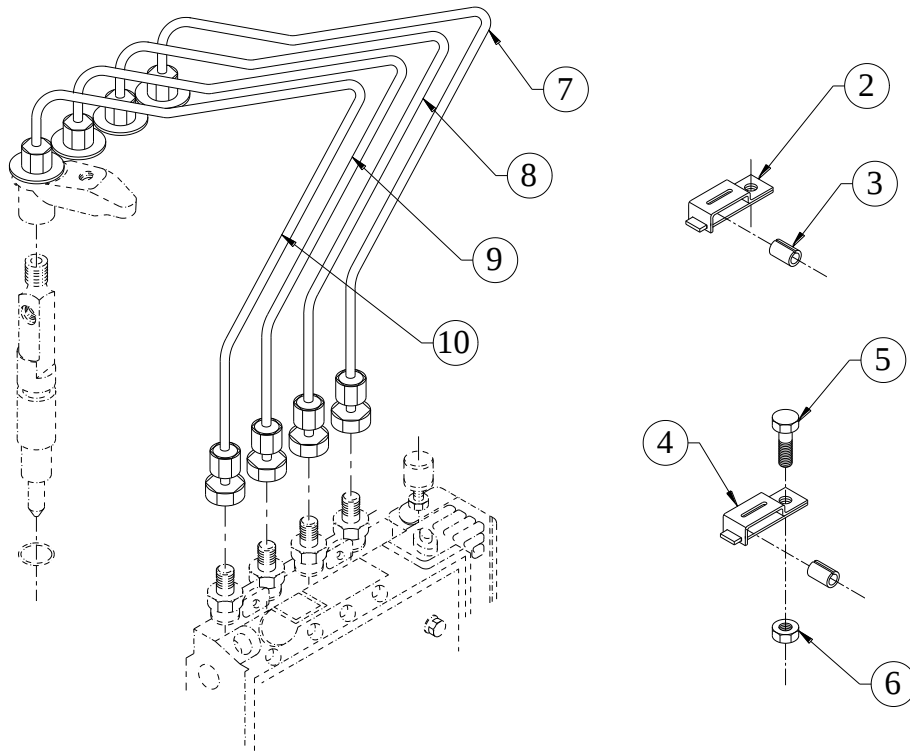


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331304	FUEL PUMP GEAR (FINISH)	1	
2	4812331305	HUB FOR FUEL PUMP GEAR (FINISH)	1	
3	4812331529	SET SCREW - M8X1.25X25 - 8.8	3	
4	4812331332	WASHER FOR FUEL PUMP GEAR	3	



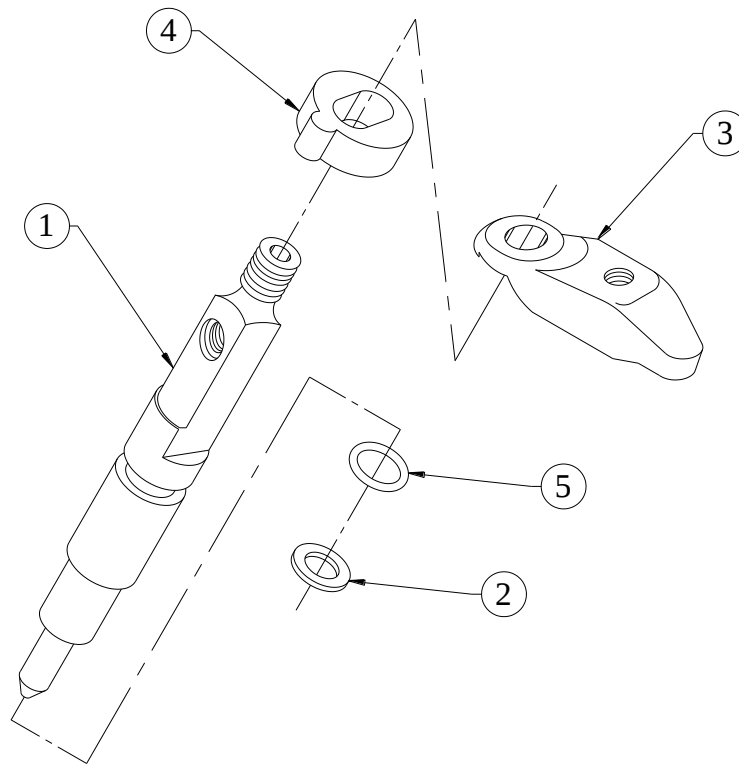
TITLE: - GEAR CASING (FOR HYDRAULIC PUMP MTG)


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331382	GEAR CASING (FOR HYDRAULIC PUMP MOUNTING AND INCLINED OIL FILLING)	1	
2	4812331293	JOINT FOR GEAR COVER	1	
3	4812331232	PRECOATED STUD (FOR FUEL PUMP MOUNTING)	4	
4	4812331239	WASHER (FOR FUEL PUMP MTG)	4	
5	4812331542	NUT - M10X1.5 - GR.8	4	
6	4812331324	DOWEL FOR GEAR CASING	2	
7	4812331512	SET BOLT - M8X1.25X70 - 8.8	2	
8	4812331515	SET BOLT - M8X1.25X80 - 8.8	2	
9	4812331529	SET SCREW - M8X1.25X25 - 8.8	7	
10	4812331569	PLAIN MACHINED WASHER - M8	11	

TITLE: - HIGH PRESSURE PIPE


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331466	HIGH PRESSURE PIPE SET	1	CONSISTING OF SR. NO. 2 TO 10
2	4812331591	PIPE CLIP. (FOR 3 PIPES)	1	
3	4812331229	RUBBER SLEEVE	7	
4	4812331592	PIPE CLIP (FOR 4 PIPES)	1	
5	4812331524	SET SCREW - M6X1X12 - 8.8	2	
6	4812331538	NUT - M6X1 - GR.8	2	
7	4812331467	H.P.PIPE ASSLY FOR CYL.NO.1	1	
8	4812331468	H.P.PIPE ASSLY FOR CYL.NO.2	1	
9	4812331469	H.P.PIPE ASSLY FOR CYL.NO.3	1	
10	4812331470	H.P.PIPE ASSLY FOR CYL.NO.4	1	

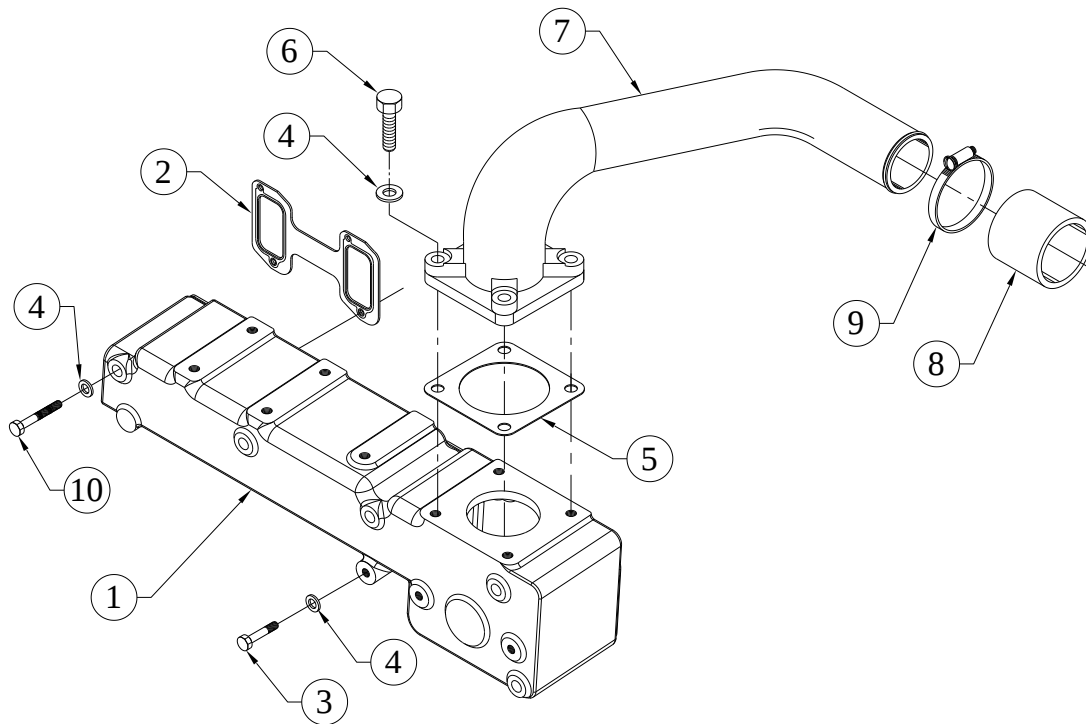
**TITLE: -INJECTOR & MOUNTING OF CMVR
STAGE-II FOR 4R1040T ENGINE**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331428	ASSEMBLY OF INJECTOR OF CMVR STAGE-II (E F43 1267 00) FOR 4R1040T	1	
2	4812331289	WASHER FOR INJ.	1	
3	4812331313	INJECTOR YOKE.	1	
4	4812331228	BUSH FOR INJECTOR	1	
5	4812331341	O RING FOR NOZZLE	1	

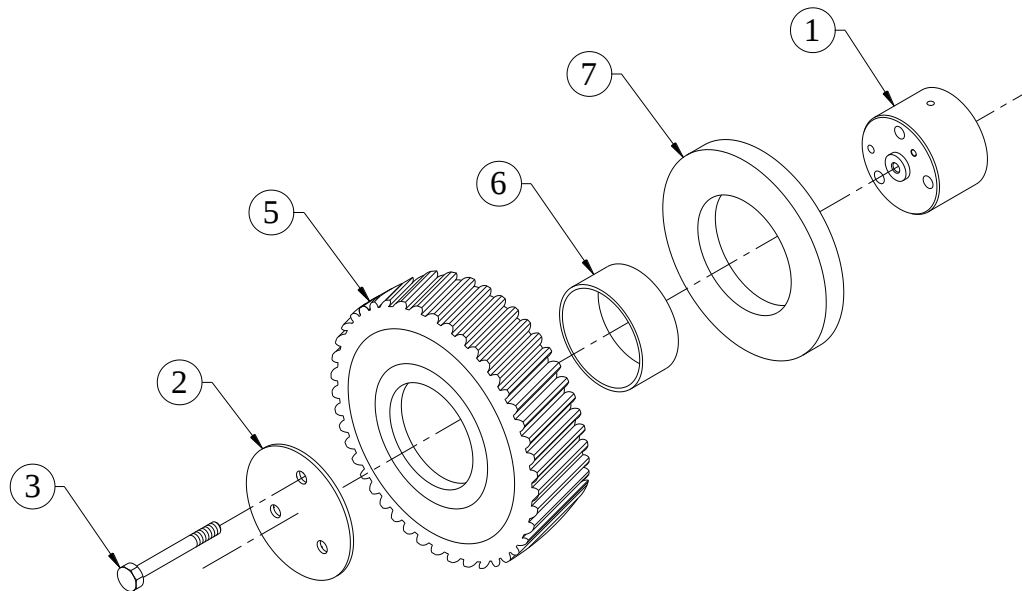


**TITLE: - INLET MANIFOLD (VAVE) FOR FEW
EXHAUST TURBO OUTLET**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331472	INLET MANIFOLD (TOP OPENING)	1	
2	4812331375	JOINT FOR AIR INLET MANIFOLD	2	
3	4812331511	SET BOLT - M8X1.25X65 - 8.8	3	
4	4812331570	PLAIN MACHINED WASHER - M8	12	
5	4812331606	JOINT (FOR AIR PIPE)	1	
6	4812331531	SET SCREW - M8X1.25X30 - 8.8	4	
7	4812331430	AIR PIPE TURBOCHARGER TO INLET MANIFOLD	1	
8	4812331286	RUBBER HOSE (TURBO AIR OUTLET)	1	
9	4812331323	HOSE CLIP	2	
10	4812331520	SET BOLT - M8X1.25X120 - 8.8	5	



