



PARTS LIST

SJ327 T ENGINE (CPCB - II) : M/s ADOR
LIST No: 1431



861/862, Anna Salai, Chennai 600002
Branches :- Bangalore, Ootacamund, Tiruchirapalli & Secunderabad



PARTS LIST

SJ 327 T ENGINE – (CPCB – II)

GENSET APPLICATION (M/S. ADOR)

38.5BHP @ 1800Rpm

List No. 1431

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SJ 327 T ENGINE

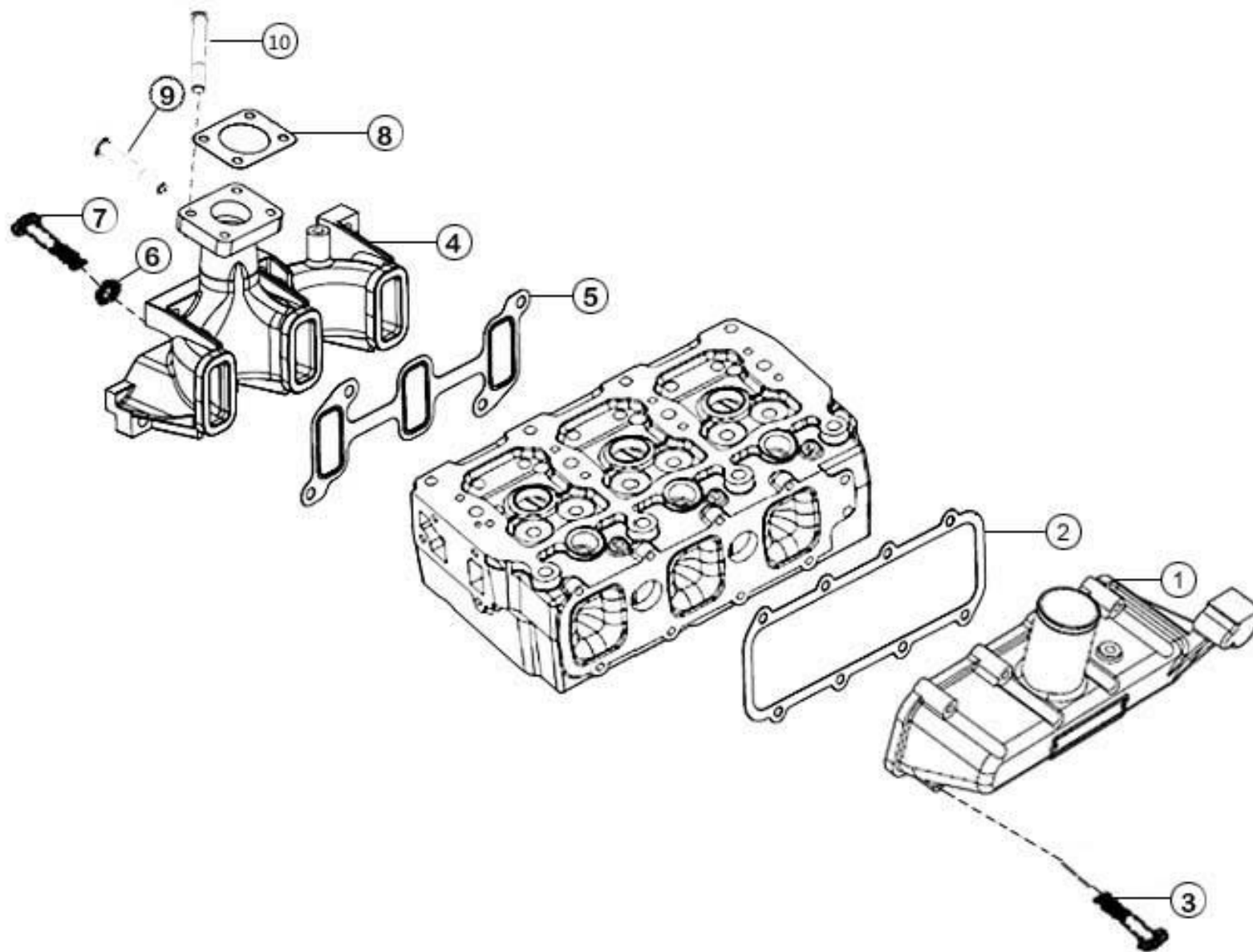
(38.5BHP @ 1800 RPM)

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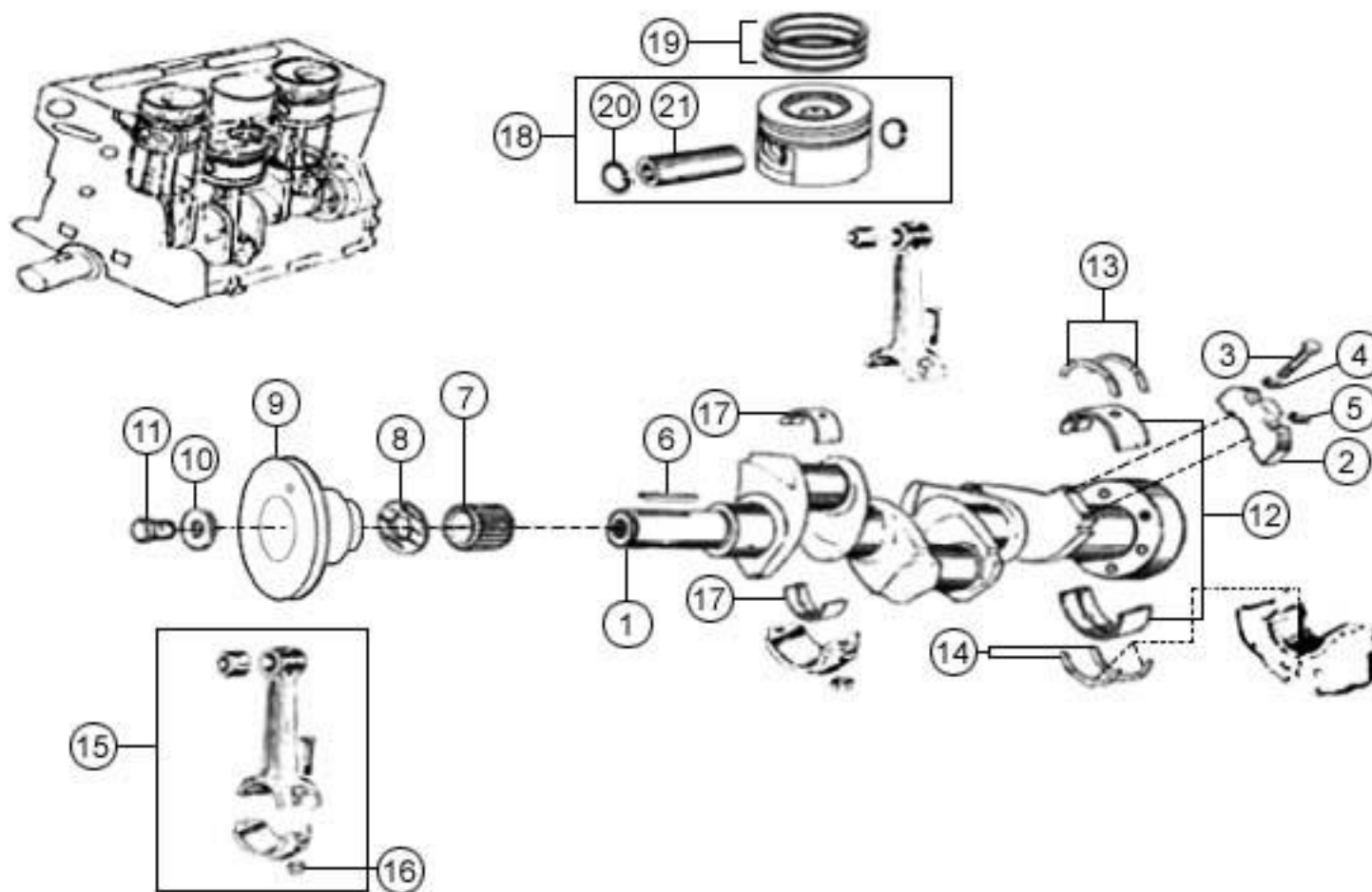
AIR INDUCTION AND EXHAUST SYSTEM