**TITLE: - INTERMEDIATE GEAR AND SUPPORT
(FOR ENGINE W/O AUTO TIMER)**


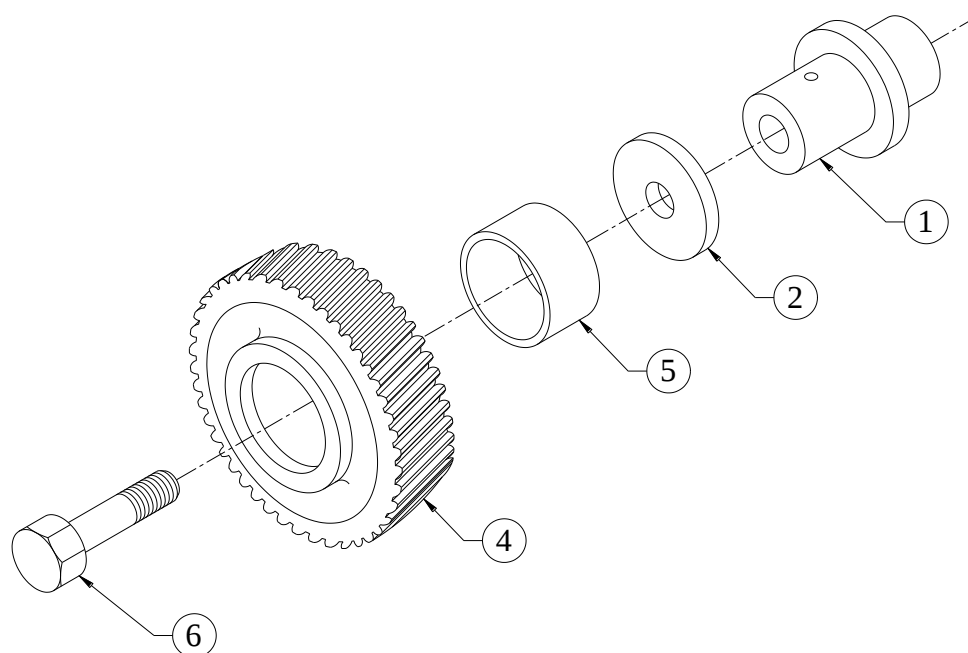
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331464	INTERMEDIATE GEAR SUPPORT	1	
2	4812331292	RETAINING PLATE (FOR INT.GEAR)	1	
3	4812331513	SET BOLT - M8X1.25X70 - 8.8	3	
*4	4812331318	ASSLY OF INTERMEDIATE GEAR & BUSH	1	CONSISTING OF SR. NO. 5 TO 6
5	-	INTERMEDIATE GEAR(FINISH)	1	NOT SUPPLIED LOOSE
6	-	BUSH FOR INTERMEDIATE GEAR	1	NOT SUPPLIED LOOSE
7	4812331316	THRUST WASHER	1	



TITLE: - OIL (CF4 GRADE) & Coolant

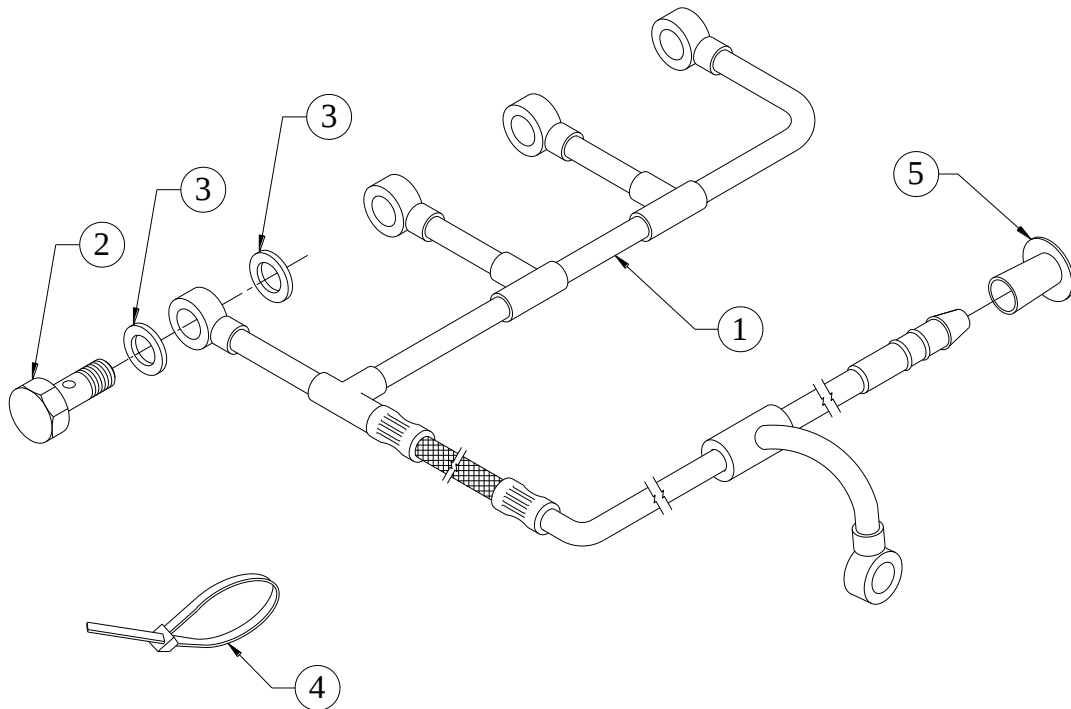
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	-	Kobelco 15W40	11.5	Alternate oil
*1	-	PTT SAE 15W-40	11.5	Alternate oil
*1	-	Meditran SX ultra SAE 15W40 (CI-4)	11.5	Alternate oil
*2	-	Coolant	18	NOT ILLUSTRATED
*2	-	Showa NA premix	18	Alternate oil
*2	-	CX DELO SLI CI PRE-MIXED	18	Alternate oil
*2	-	Pertamina Heavy Duty Coolant	18	Alternate oil
*2	-	Showa NA premix	18	Alternate oil



TITLE:- LOP INTERMEDIATE GEAR AND SUPPORT


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331481	SHAFT FOR LUB OIL PUMP (INTERMEDIATE GEAR)	1	
2	4812331482	HARD WASHER (FOR INT. GEAR)	1	
*3	4812331338	SUB.ASSLY.OF L.O.PUMP INT.GEAR AND BUSH.	1	CONSISTI. OF SR. NO. 4 & 5
4	-	INTERMEDIATE GEAR (FOR L.O.PUMP) (FINISH)	1	NOT SUPPLIED LOOSE
5	4812331330	BUSH FOR LEVER	1	
6	4812331514	SET BOLT - M8X1.25X75 - 8.8	1	

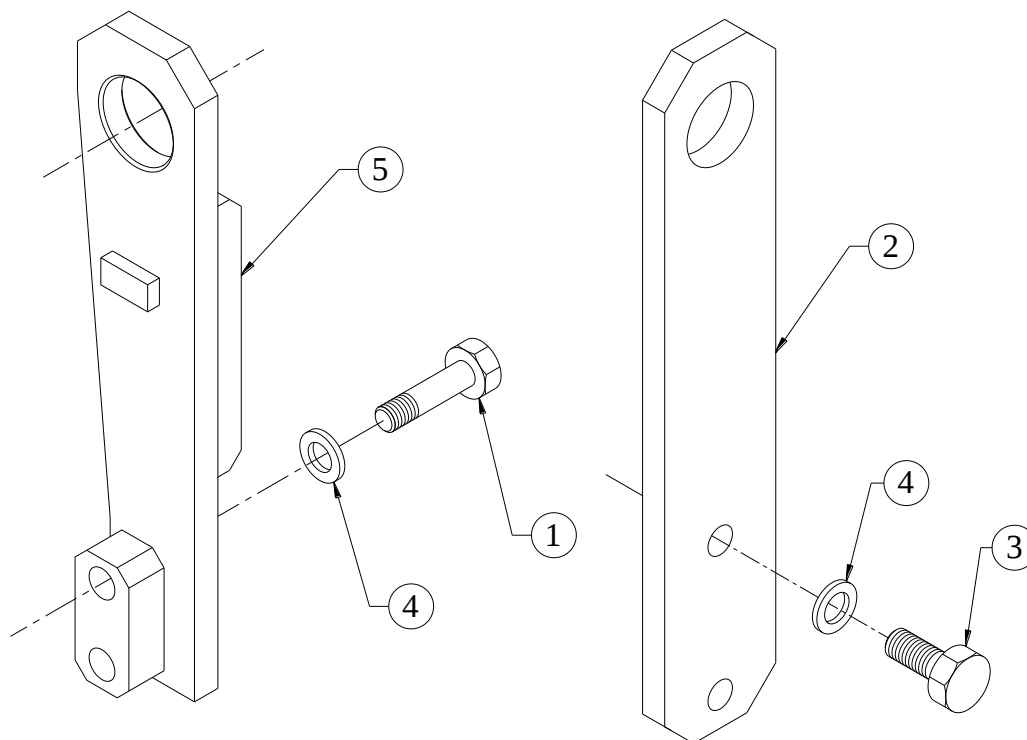
**TITLE:- LEAK OFF PIPE
(4R/4RT)**

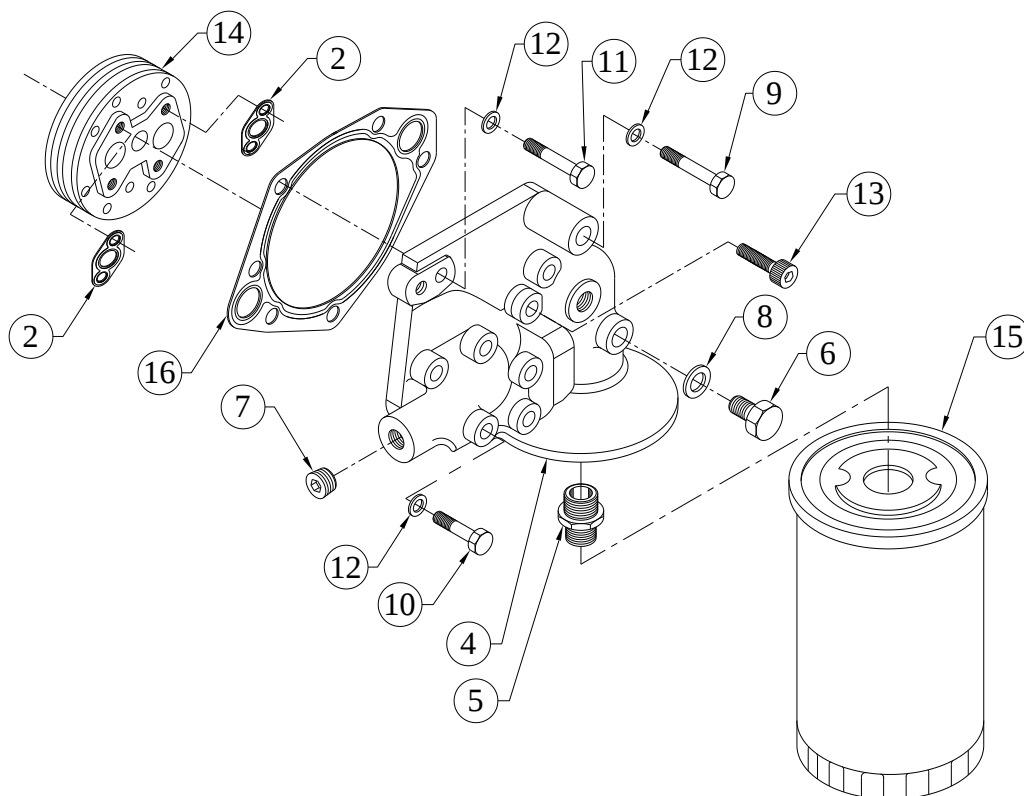


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331497	LEAK OFF PIPE ASSEMBLY	1	
2	4812331248	BANJO BOLT	4	
3	4812331574	COPPER WASHER (8X14)	8	
4	4812331371	PLASTIC CLAMP	1	
5	4812331370	SEALING CAP (FOR LEAK OFF OUTLET)	1	



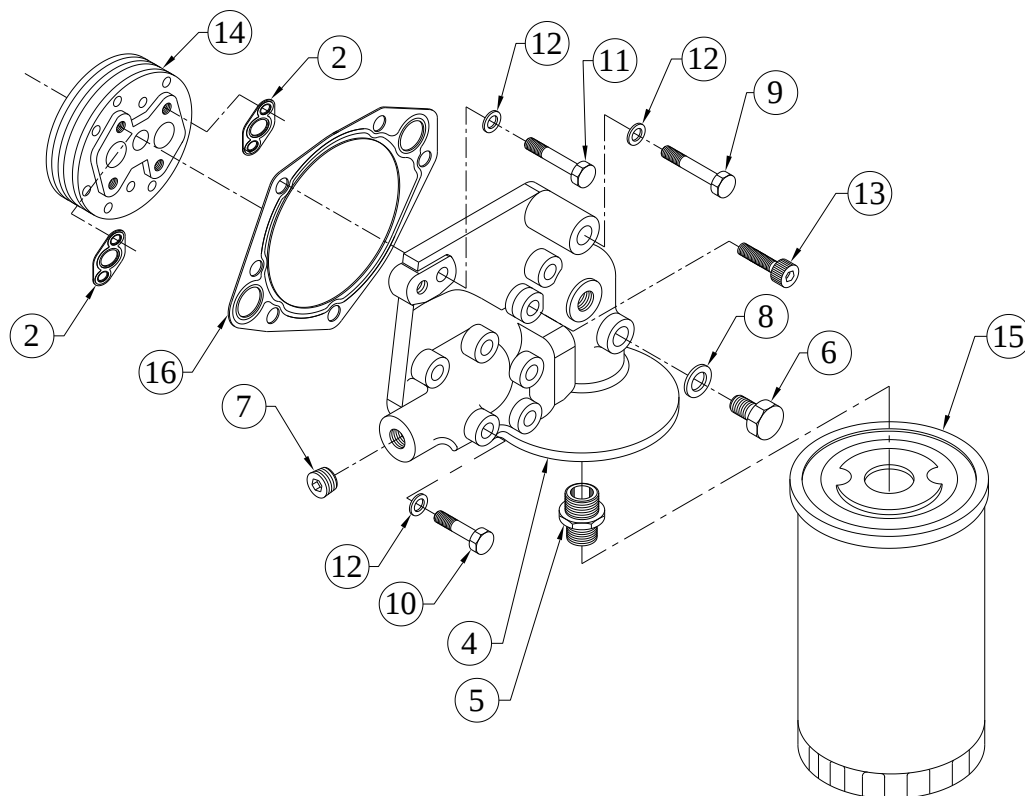
TITLE :- LIFTING HOOK (S/F 440 CRS WATER PUMP)

[illegible]

**TITLE: - LUB OIL COOLER (8 PLATE COOLER)
AND SPIN ON FILTER**


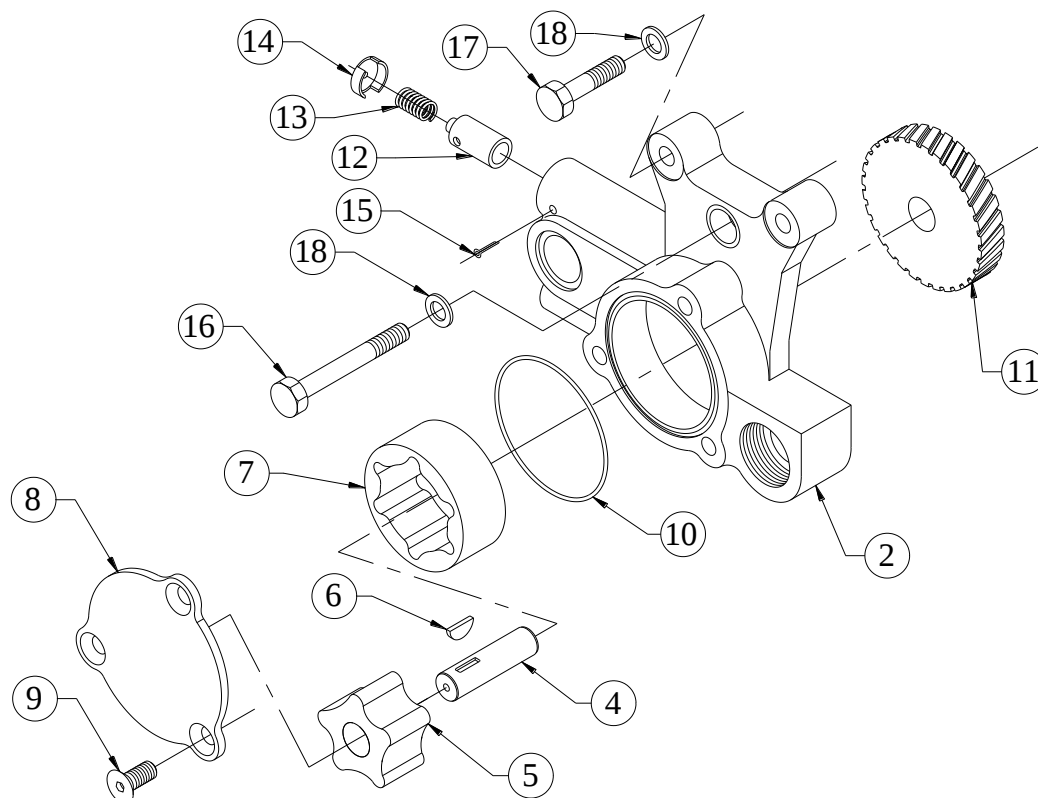
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331490	LUB OIL COOLER AND HEADER ASSEMBLY	1	CONSISTING OF SR. NO. 2,3 & 9 TO 14
2	4812331621	JOINT FOR LUB OIL COOLER	2	
*3	4812331491	LUB OIL COOLER HEADER ASSEMBLY	1	CONSISTING OF SR. NO. 4 TO 8
4	4812331422	HEADER FOR LUB OIL COOLER AND SPIN ON FILTER	1	
5	4812331339	ADAPTOR FOR SPIN ON FILTER	1	
6	4812331325	PRECOATED PLUG (FOR OIL GALLERY)	1	
7	4812331557	HEADLESS PIPE PLUG	2	
8	4812331576	COPPER WASHER	1	
9	4812331510	SET BOLT - M8X1.25X50 - 8.8	1	
10	4812331513	SET BOLT - M8X1.25X70 - 8.8	2	
11	4812331517	SET BOLT - M8X1.25X90 - 8.8	3	



**TITLE: - LUB OIL COOLER (8 PLATE COOLER)
AND SPIN ON FILTER**


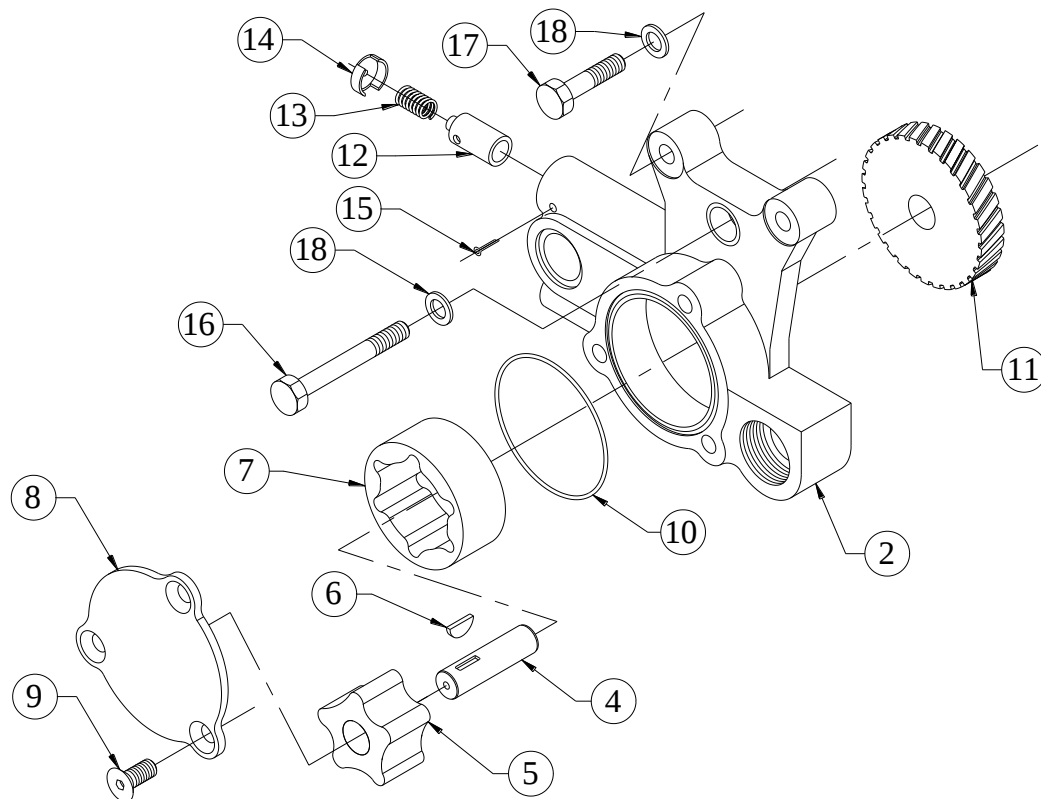
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
12	4812331570	PLAIN MACHINED WASHER - M8	6	
13	4812331552	SOCKET HEAD SCREW - M8X1.25X35 - 8.8	4	
14	4812331423	LUB OIL COOLER (8 PLATES)	1	
15	4812331797	SPIN ON FILTER FOR LUBRICATING OIL	1	
16	4812331340	JOINT FOR HEADER	1	



**TITLE: - LUB OIL PUMP (WITHOUT
INTERMEDIATE GEAR)**


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331603	LUBE.OIL PUMP ASSEMBLY.	1	CONSISTING OF SR. NO. - 2 & 3 & 7 TO 18
2	4812331604	SUB. ASSEMBLY OF L.O.PUMP BODY & BUSH.	1	
*3	4812331279	ROTOR ASSLY	1	CONSISTING OF SR. NO. - 4 TO 6
4	-	SHAFT	1	NOT SUPPLIED LOOSE
5	-	INNER ROTOR	1	NOT SUPPLIED LOOSE
6	-	WOODRUFF KEY	1	NOT SUPPLIED LOOSE
7	-	OUTER ROTOR	1	NOT SUPPLIED LOOSE
8	-	COVER PLATE	1	NOT SUPPLIED LOOSE
9	4812331274	COUNTER SUNK SOCKET HEAD SCREW.	3	

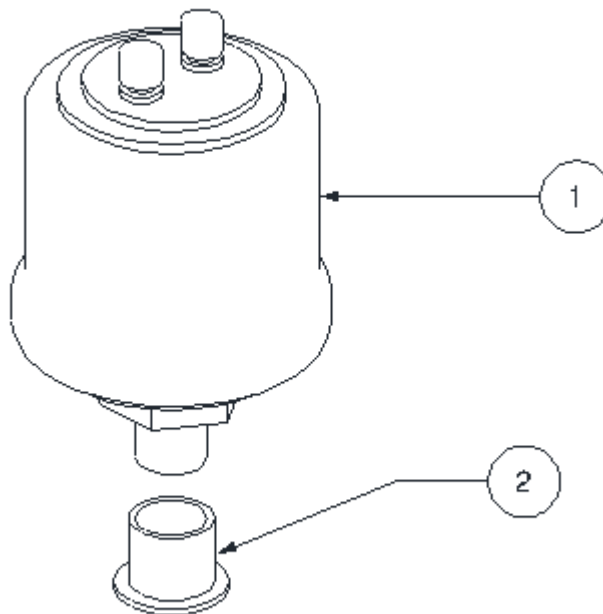
TITLE: - LUB OIL PUMP (WITHOUT INTERMEDIATE GEAR)



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
10	4812331242	O RING - L.O.PUMP	1	
11	4812331337	LUB.OIL PUMP DRIVING GEAR (FINISH)	1	
12	4812331243	RELIEF VALVE	1	
13	4812331245	SPRING (FOR RELIEF VALVE)	1	
14	4812331244	CUP FOR SPRING	1	
15	4812331555	SPLIT COTTER PIN - 1/8"X1-1/2"	1	
16	4812331514	SET BOLT - M8X1.25X75 - 8.8	1	
17	4812331506	SET BOLT - M8X1.25X35 - 8.8	2	
18	4812331570	PLAIN MACHINED WASHER - M8	3	



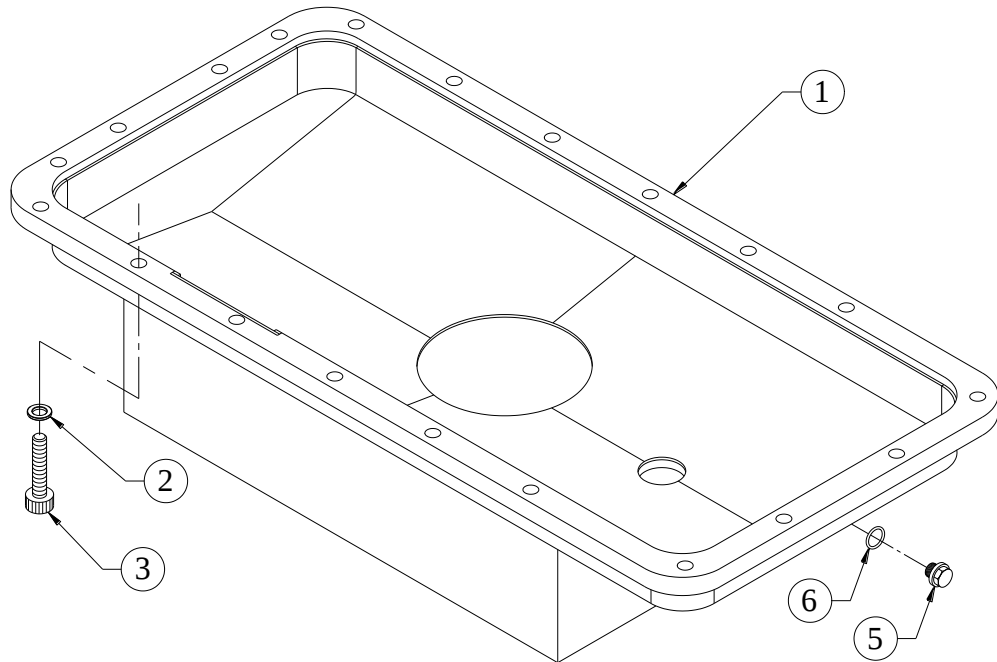
**TITLE: - LUBE OIL PR SENDOR (TWO
TERMINAL WITH BODY GROUND)**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331319	LUBE OIL PRESSURE SENDOR, (SENSOR + SWITCH), VDO SIEMENCE (INDIA), 2 TERMINAL, BODY GROUND WITH IMPORTED BOBBIN ASSEMBLY	1	
2	4812331347	RUBBER SLEEVE 38X10 FOR PR GAUGE SENDOR	1	