AIR INDUCTION AND EXHAUST SYSTEM

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
1	54SG3028	Inlet Manifold	1	
2	49SG3076	Joint Inlet Manifold to Cylinder Head	1	
3	74SG4069	Flanged Bolt	8	
4	54SG3025	Exhaust Manifold for SJ327 (TIER-3)	1	
5	49SG3005	Joint Exhaust Manifold to Cylinder Head	1	
6	92DE0873	Washer Exhaust Manifold to Cylinder Head	2	
7	S4007433	Setscrew Exhaust Manifold to Cylinder Head	2	
8	S4004964	Joint to Turbocharger	1	
9	74SG4018	Allen Screw	4	
10	S4008217	Stud	4	

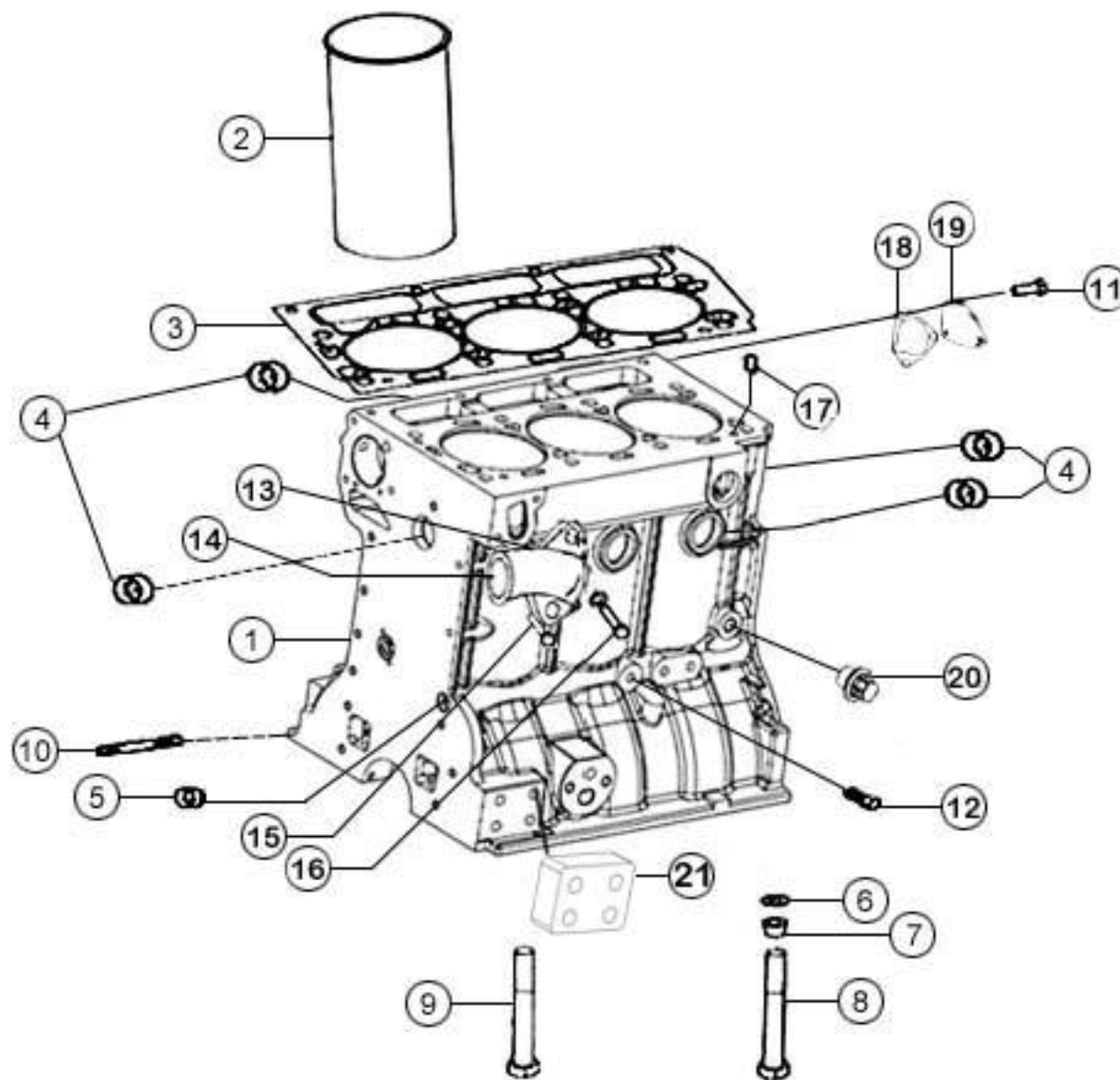
CRANK SHAFT



CRANK SHAFT

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
01	26SG3003	Crank Shaft	1	
02	31328241	Balance Weight Crank Shaft	2	
03	02185189	Setscrew Balance Weight	4	
04	31731515	Tab Washer Rh Balance Weight	2	
05	31731516	Tab Washer Lh Balance Weight	2	
06	36271704	Key	1	
07	00410132	Gear Crank Shaft	1	
08	33176137	Washer Crankshaft	1	
09	67S30099	Pulley Crank Shaft	1	
10	33125112	Washer Crankshaft Pulley	1	
11	S4007426	Setscrew, Crankshaft Pulley Retaining	1	
12	31121261	Main Bearing C/S Inter Top And Bottom	4	
12A	31122411	Bearing Crankshaft Main Front Bottom	1	
12B	31122421	Bearing Crankshaft Main Front Top & Bottom	1	
12C	31123331	Bearing Crankshaft Rear & Middle	1	
13	31137211	Washer Main Bearing Thrust Top	2	
14	31137221	Washer Main Bearing Thrust Bot	2	
15	SA063496	Conn Rod Assy (Includes Item 28,27,19,18,17)	3	
16	33221319	Nut	2	
17	31131171	Con Rod Big End Brg Std	6	
18	99SG4322	Piston Assy With G Pin,Crcp (Less Rings)	3	
19	99SG3003	Piston Rings Assly	3	
20	00170001	Circlip P-Series	6	
21	61SG4001	Pin Gudgeon	3	