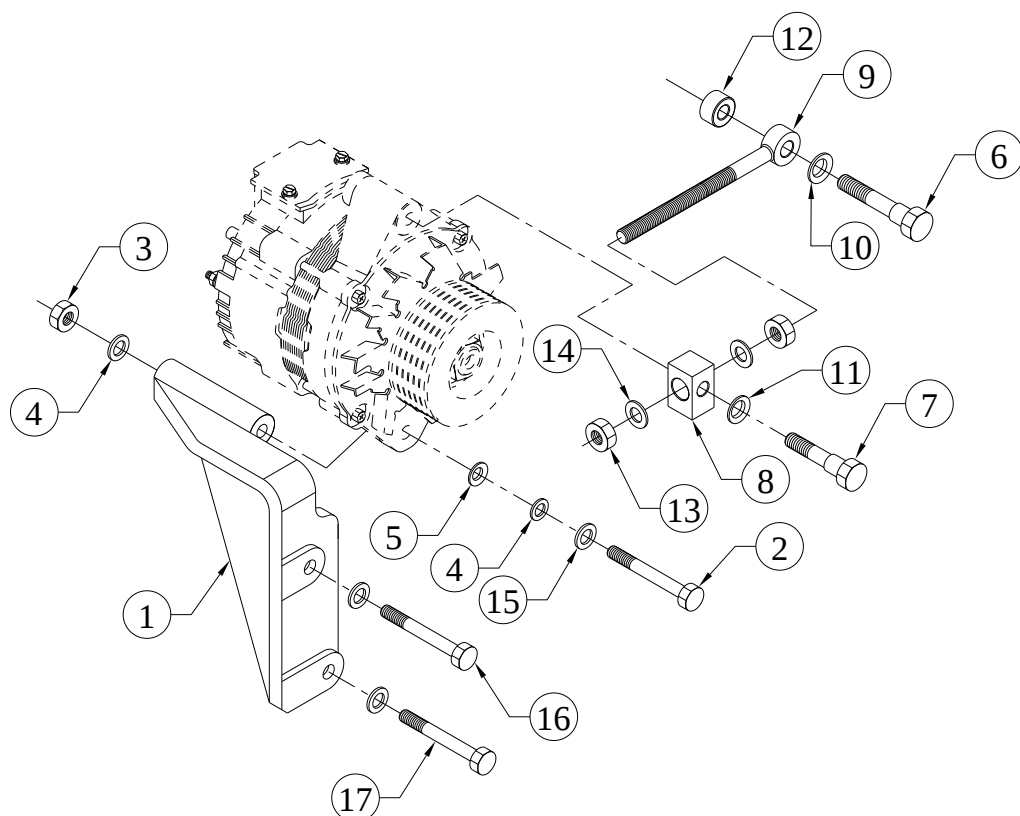
TITLE: - LUB OIL SUMP FABRICATED



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331499	LUBE OIL SUMP FABRICATED (35 DEG, 265 HT, DRAIN PLUG ON FWE & GE BOTH))	1	
2	4812331280	WASHER(SHEET METAL L.O.SUMP)	20	
3	4812331551	SOCKET HEAD SCREW - M8X1.25X25 - 8.8	20	
*4	4812331315	PLUG WITH MAGNET & 'O'RING.	2	CONSISTING OF SR. NO 5 & 6
5	4812331314	DRAIN PLUG ASSEMBLY.	2	
6	4812331615	O - RING FOR DRAIN PLUG	2	

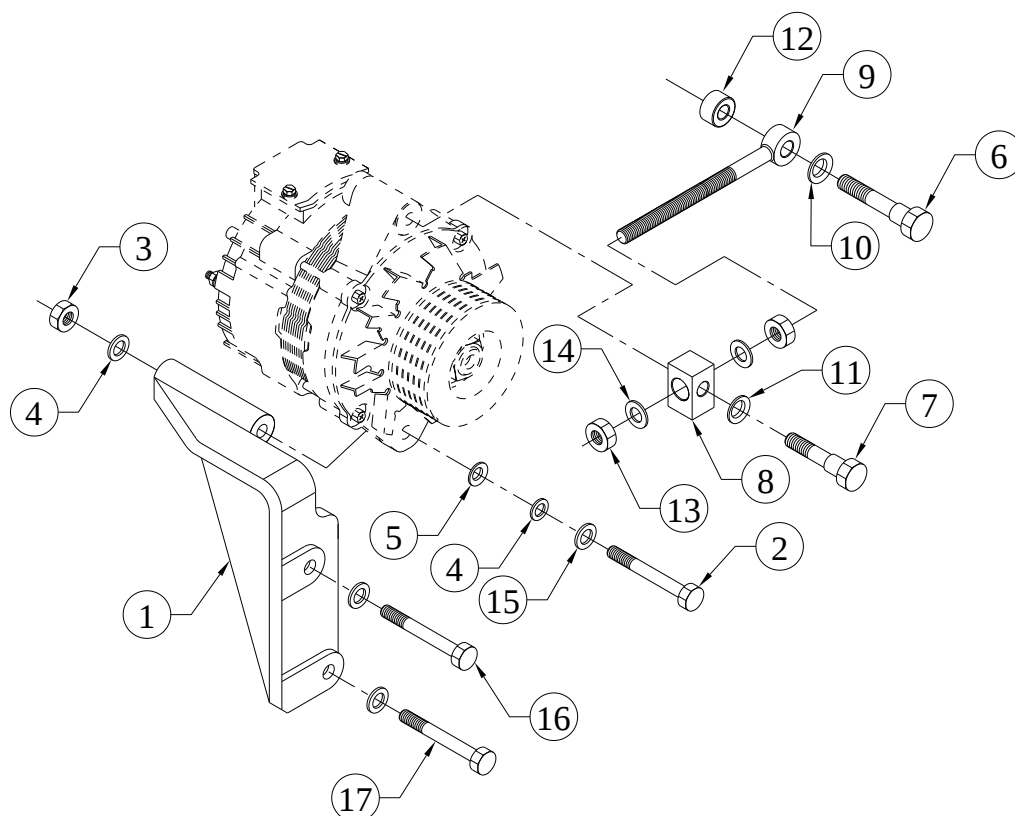


**TITLE: - MOUNTING ARRANGEMENT
(WITH HYD PUMP) ALTERNATOR
W/O PULLEY**

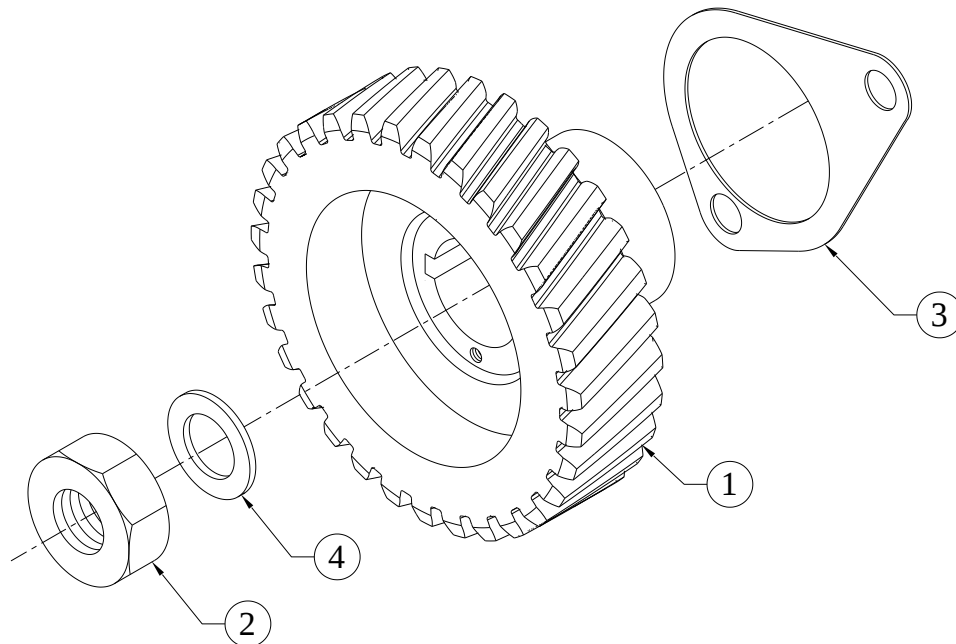


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331438	MOUNTING BRACKET FOR ALTERNATOR.	1	
2	4812331519	SET BOLT - M8X1.25X120 - 8.8	1	
3	4812331539	NUT- M8X1.25 - GR.8.8	1	
4	4812331569	PLAIN MACHINED WASHER - M8	2	
5	4812331593	SPL.PLAIN M/CED WASHER	1	
6	4812331384	LOCATING BOLT 80 MM (FOR EYE BOLT)	1	
7	4812331385	LOCATING BOLT 60 MM (FOR ALTERNATOR CLAMP)	1	
8	4812331471	SWIVEL PIECE	1	
9	4812331495	EYE BOLT (DIA.12 X 220 LENGTH)	1	
10	4812331596	SPL. PLAIN WASHER - M12	1	
11	4812331595	SPECIAL PLAIN WASHER - M10	1	
12	4812331492	SPACER 11 I.D. X 24 O.D. X 25.5 L	2	
13	4812331541	NUT - M10X1.5 - GR.8.8	2	
14	4812331571	PLAIN MACHINED WASHER - M10	2	
15	4812331332	WASHER FOR FUEL PUMP GEAR	2	

**TITLE: - MOUNTING ARRANGEMENT
(WITH HYD PUMP) ALTERNATOR
W/O PULLEY**

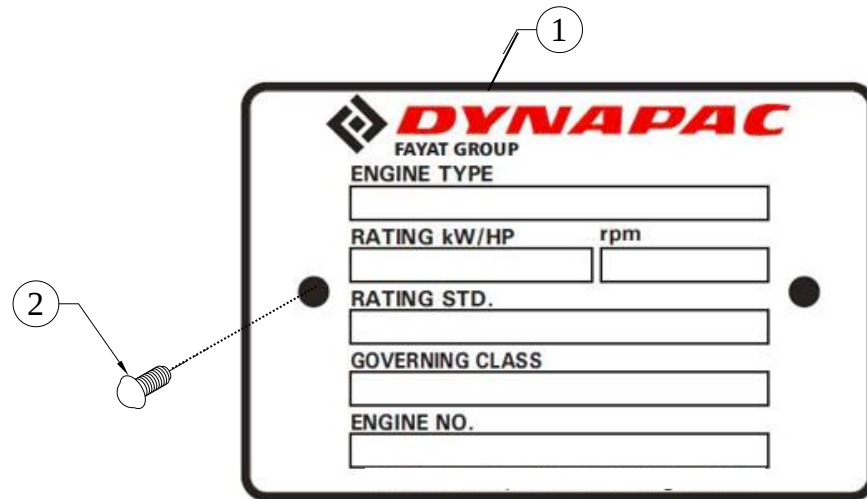
[illegible]

TITLE: - MTG.FOR HYD.PUMP

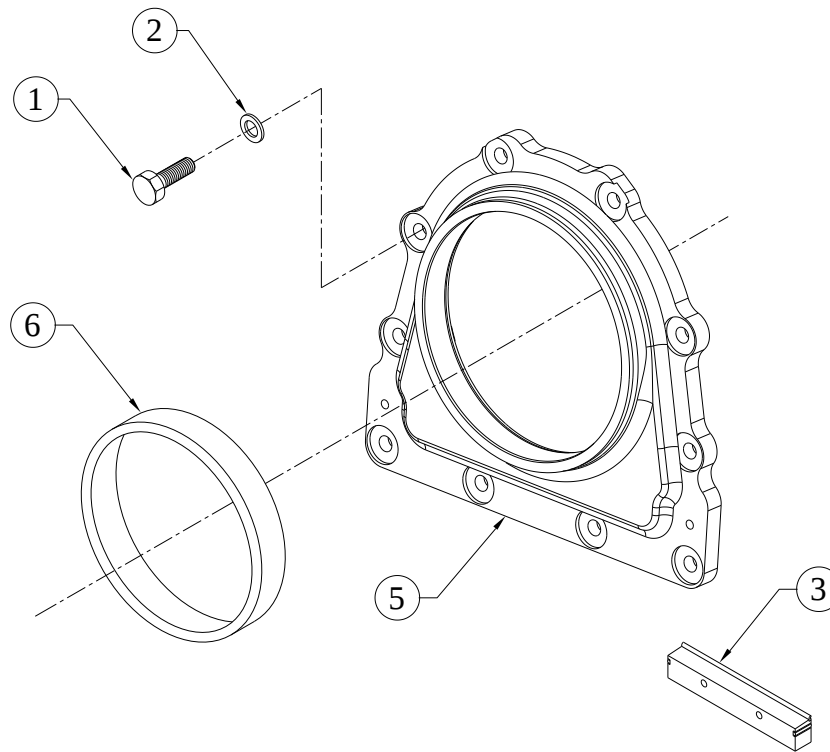


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331372	HYDRAULIC PUMP GEAR	1	
2	4812331261	LOCK NUT	1	
3	4812331260	JOINT	1	
4	4812331214	HARD WASHER	1	



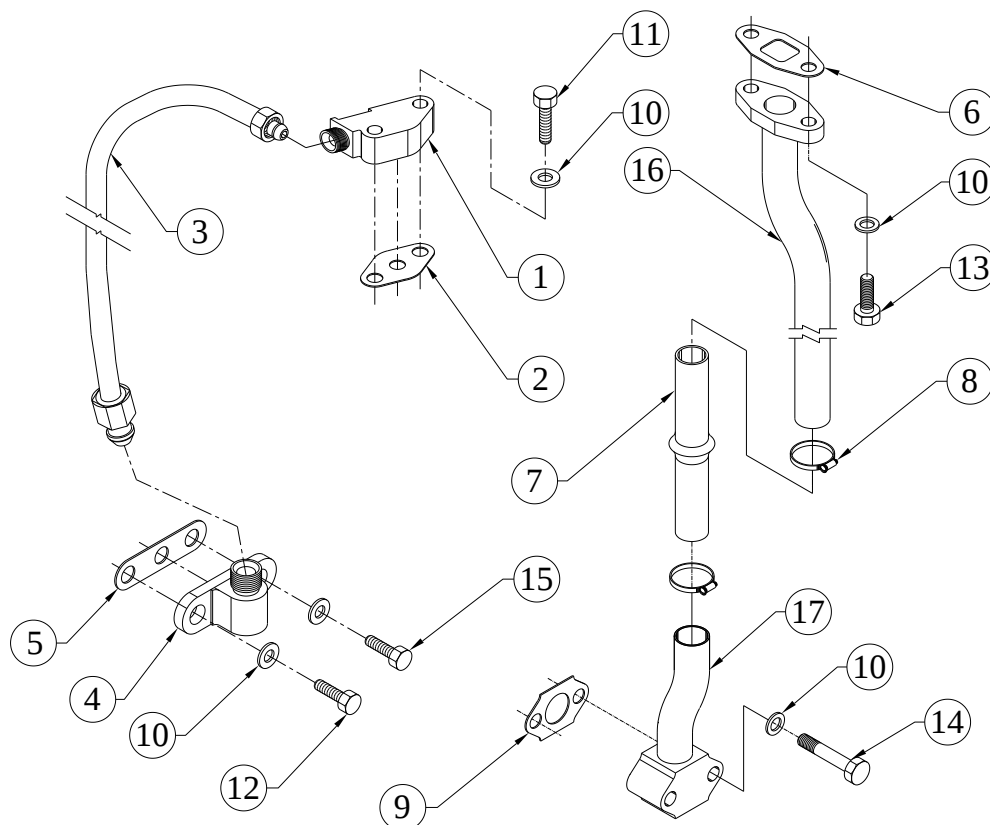
[illegible]

TITLE: - OIL SEAL HOUSING (FLYWHEEL END)



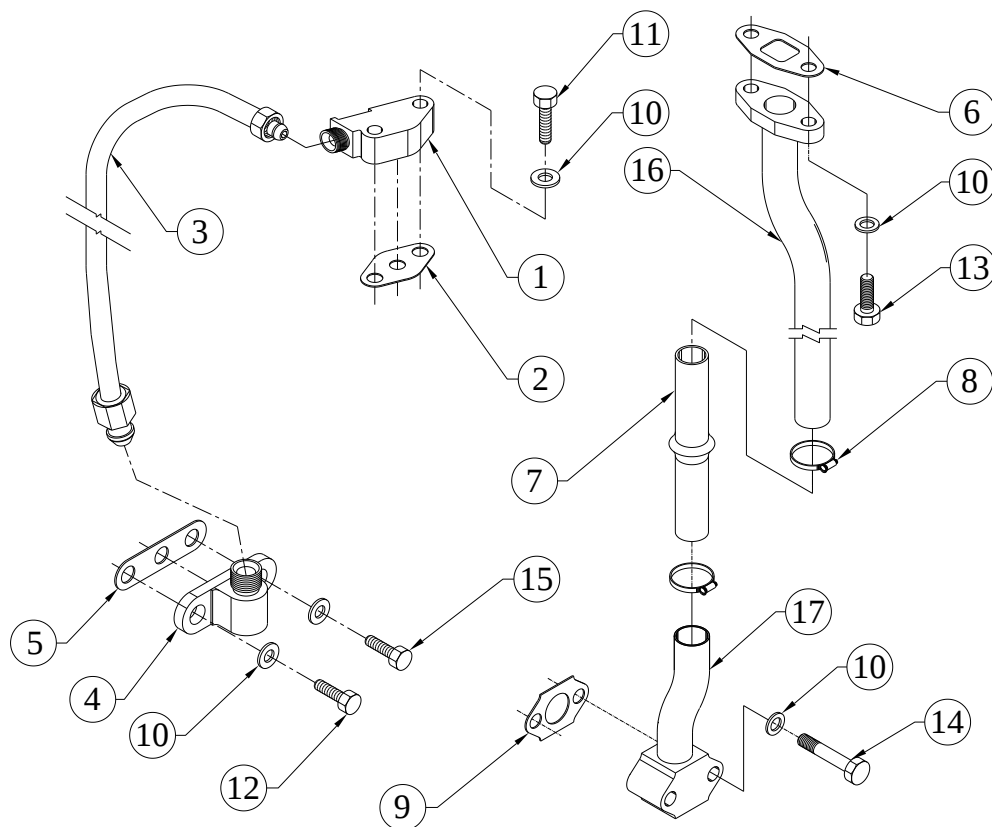
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331528	SET SCREW - M8X1.25X20 - 8.8	10	
2	4812331570	PLAIN MACHINED WASHER - M8	10	
3	4812331295	PLATE(WITH RUBBER MOULDING)	1	
*4	4812331320	SUB ASSEMBLY OF OIL SEAL HOUSING	1	CONSISTING OF SR. NO. 5,6
5	4812331294	OIL SEAL HSG.	1	
6	4812331241	OIL SEAL	1	



**TITLE: - PIPING FOR TURBO LUBRICATION
FOR HHI**


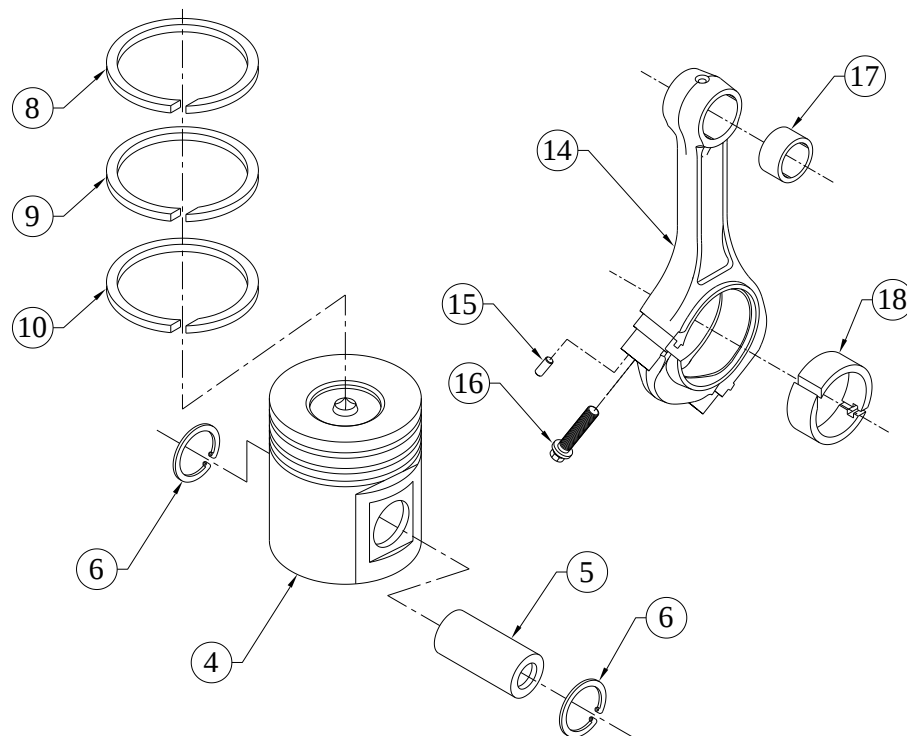
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331488	ADAPTOR FOR OIL SUPPLY	1	
2	4812331397	JOINT FOR ADAPTOR (TURBO SIDE)	1	
3	4812331496	ASSLY OF LUB OIL INLET PIPE FOR K24 TC	1	
4	4812331396	ADAPTOR (CRANKCASE SIDE)	1	
5	4812331398	JOINT FOR ADAPTOR (CRANKCASE SIDE)	1	
6	4812331399	JOINT FOR LUB OIL DRAIN PIPE	1	
7	4812331476	HOSE (FOR TURBO DRAIN PIPE 170 MM)	1	
8	4812331588	WORM DRIVE HOSE CLIP (35 MM)	2	
9	4812331400	JOINT FOR ADAPTOR CRANKCASE SIDE	1	
10	4812331570	PLAIN MACHINED WASHER - M8	8	
11	4812331530	SET SCREW - M8X1.25X25 - 8.8	2	
12	4812331446	HEAD MACHINED FOR BOLT	1	
13	4812331532	SET SCREW - M8X1.25X35 - 8.8	2	

**TITLE: - PIPING FOR TURBO LUBRICATION
FOR HHI**

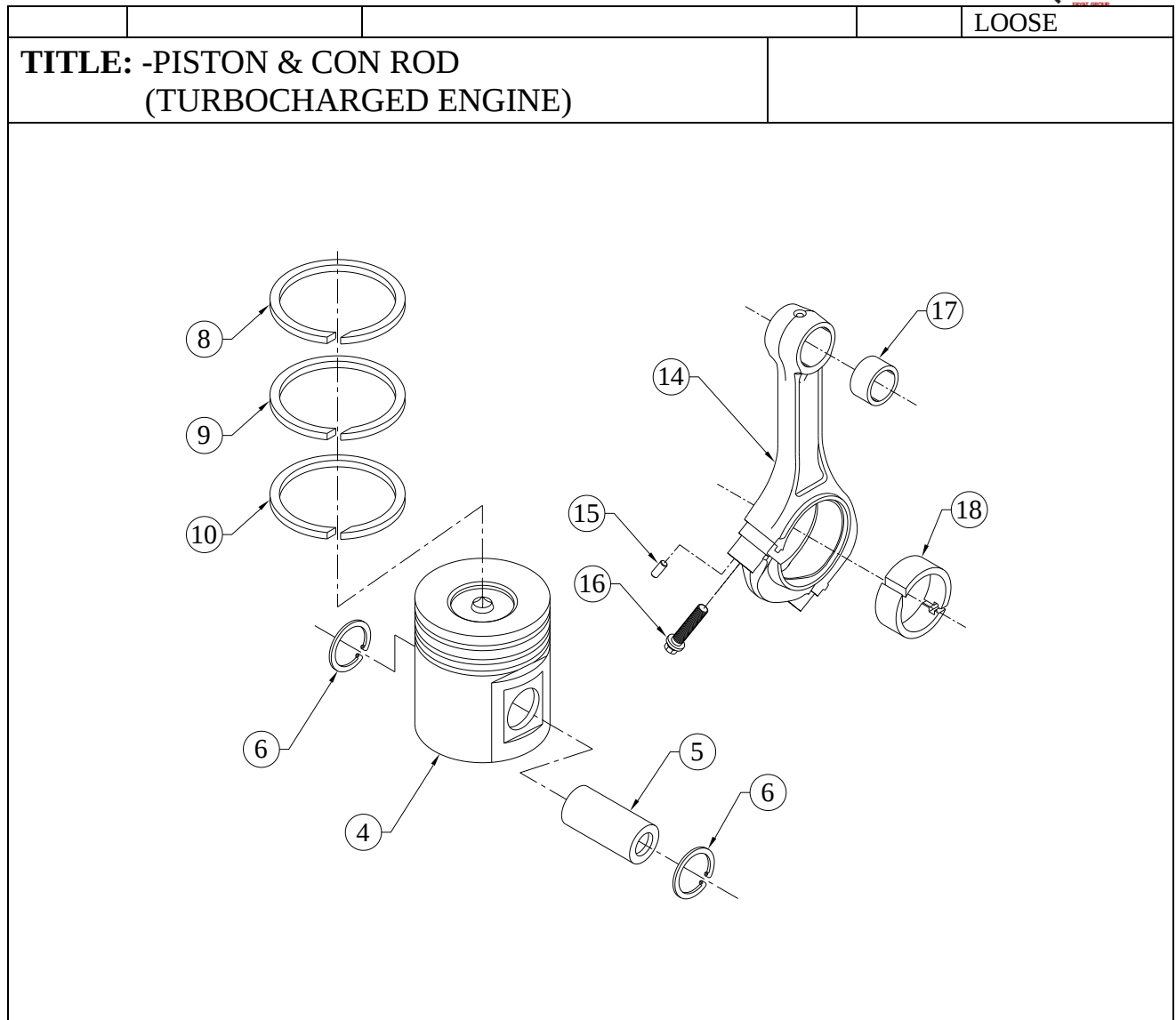


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
14	4812331509	SET BOLT - M8X1.25X45 - 8.8	2	
15	4812331528	SET SCREW - M8X1.25X20 - 8.8	1	
16	4812331445	L.O. DRAIN PIPE ASSLY.	1	
17	4812331444	ADAPTOR ASSLY FOR TURBO DRAIN	1	