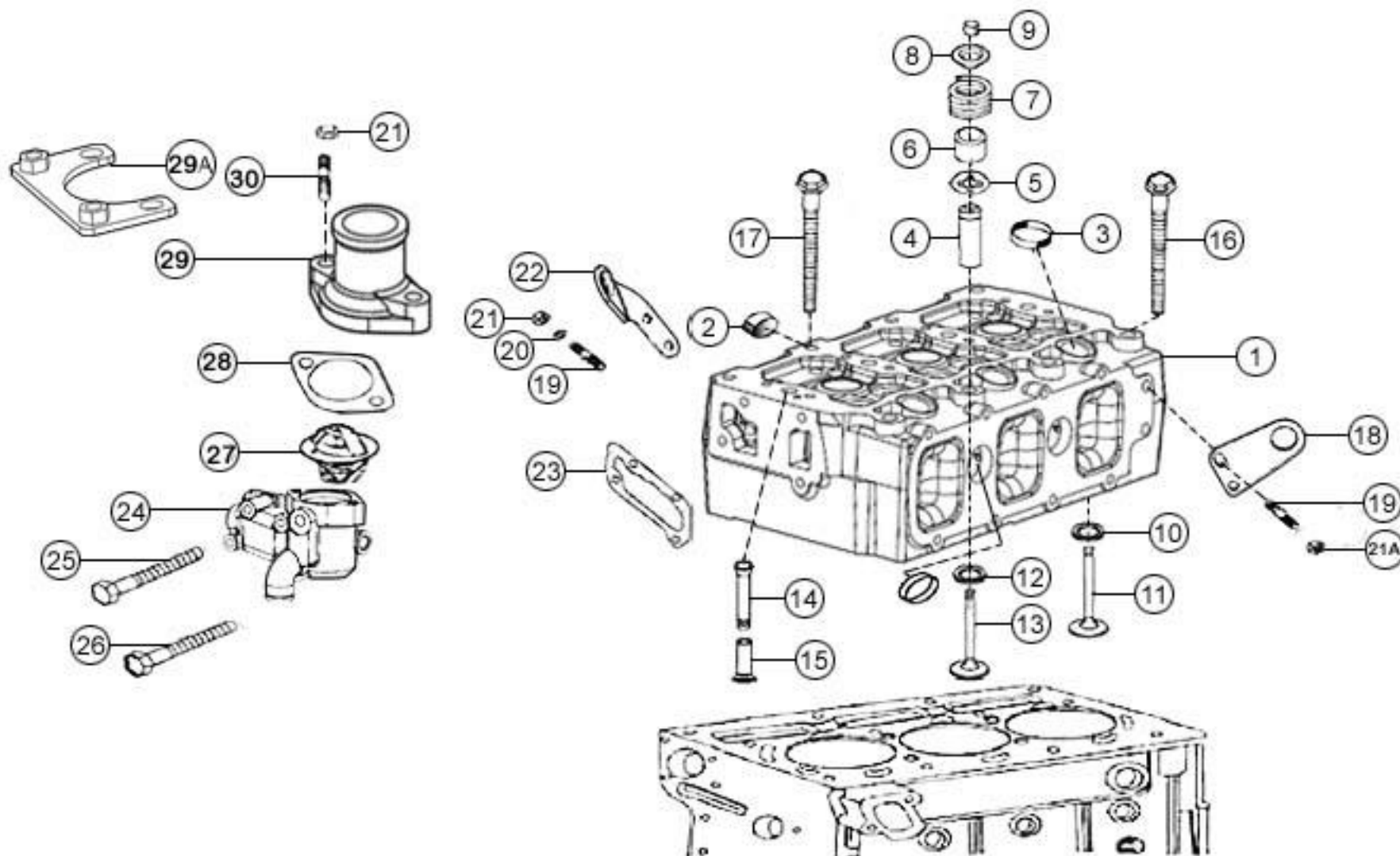
CYLINDER BLOCK



CYLINDER BLOCK

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
1	99SG3293	Cyl Block Assy (Consists of 1, 2, 4, 7, 8, 9, 17, 27, 27A, 28, 29, 30)	1	
2	53SG3007	Liner Cylinder Block	3	
3	49SG3001	Gasket Cylinder Head	1	
4	00650710	Plug	7	
5	65SG3001	Plug Cyl Bck Pressure Rail Frt And Rear	2	
6	02415608	O Ring Thimble To Block Seat 4th Brg Cap	2	
7	00870001	Thimble 4th Brg Cap	8	
8	S4007429	Setscrew Main Brg Cap - Cyl Bck Rear Cap	2	
9	S4007428	Setscrew Bearing Cap To Cylinder Block	6	
10	82S30098	Stud Cylinder Block To Axle Bracket	1	
11	74SG3073	Bolt	3	
12	65DE0036	Plug	1	
13	49SG3074	Joint Water Inlet Body	1	
14	20SG3014	Connection Water Inlet	1	
15	74SG3074	Bolt Flanged	1	
16	74SG3076	Bolt Flanged	1	
17	2114A046	Dowel Cyl Block To Head	2	
18	49S30199	Joint Tachometer Drive Housing	1	
19	94S30406	Plate Tachometer Drive Blanking	1	
20	32161114	Water Drain Plug – Block	1	
21	33DE0078	Spacer Engine Front Bracket	2	

CYLINDER HEAD

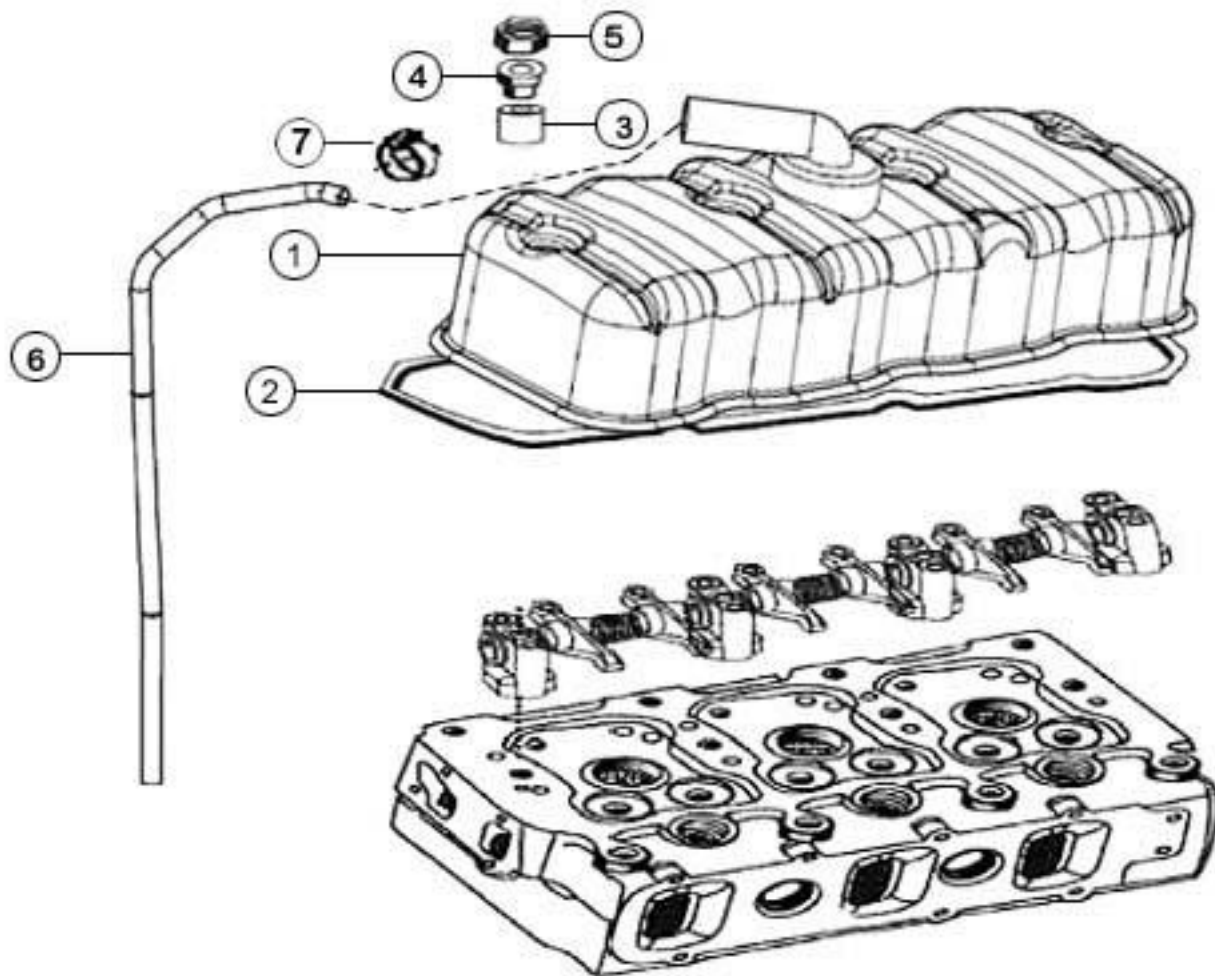


CYLINDER HEAD

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
01	99SG3446	Cylinder Head Major Kit	1	
02	00650713	Plug Cylinder Head	2	
03	00650710	Plug Cylinder Head	7	
04	42SG3002	Guide Exhaust & Inlet Valve	6	
05	33177518	Spring Washer	6	
06	73SG3001	Seal Valve Stem	6	
07	78SG3001	Spring Exhaust & Inlet Valve Outer	6	
08	00150008	Cap Valve Spring	6	
09	00230001	Cotter Valve Spring (Serviced In Pairs)	12	
10	47SJ3001	Insert Inlet Valve Seat	3	
11	91SG3003	Valve Inlet	3	
12	47SJ3002	Insert Exhaust Valve Seat	3	
13	91SG3004	Valve Exhaust	3	
13A	DE006002	Engine Valve Set (Includes 11 & 13)	1	
14	70SG3001	Pushrod	6	
15	86SG3001	Tappet	6	
16	74SG3001	Bolt Cylinder Head Long	8	
17	74SG3002	Bolt Cylinder Head Short	4	
18	94SG3039	Plate Engine Lifting Rear	1	
19	S4008209	Stud Lifting Plate Front And Rear	4	
20	92DE0873	Washer Water Outlet Body To Cyl Head Screw	6	

21	S7DE0102	Nut-Flanged	2
21A	57DE0103	Flanged Nut	4
22	94SG3020	Plate Engine Lifting Front	1
23	49SG3075	Joint Cylinder Head Water Outlet body	1
24	08SG3011	Body Cyl Head Water Outlet	1
25	S4007433	Setscrew Body Cylinder Head Water Outlet	2
26	S4007404	Setscrew Body Cylinder Head Water Outlet	2
27	DE006051	Thermostat	1
28	49S30197	Joint Water Outlet Connection Top	1
29	00201142	Connection Cylinder Head Water Outlet Top	1
29A	10SG3047	Bracket	1
30	82SG4015	Stud Water Outlet Body	2