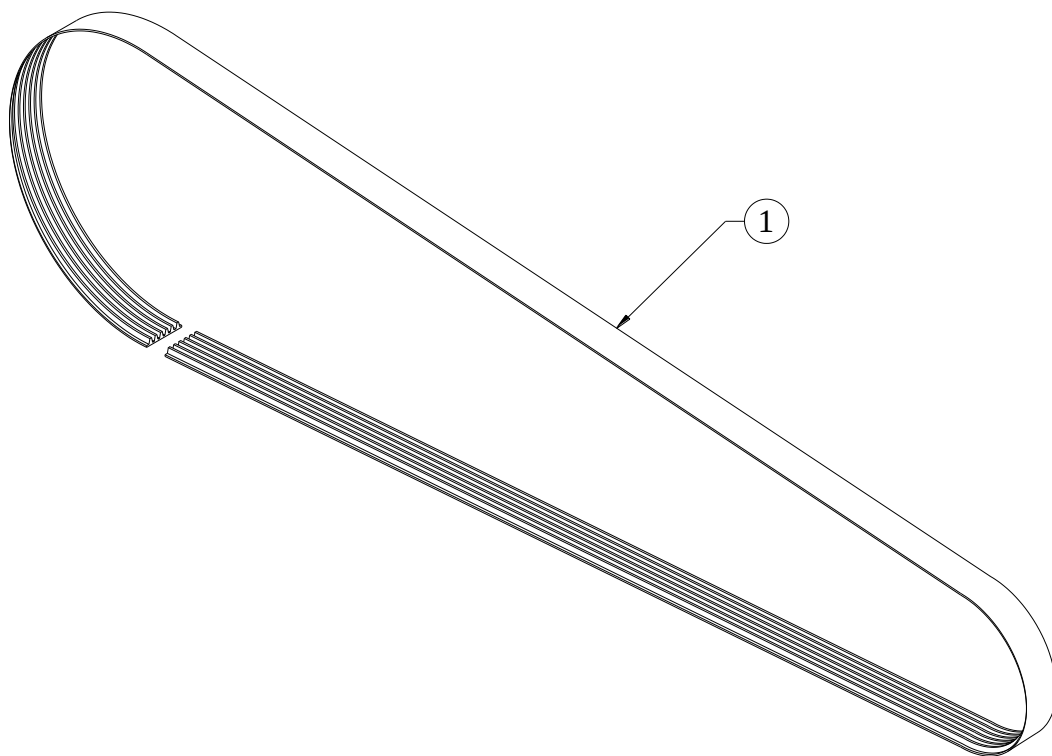
**TITLE: -PISTON & CON ROD
(TURBOCHARGED ENGINE)**


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	-	PISTON AND CONROD ASSLY (TURBOCHARGED ENGINE)	1	CONSISTING OF SR. NO.- 2 & 11 NOT SUPPLIED ASSEMBLY
*2	4812331425	PISTON ASSEMBLY COMPLETE	1	CONSISTING OF SR. NO.- 3, 7
*3	4812331426	PISTON WITH PIN	1	CONSISTING OF SR. NO.- 4 TO 6
4	-	PISTON (TURBOCHARGED ENGINE)	1	NOT SUPPLIED LOOSE
5	4812331333	PISTON PIN	1	
6	4812331564	CIRCLIP (INTERNAL)-35 MM	2	
*7	4812331303	PISTON RING SET (105 DIA.)	1	CONSISTING OF SR. NO.- 8 TO 10
8	-	TOP RING (105 DIA)	1	NOT SUPPLIED



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
9	-	COMPRESSION RING (105 DIA)	1	NOT SUPPLIED LOOSE
10	-	OIL CONTROL RING (105 DIA)	1	NOT SUPPLIED LOOSE
*11	4812331264	CONNECTING ROD	1	CONSISTING OF SR. NO.-12
*12	4812331267	CONNECTING ROD ASSEMBLY	1	CONSISTING OF SR. NO.- 13 & 18
*13	4812331268	CON ROD ASSEMBLY (WITHOUT LE BEARING)	1	CONSISTING OF SR. NO.- 14 TO 17
14	-	CONNECTING ROD MACHINING	1	NOT SUPPLIED LOOSE
15	4812331561	DOWEL PIN	2	
16	4812331269	CONNECTING ROD BOLT	2	
17	4812331215	SMALL END BUSH (S/F)	1	
18	-	CONNECTING ROD BIG END BEARING(NA)	2	NOT SUPPLIED LOOSE

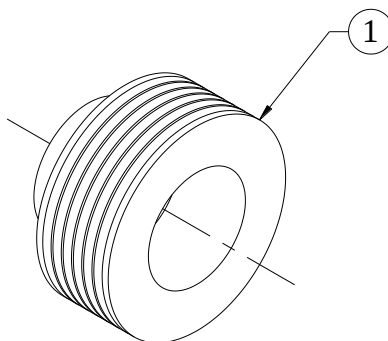
TITLE: - POLY V BELT



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331448	POLY V BELT	1	



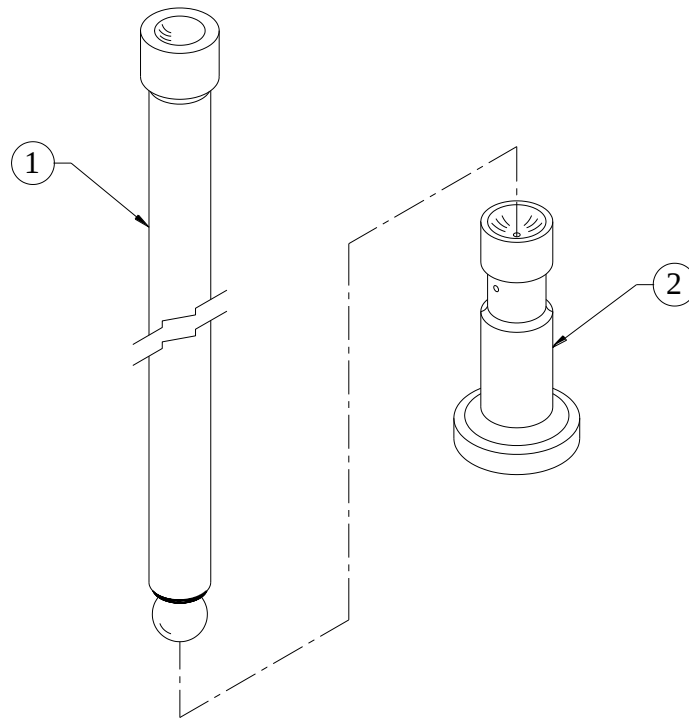
**TITLE: - PULLEY FOR ALTERNATOR WITH
POLY V GROOVE**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331450	PULLEY FOR ALTERNATOR WITH POLY V GROOVE	1	

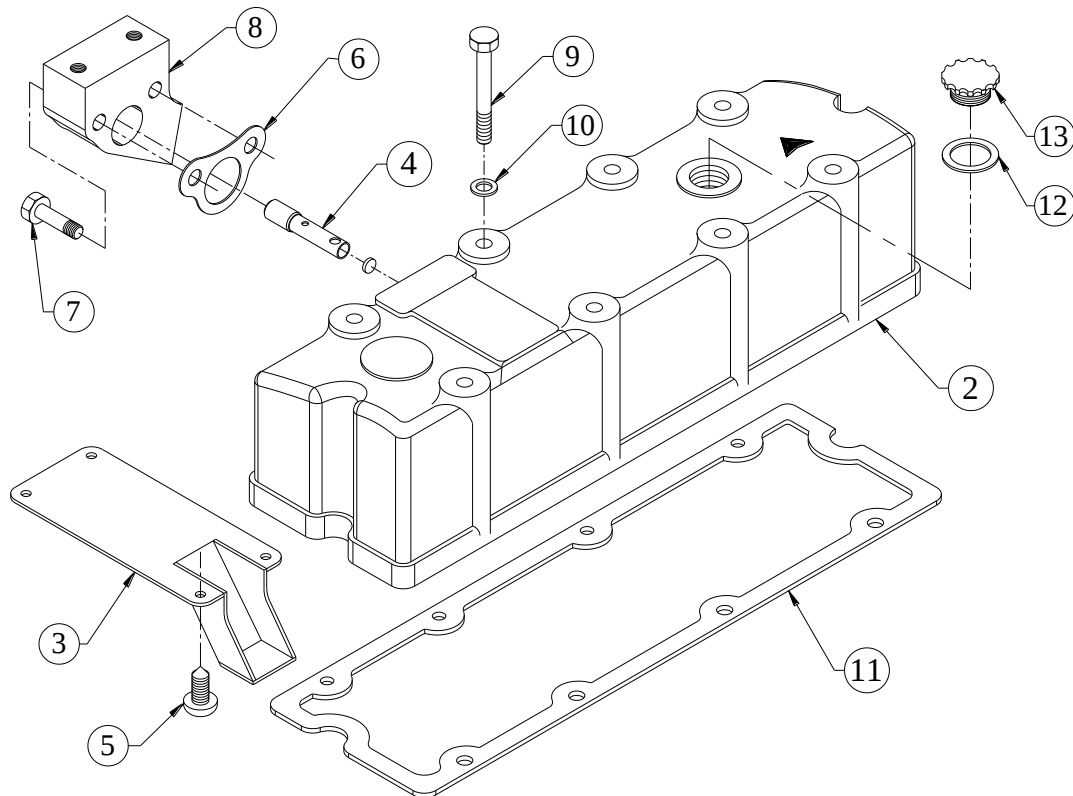


TITLE:- PUSHROD & TAPPETS

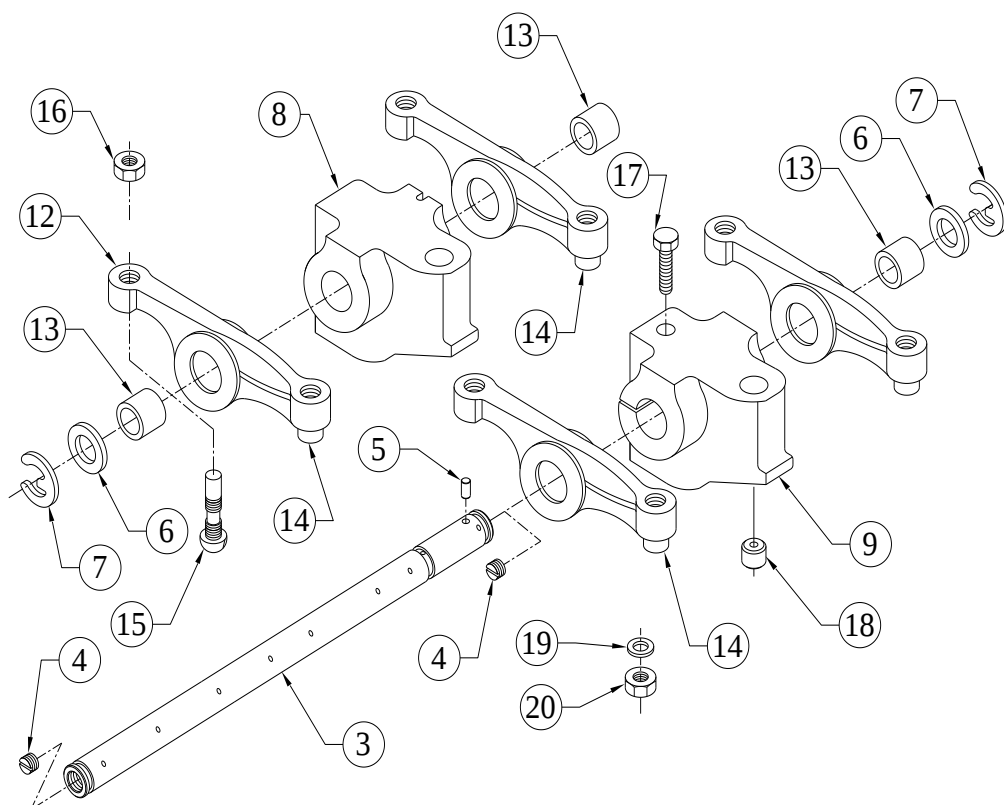


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331227	PUSH ROD (WELDED)	2	
2	4812331221	VALVE TAPPET	2	