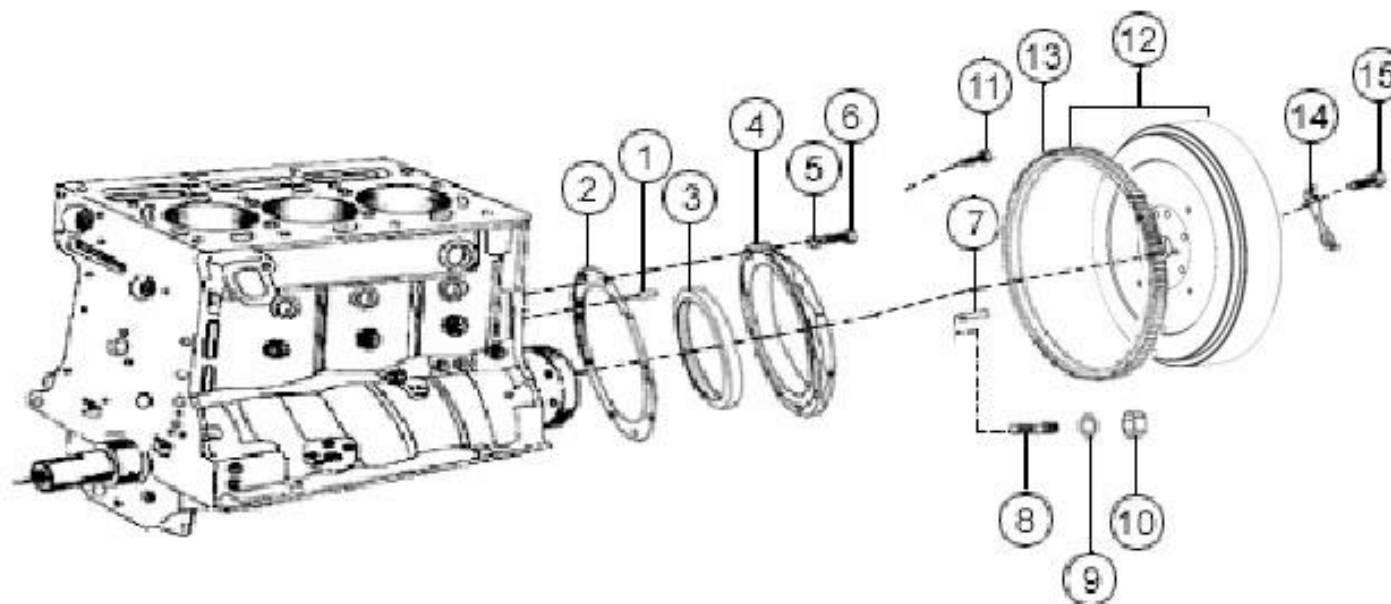
CYLINDER HEAD COVER



CYLINDER HEAD COVER

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
01	99SG3387	Assembly Cover Cylinder Head	1	
02	49SG3023	Joint Cylinder Head Cover	1	
03	77SG3004	Sleeve Cylinder Head Cover	4	
04	73SG4010	Rubber Seal Cylinder Head Cover Retaining	4	
05	2318A603	Nut	4	
06	20SG4058	Breather Hose	1	
07	S4001800	Hose CLIP	1	

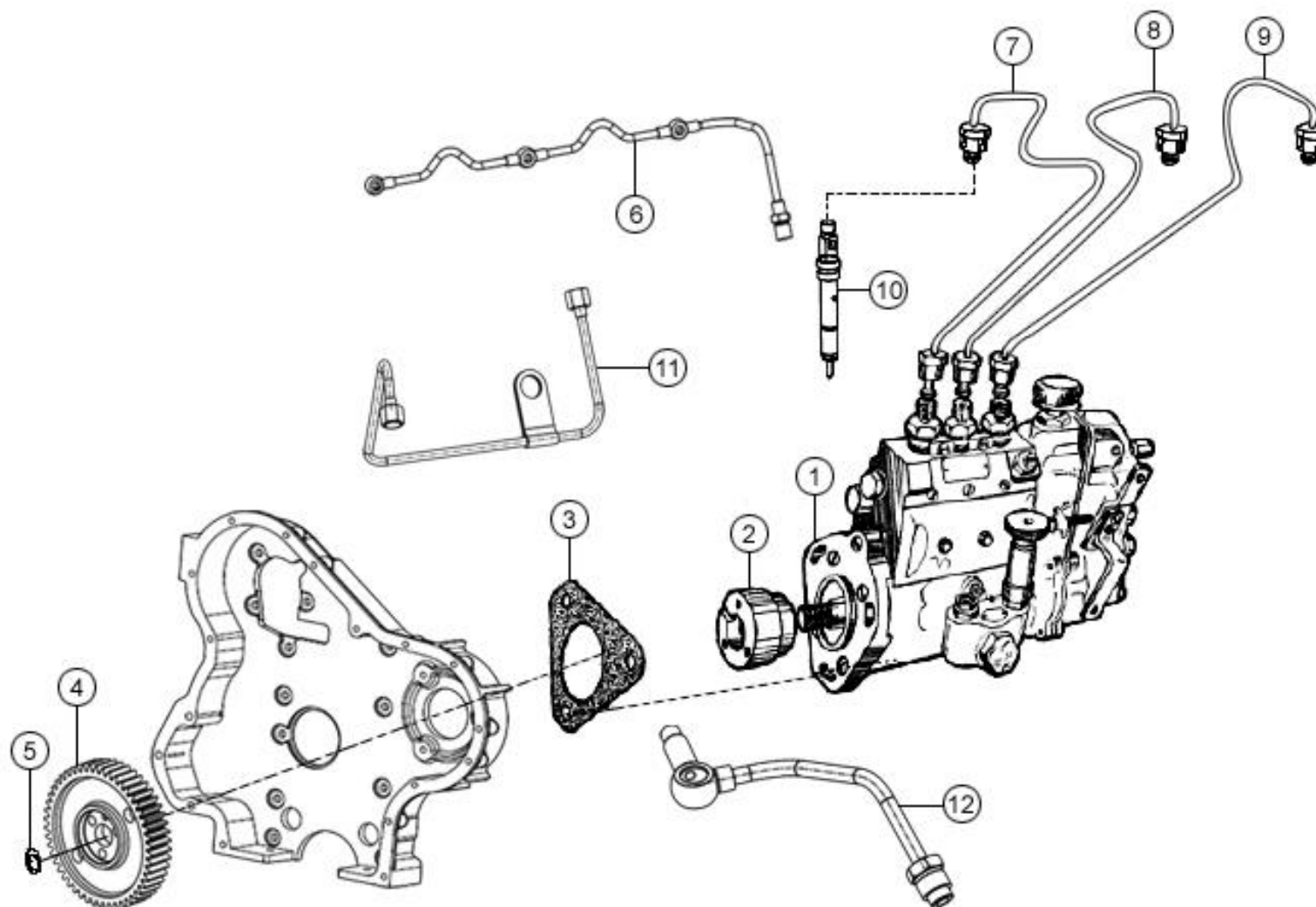
FLYWHEEL HOUSING REAR END OIL SEAL



FLYWHEEL HOUSING REAR END OIL SEAL

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
	SA009445	HOUSING (RAMKSHAFT KEAR END OIL SEAL (INLULDES-3 & 4)	1	
1	00350015	Dowel Flywheel	2	
2	49S30190	Joint Rear End Housing To Cyl.Block	1	
3	73DE0014	Unitised Lip Seal Crankshaft Rear End	1	
4	37424611	R.End Oil Seal Housing	1	
5	00920053	Spring Washer	9	
6	74DE0844	Set Screw Seal Housing to Cyl Block	9	
7	00350016	Dowel Cylinder Block To Adaptor Plate	2	
8	S4008210	Stud Adaptor Plate To Cylinder Block	6	
9	92DE0873	Washer Adaptor Plate Stud	6	
10	57DE0103	Nut	6	
11	72S30011	Cap Screw Adaptor Plate To Cyl Block	2	
12	99DE1186	Flywheel & Starter Ring Assembly(Item 14&15)	1	
13	00410264	Flywheel Ring Starter	1	
14	00921062	Washer Tab Flywheel Set Screw	3	
15	S4007444	Setscrew Flywheel To Crankshaft	6	

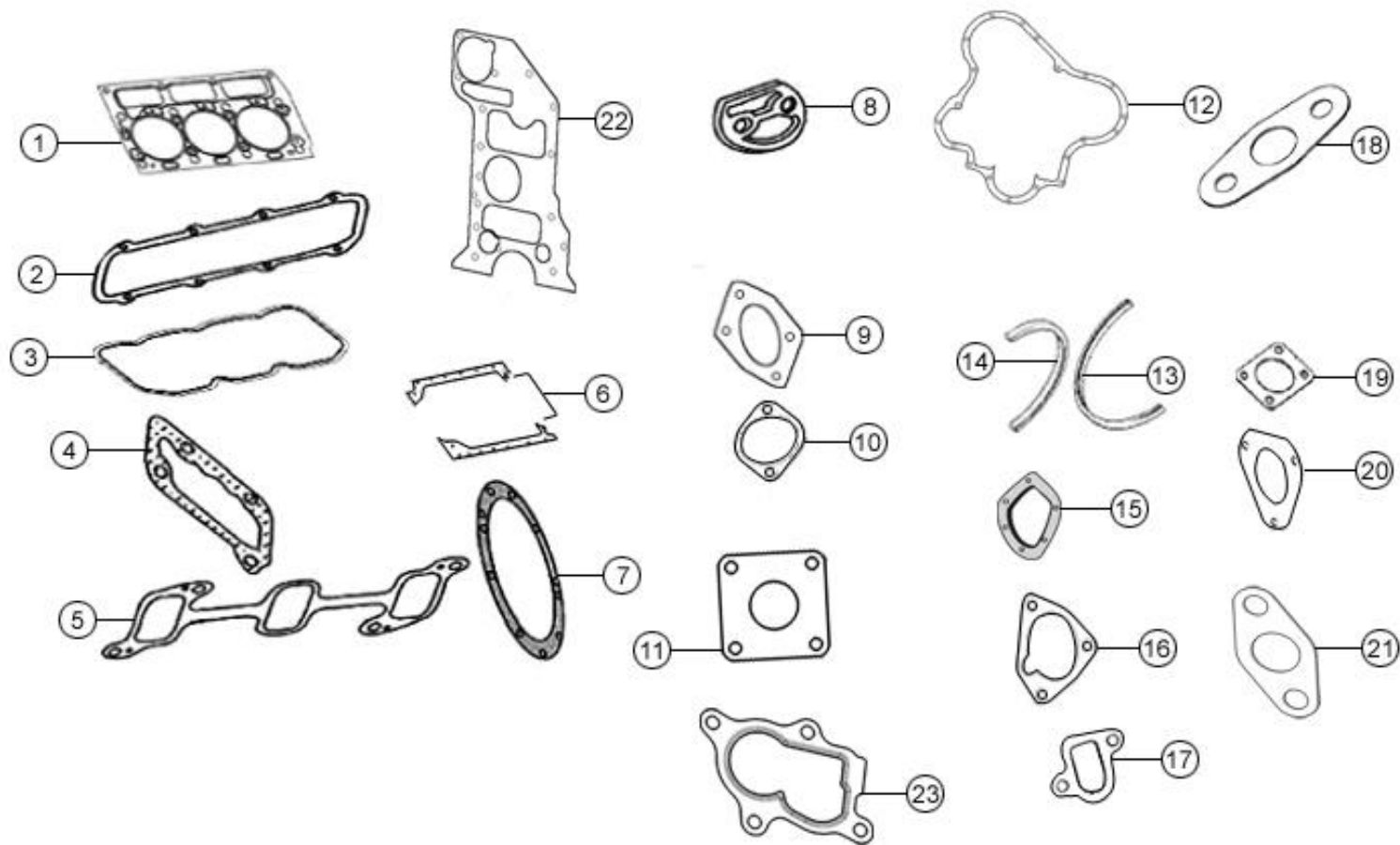
FUEL INJECTION PUMP



FUEL INJECTION PUMP

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
1	DE006412	FIP 38.5BHP@1800RPM	1	(Not Serviced)
2	S4003804	Adoption Fuel Injection Pump Gear	1	
3	S4004921	Joint Fuel Pump Distributor	1	
4	41SG3052	Gear Fuel Pump Drive (SJ327 With S3 Front End)	1	
5	00920053	Washer Spring Gear Fuel Pump Drive Retaining Setscrew	3	
6	99SG3421	Pipe Assy – Main Leak Off	1	
7	99SG3335	High Pressure Pipe NO.1 Cylinder	1	
8	99SG3336	High Pressure Pipe NO.2 Cylinder	1	
9	99SG3337	High Pressure Pipe NO.3 Cylinder	1	
10	DE006289	Nozzle & Holder Assy (Bosch No: F 002 C8Z 969)	3	
11	99SG3423	Pipe Assy-2 (Main Leak Off FIP To over Flow)	1	
12	99SG3427	Pipe Assy FIP To Tank	1	
13	99SG3459	Pipe High Pressure Assy Kit (99SG3335+99SG3336+99SG3337)	1	Not Illustrated