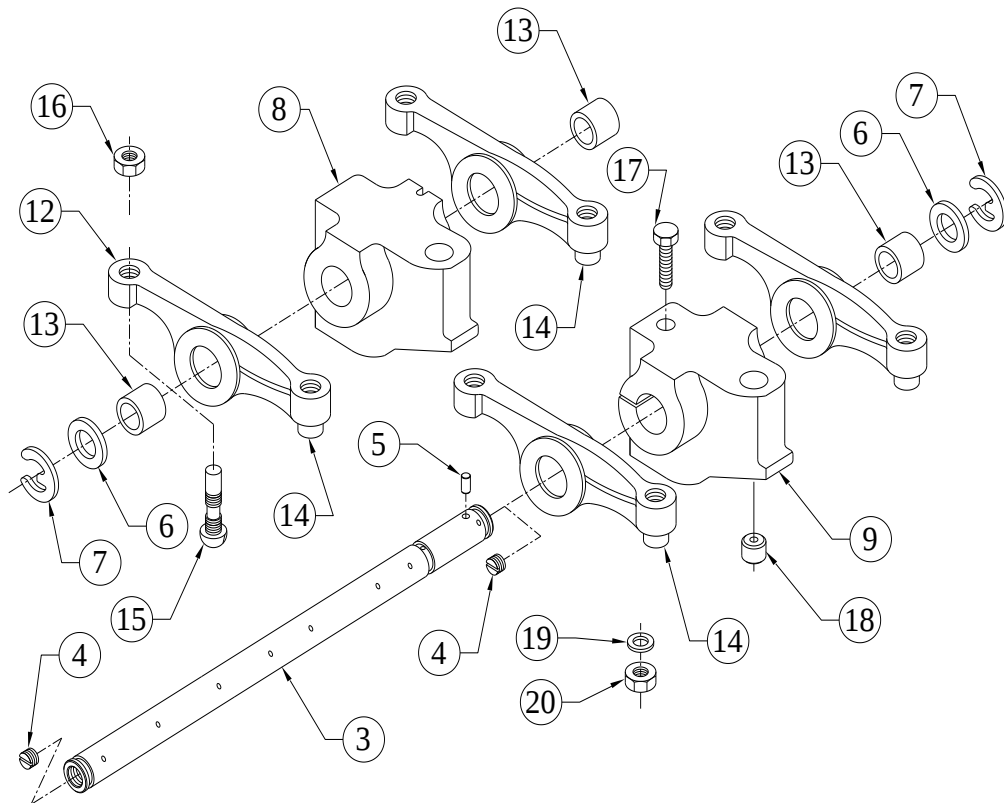
TITLE: - ROCKER COVER 4R1040T, FWE OIL FILLING, PEAREY LALL


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331402	ROCKER COVER ASSLY FOR PEAREY-LALL	1	CONSISTING OF SR. NO. 2 TO 8
2	4812331401	ROCKER COVER FWE OIL FILLING, PEAREY LALL	1	
3	4812331439	DEFLECTOR PLATE	1	
4	4812331440	BREATHER PIPE	1	
5	4812331290	P K DRIVE SCREW 1/8"X3/8" (RIVET)	4	
6	4812332326	JOINT FOR ADAPTOR	1	
7	4812331509	SET BOLT - M8X1.25X45 - 8.8	2	
8	4812331465	ADAPTOR (FOR BREATHER PIPE)	1	
9	4812331518	SET BOLT - M8X1.25X100 - 8.8	8	
10	4812331570	PLAIN MACHINED WASHER - M8	8	
11	4812332325	JOINT. (FOR ROCKER COVER)	1	
12	4812331616	SEALING WASHER (FOR OIL FILLING CAP)	1	
13	4812331623	OIL FILLER CAP	1	

**TITLE: - ROCKER SUPPORT ASSLY
(LOW FREQ. TAPPET ADJ)**


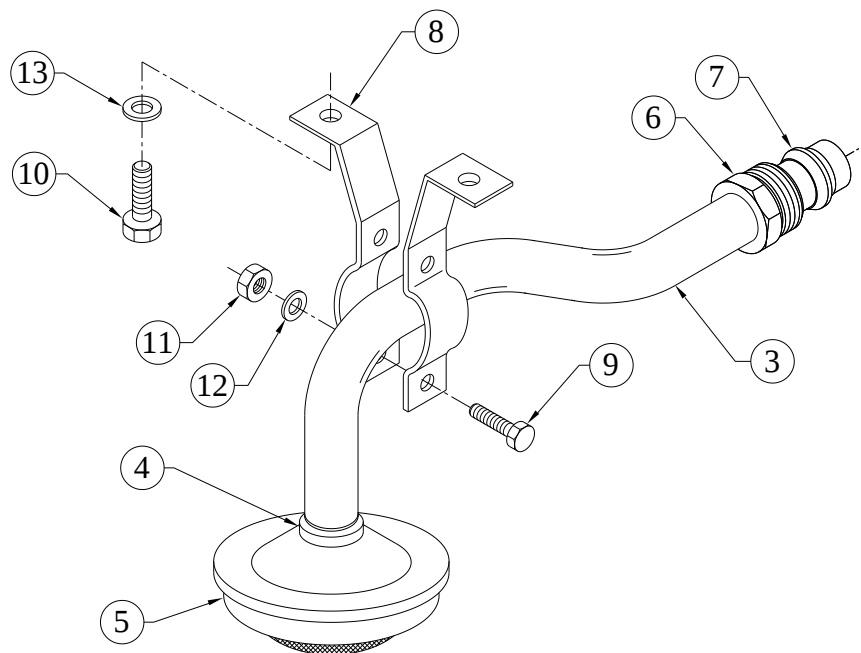
SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331421	ROCKER SUPPORT ASSEMBLY COMPLETE (E TYPE CIRCLIP)	1	CONSISTING OF SR. NO. 2, 6 TO 10 & 17
*2	4812331420	ROCKER SHAFT SUB ASSLY (S/F 'E' TYPE CIRCLIP)	1	CONSISTING OF SR. NO. 3 TO 5
3	4812331417	ROCKER SHAFT (S/F 'E' TYPE CIRCLIP)	1	
4	4812331554	SOCKET HEAD GRUB SCREW - M12X10	2	
5	4812331368	GROOVED SOCKET PIN	1	
6	4812331311	WASHER(FOR ROCKER ARM)	8	
7	4812331587	E TYPE CIRCLIP-EXTERNAL	8	
8	4812331415	ROCKER SUPPORT	1	
9	4812331416	ROCKER SUPPORT	3	
*10	-	ROCKER LEVER SUB ASSLY	8	CONSISTING OF SR. NO. 11 & 14 TO 16 NOT SUPPLIED LOOSE

**TITLE: - ROCKER SUPPORT ASSLY
(LOW FREQ. TAPPET ADJ)**

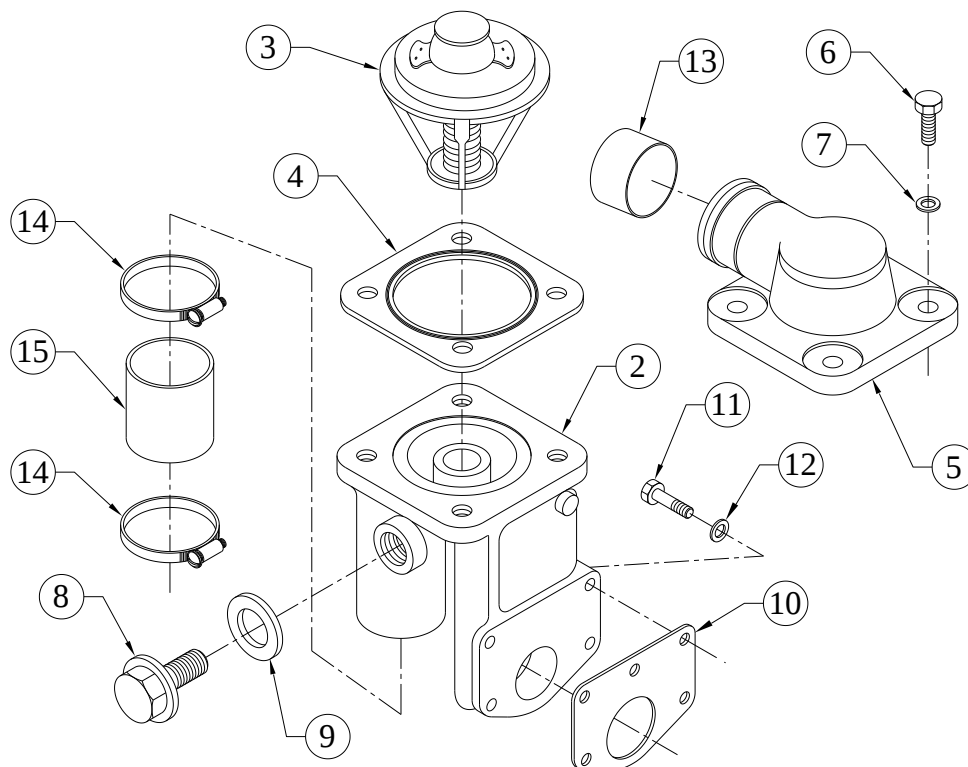


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*11	4812331418	ROCKER LEVER ASSEMBLY	1	CONSISTING OF SR. NO. 12, 13
12	-	ROCKER ARM (FINISH)	1	NOT SUPPLIED LOOSE
13	-	V.R. BUSH (SEMI FINISH)	1	NOT SUPPLIED LOOSE
14	-	V.R.TOE	1	NOT SUPPLIED LOOSE
15	4812331224	ROCKER-ARM ADJ. SCREW	1	
16	4812331226	NUT FOR ROCKER ADJ.SCREW	1	
17	4812331531	SET SCREW - M8X1.25X30 - 8.8	3	
18	4812331312	OIL METERING ORIFICE	1	
19	4812331216	WASHER	4	