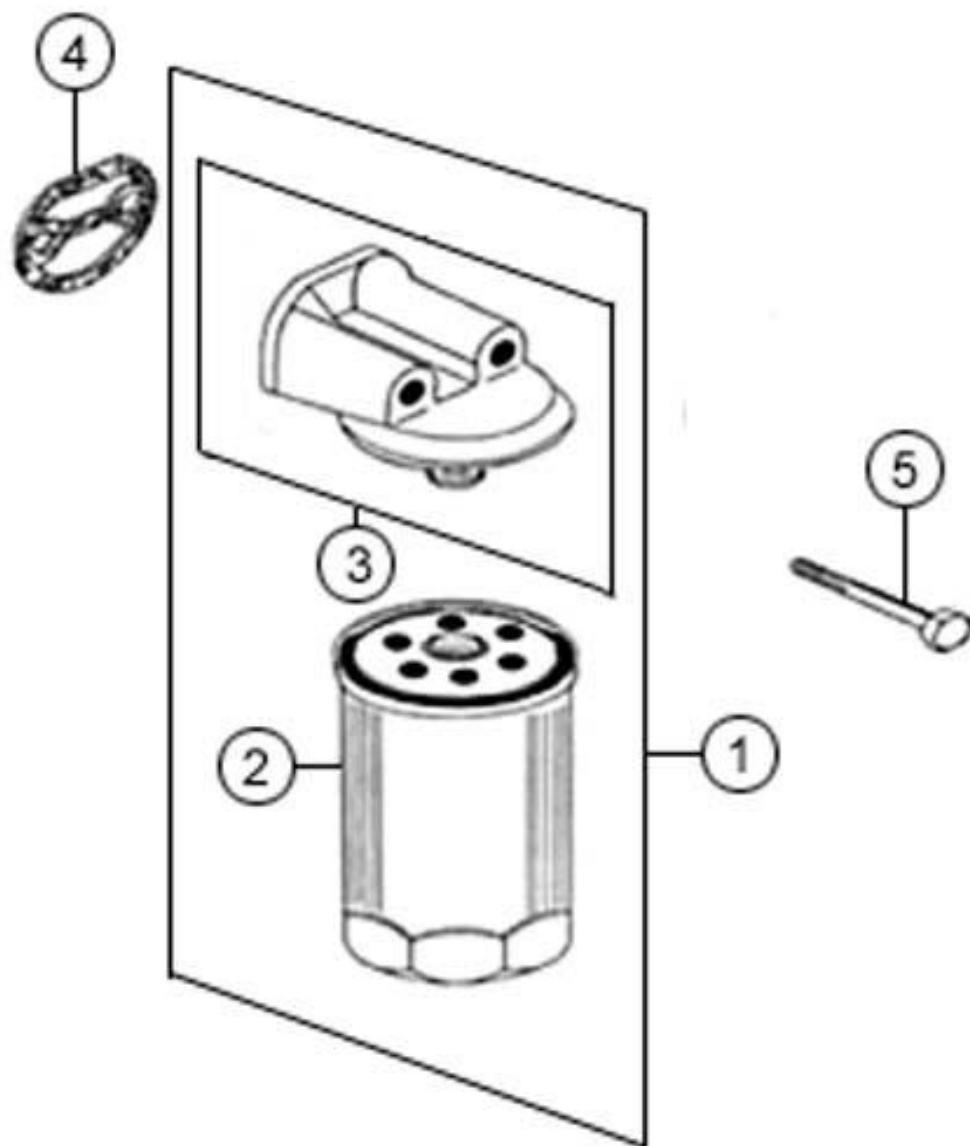
JOINTS AND GASKETS



JOINTS AND GASKETS

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
1	49SG3001	Gasket Cylinder Head	1	
2	49SG3076	Joint Induction Manifold	1	
3	49SG3023	Joint Cylinder Head Cover	1	
4	49SG3075	Joint Cylinder Head Water Outlet Body	1	
5	49SG3005	Joint Exh Manifold	1	
6	99S31811	Joint Sump To Block Assembly	1	
7	49S30190	Joint Rear End Oil Seal	1	
8	49S30201	Joint Cyl Block To Lub Oil Filter	1	
9	49S30196	Joint Water Pump Back Plate	1	
10	49S30197	Joint Water Outlet Connection Top	1	
11	49S30138	Joint L.O.Filler	1	
12	49S30142	Joint Front Cover To Case	1	
13	49SG3068	Big End Link Piece	1	
14	49SG3067	Small End Link Piece	1	
15	49S30266	Joint Lub. Oil Filler (T/C Cover)	1	
16	49S30199	Joint Tachometer Drive	1	
17	49SG3074	Joint Water Inlet Body	1	
18	49DE0162	Joint-Turbocharger Oil Drain	1	
19	S4004964	Joint-Turbocharger	1	
20	S4004921	Joint (FIP) Pump to T.C	1	
21	00490016	Joint Lub Oil Suction Pipe Flange To Pump	1	
22	49S30192	Joint Timing Case To Cyl Block (Leakless)	1	
23	S4004963	Joint – TurboCharger To Exhaust Pipe	1	

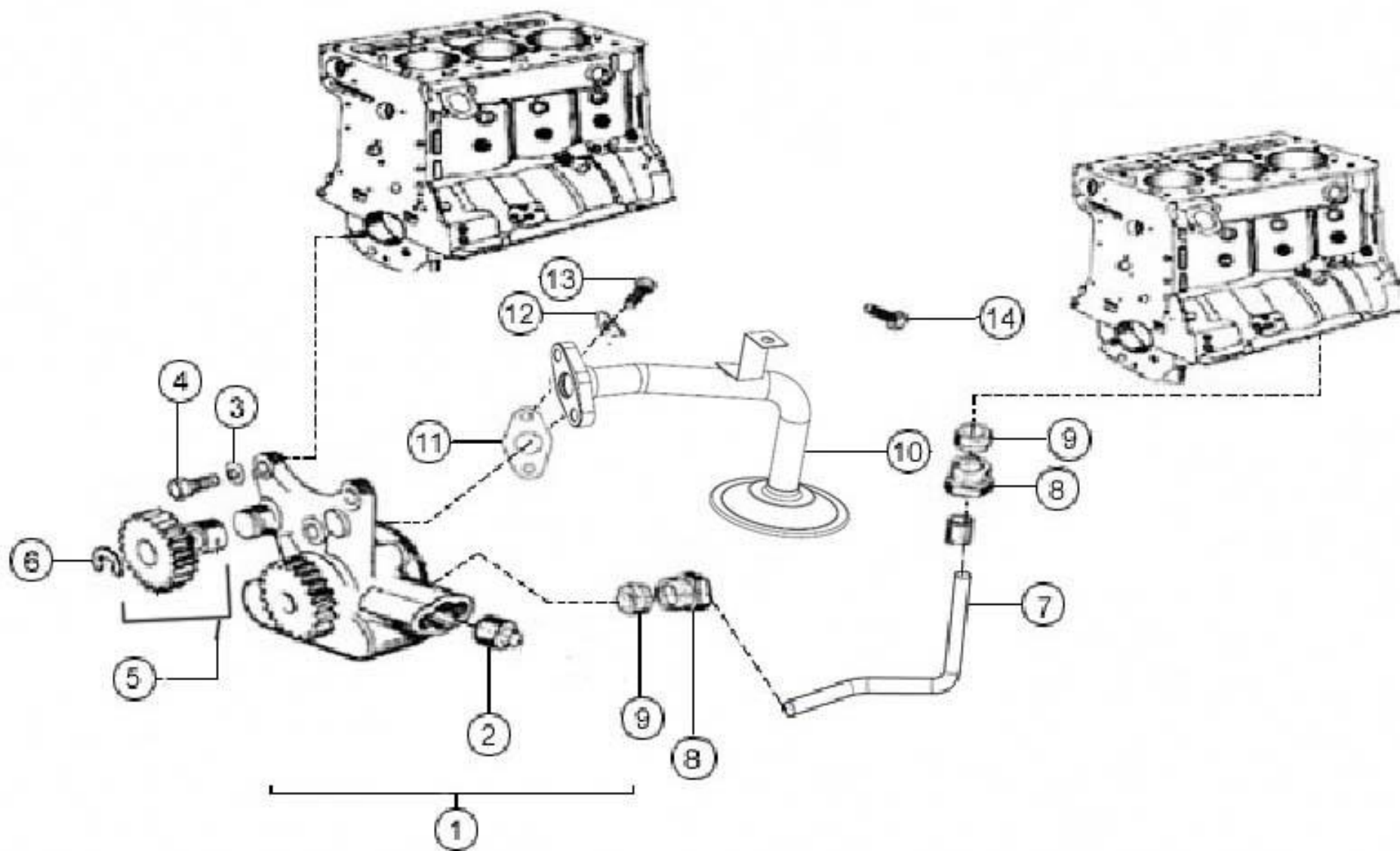
LUBRICATING OIL FILTER



LUBRICATING OIL FILTER

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
1	DE005501	Lub Oil Filter Assy-Canister Type (Comprising Items 02 and 03)	1	
2	02654408	Filter Lub Oil	1	
3	37764251	Head Lub Oil Filter Assembly	1	
4	49S30201	Joint Cylinder Block to Lub Oil Filter	1	
5	74SG3045	Setscrew Lub Oil Filter	2	

LUBRICATING OIL PUMP



LUBRICATING OIL PUMP

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
01	99S30964	Pump Lub Oil Assembly(Flanged Type)	1	
02	32712715	Plunger Lub Oil Pump	1	
03	00920053	Spring Washer	3	
04	74S30121	Setscrew Lub Oil Pump Assy To Frt Brg cap	3	
05	99S30540	Gear Lub Oil Pump Idler Assy(Items 9&10)	1	
06	00180831	Circlip,Pump Idler Gear Retaining	1	
07	34711129	Pipe,Lub Oil Delivery	1	
08	S4005711	Gland Nut Lub Oil Pump And Delivery Pipe	2	
09	00560244	Nipple Lub Oil Pump	2	
10	99S31377	Pipe Lub Oil Suction Assly-Flange Type	1	
11	00490016	Joint	1	
12	00920798	Washer	2	
13	S4007403	Setscrew Suction Pipe To Oil Pump	2	
14	74SG3081	Setscrew, Suction Pipe Clamping	2	

LUBRICATING OIL SUMP

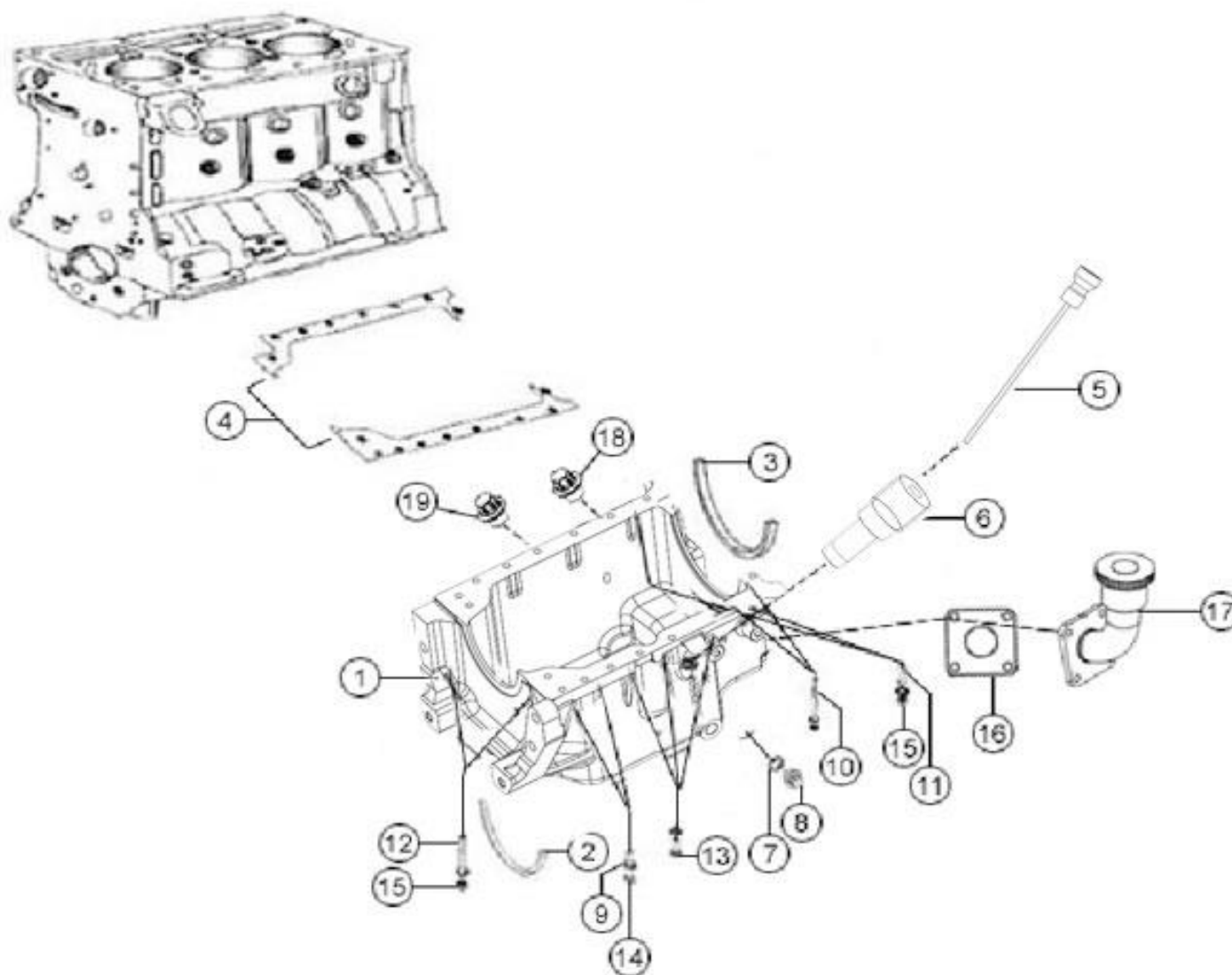
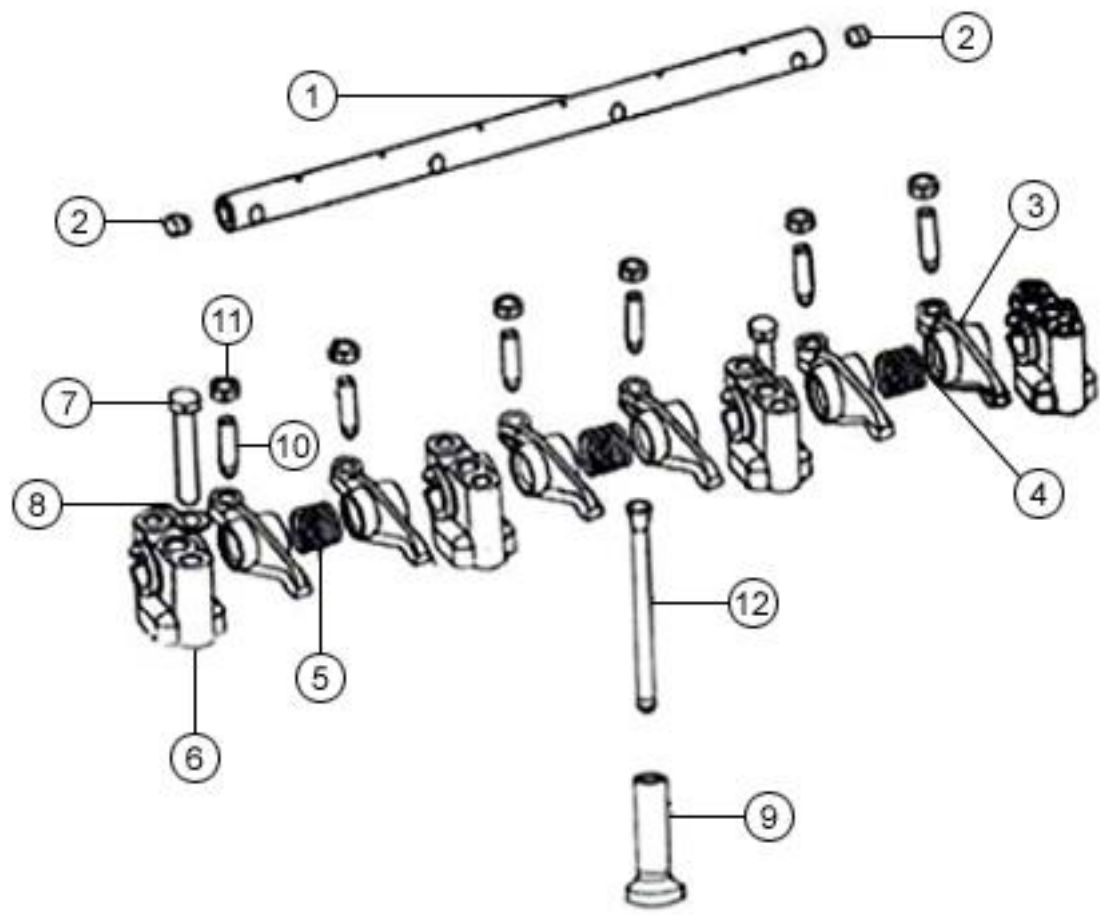


Plate Reference	Part Number	Description	LUBRICATING OIL SUMP	Remarks
			Quantity Per Group	
01	83SG3035	Sump Lubricating Oil	1	
02	49SG3067	Small End Link Piece	1	
03	49SG3068	Big End Link Piece	1	
04	99S31811	Joint Lubricating Oil Sump to Block Assembly	1set	
05	32SG3008	Dipstick	1	
06	20SG3007	Union Dipstick Lub Oil	1	
07	73S30025	O'Ring	1	
08	65DE0051	Plug Sump Drain	1	
09	00920053	Spring Washer	10	
10	S4007471	Setscrew Sump to Rear End Oil Seal Housing	3	
11	S4008243	Stud Cylinder Block to Sump – Rear	2	
12	S4008244	Stud Sump To Timing Case – Front	2	
13	74SG3074	Flanged Bolt	6	
14	74S30242	Setscrew	6	
15	57SG3013	Nut Sump to Block (CH-3187)	4	
16	49DE0138	Joint Lub Oil Filler	1	
17	99DE1788	Filler Lub Oil Assembly	1	
18	65DE0060	Sump Dummy Plug -1	1	
19	65DE0051	Sump Dummy Plug -2	1	