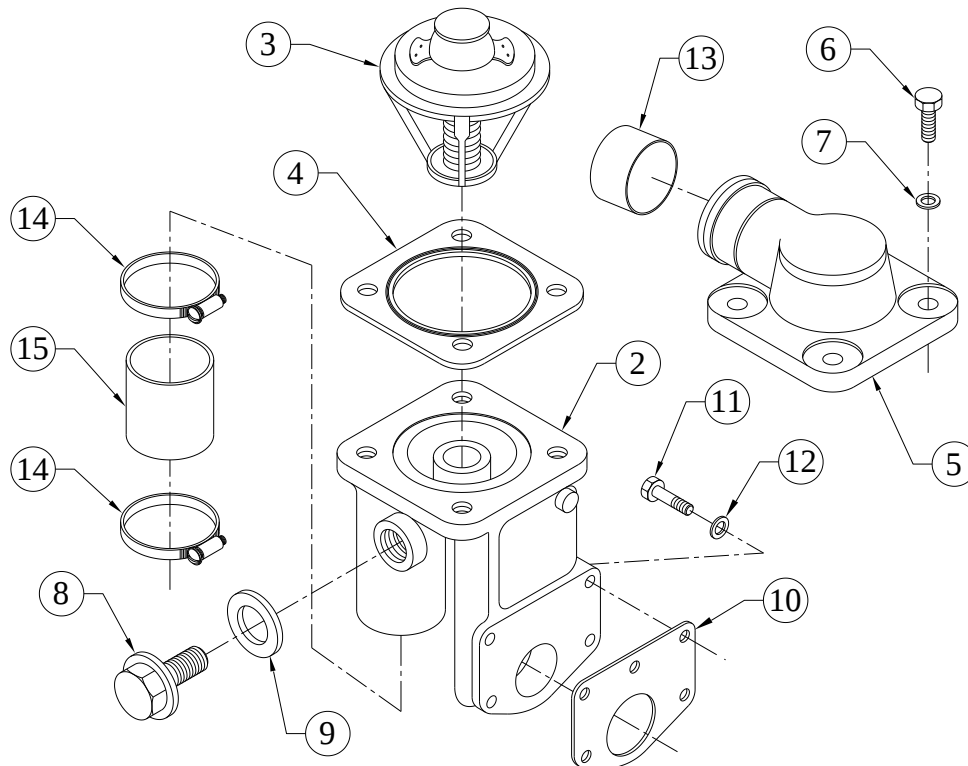
TITLE: - SUCTION TUBE


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331502	ASSEMBLY OF SUCTION TUBE	1	CONSISTING OF SR. NO. 2, 6 TO 13
*2	4812331501	SUB ASSEMBLY OF SUCTION TUBE	1	CONSISTING OF SR. NO. 3 TO 5
3	4812331500	PIPE FOR SUCTION TUBE	1	
4	4812331273	FUNNEL	1	
5	4812331259	STRAINER BASKET	1	
6	4812331270	UNION SCREW	1	
7	4812331271	DOUBLE CONE RING	1	
8	4812331272	CLAMPING STRAP	2	
9	4812331524	SET SCREW - M6X1X12 - 8.8	2	
10	4812331526	SET SCREW - M8X1.25X16 - 8.8	2	
11	4812331538	NUT - M6X1 - GR.8	2	
12	4812331568	PLAIN MACHINED WASHER - M6	2	
13	4812331570	PLAIN MACHINED WASHER - M8	2	

**TITLE: - THERMOSTAT HOUSING ASSEMBLY
BSIII**


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
*1	4812331394	THERMOSTAT HOSUING ASSEMBLY	1	CONSISTING OF SR. NO.- 2 TO 9
2	4812331379	THERMOSTAT HOUSING M14 TAP BOTH SIDES	1	
3	4812331335	THERMOSTAT ELEMENT	1	
4	4812331380	JOINT FOR THERMOSTAT COVER (METTALIC)	1	
5	4812331393	THERM.COVER	1	
6	4812331530	SET SCREW - M8X1.25X25 - 8.8	4	
7	4812331570	PLAIN MACHINED WASHER - M8	4	
8	4812331597	PLUG (M14X1.5)	1	
9	4812331580	COPPER WASHER (14X20)	1	
10	4812331381	JOINT FOR THERMOSTAT HOUSING	1	
11	4812331507	SET BOLT - M8X1.25X40 - 8.8	4	
12	4812331570	PLAIN MACHINED WASHER - M8	4	

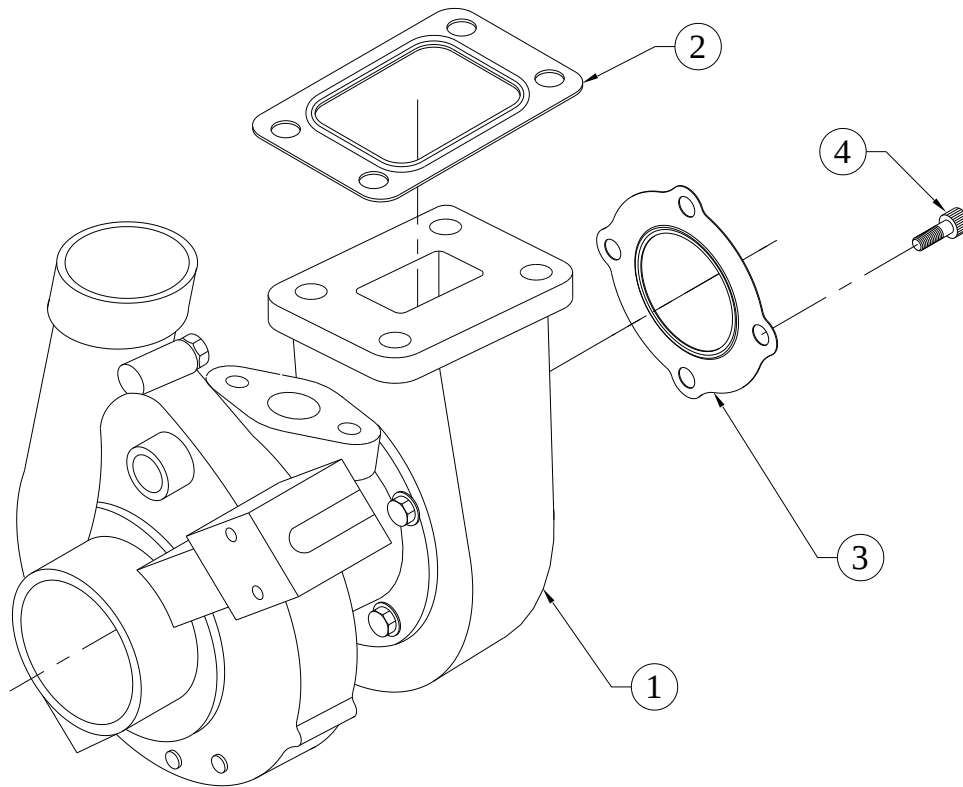
**TITLE: - THERMOSTAT HOUSING ASSEMBLY
BSIII**



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
13	4812331404	PLASTIC CAP FOR WATER PUMP INLET	1	
14	4812331321	WORM DRIVE CLAMP	2	
15	4812331374	THERMOSTAT BYPASS HOSE	1	



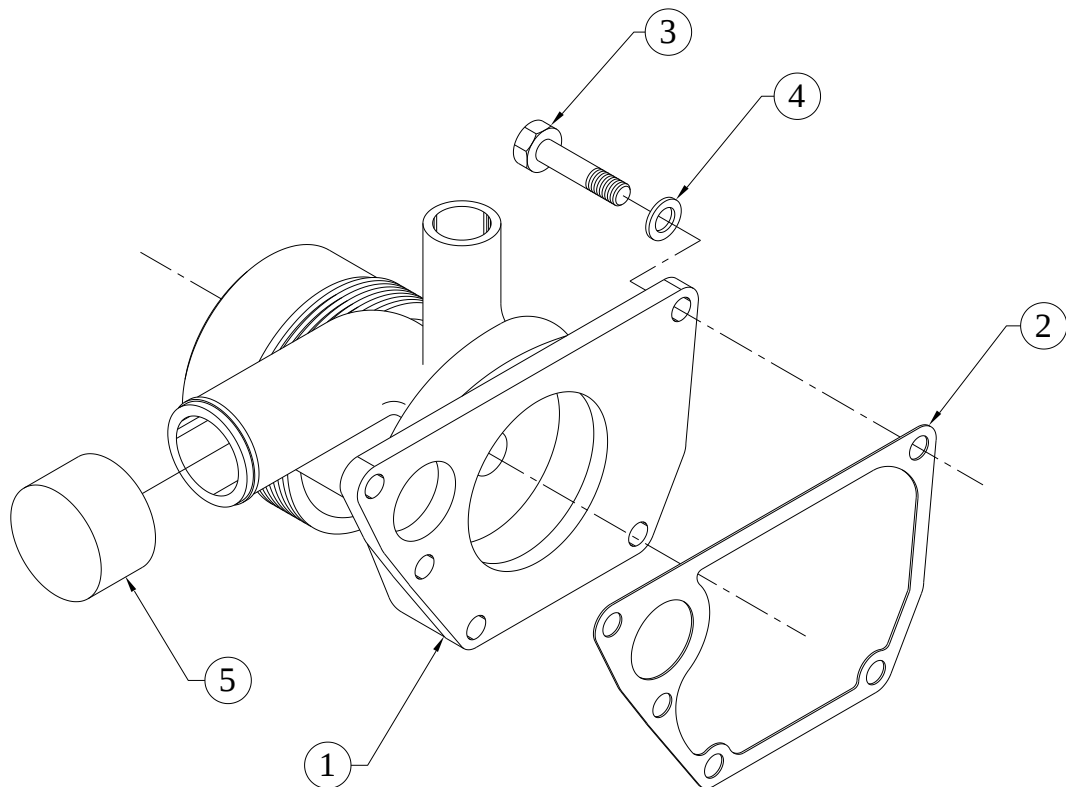
TITLE: - TURBOCHARGER AND MNTG.



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331403	TURBOCHARGER	1	
2	4812331605	JOINT SS (FOR TURBOCHARGER)	1	
3	4812331395	JOINT S S FOR ADAPTOR RING	1	
4	4812331549	SOCKET HEAD SCREW - M8X1.25X16 - 8.8	4	



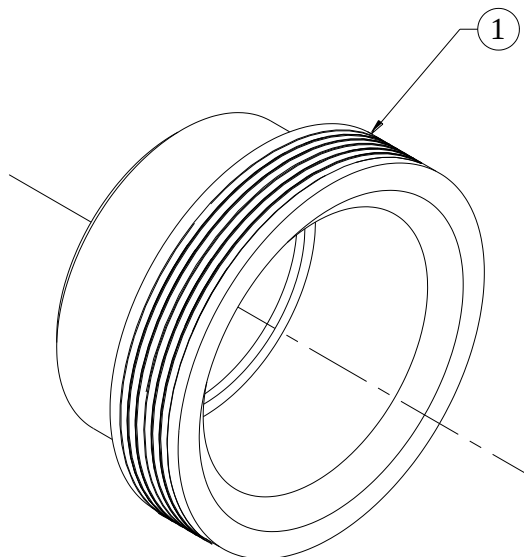
TITLE: - WATER PUMP WITHOUT PULLEY



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331392	WATER PUMP ASSLY W/O PULLEY	1	
2	4812331378	JOINT FOR DELIVERY VOLUTE	1	
3	4812331522	SET BOLT - M10X1.5X60 - 8.8	5	
4	4812331572	PLAIN MACHINED WASHER - M10	5	
5	4812331404	PLASTIC CAP FOR WATER PUMP INLET	1	



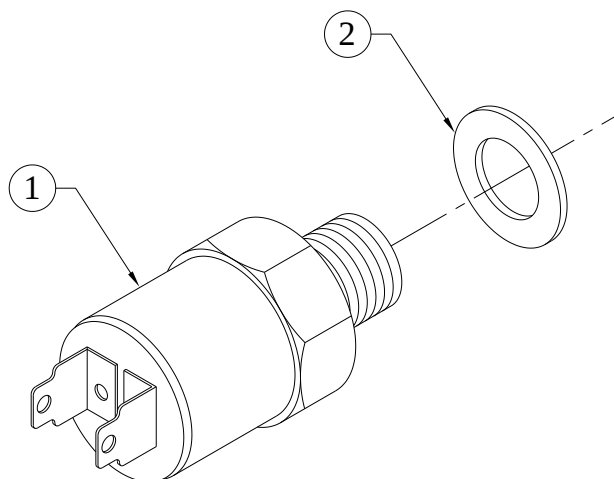
TITLE: - WATER PUMP PULLEY WITH POLY V GROOVE



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331449	WATER PUMP PULLEY WITH POLY V GROOVE	1	



TITLE: - WATER TEMP.SW

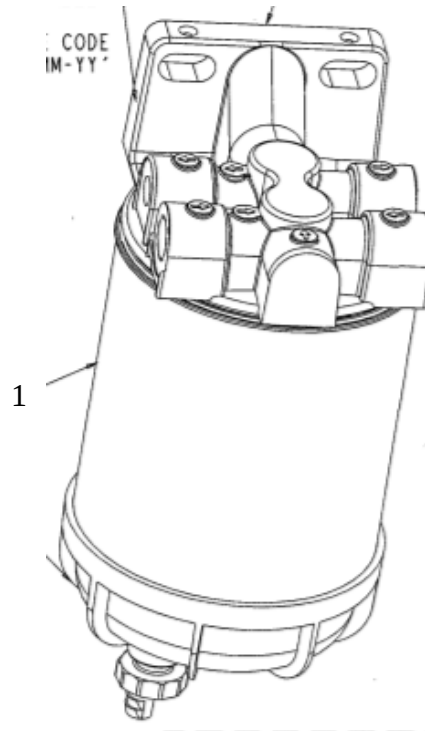


SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331498	COOLANT TEMP.SWITCH	1	
2	4812331579	COPPER WASHER	1	



TITLE: - TRANSPARENT BOWL WATER SEPARATOR CUM PRE-FILTER.

GROUP: - F6.004.58



SR.NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	4812331344	TRANSPARENT BOWL WATER SEPARATOR CUM PRE-FILTER.	1	
*1	4812332064	Water Separator	1	Not illustrated