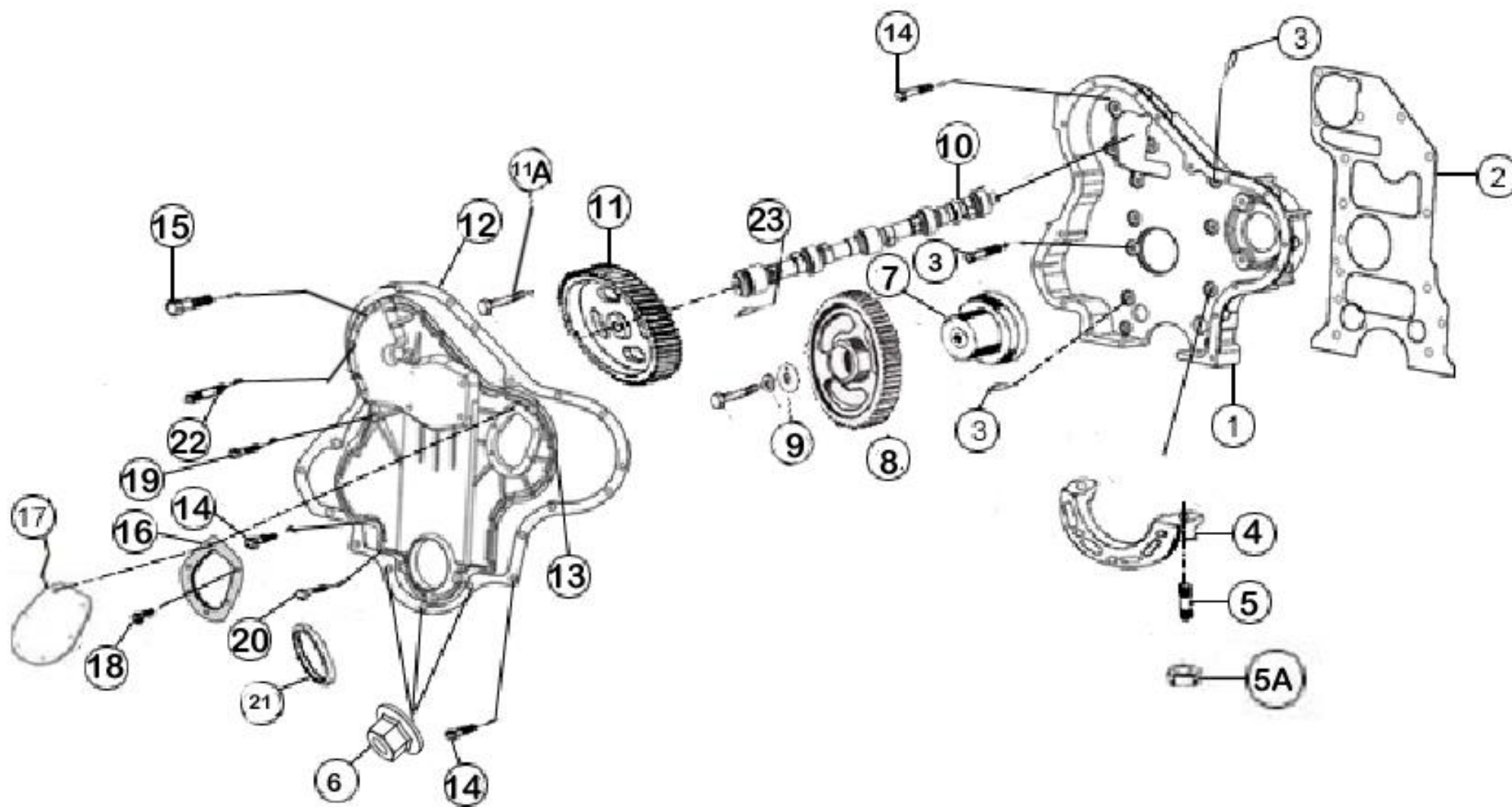
ROCKER SHAFT ASSEMBLY



ROCKER SHAFT ASSEMBLY

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
	99SG3020	Rocker Shaft Assembly (Include items 1, 2, 3, 4, 5, 6, 10&11)		
1	75SG3001	Rocker Shaft	1	
2	00650507	Plug Rocker Shaft End	2	
	99SG3022	Rocker Arm Assembly (Include items 3&4)		
3	52SG3001	Rocker Lever	6	
4	05SG3001	Bush Rocker Lever	6	
5	78SG3003	Spring Rocker Shaft Front & Rear	3	
6	10SG3003	Bracket Rocker Shaft	4	
7	74SG4068	Flanged Bolt	8	
8	00920053	Washer Rocker Bracket	8	
9	86SG3001	Tappet	6	
10	72SG3001	Screw Tappet Adjusting	6	
11	57SG3001	Locknut Tappet Adjusting Screw	6	
12	70SG3001	Push Rod	6	

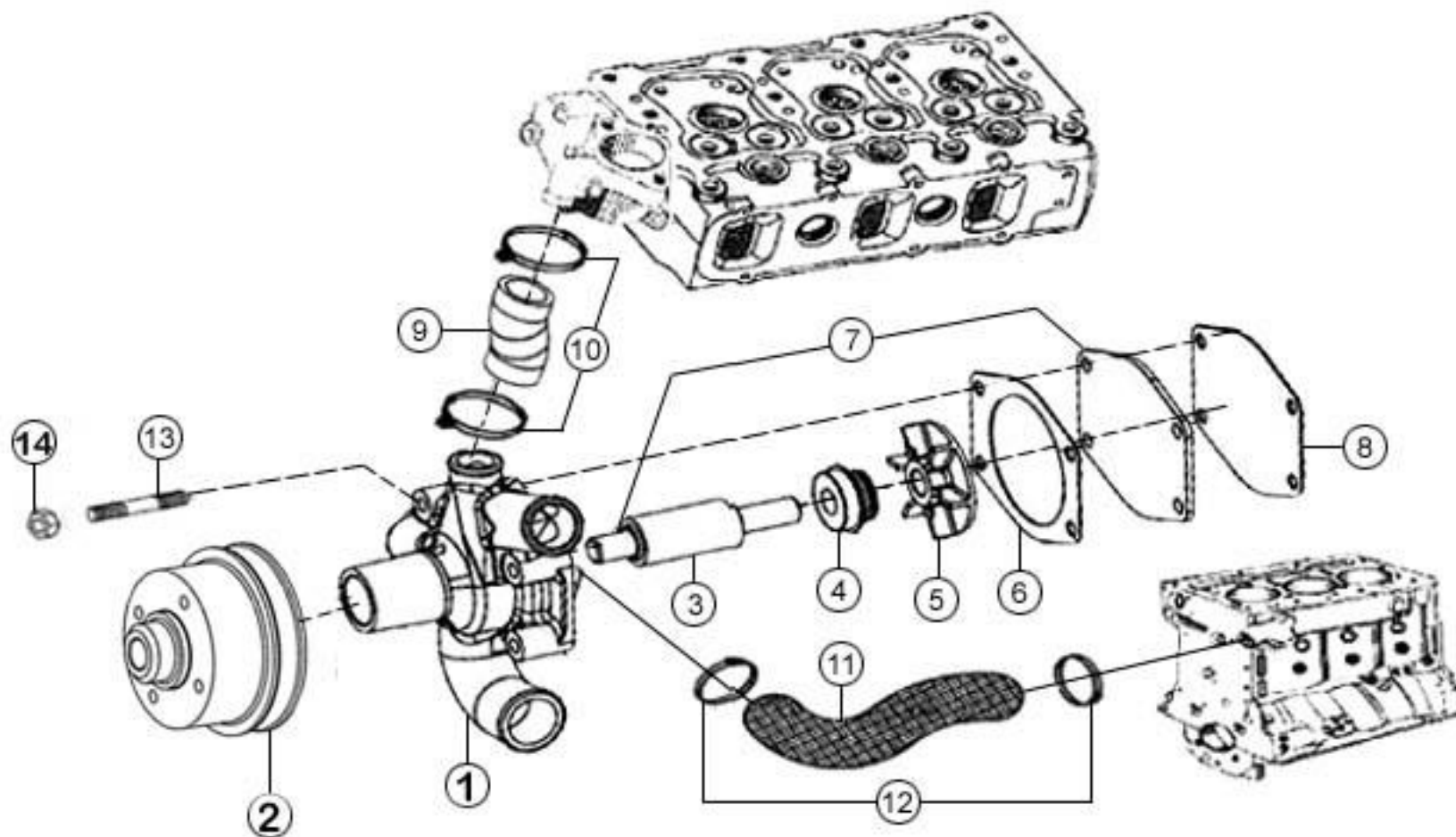
TIMING GEAR AND CAMSHAFT



TIMING GEAR AND CAMSHAFT

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
01	44S30209	Timing Case(Cummins)	1	
02	49S30192	Joint Timing Case to Block	1	
03	74SG3074	Bolt	9	
3A	74SG3073	Bolt	3	
04	24S30111	Bridge Piece	1	
05	S4008214	Stud	5	
5A	S4005702	Nut	2	
06	57SG3013	Nut Flanged	1	
07	00995447	Hub Idler Gear	1	
08	31164362	Gear Idler	1	
09	S4009401	Plate Idler Gear Upper	1	
10	99SG3367	Camshaft assy with pin	1	
11	41SG3053	Camshaft Gear	1	
11A	74SG3079	Flanged Bolt	3	
12	49S30142	Joint Front Cover to Timing Case	1	
13	99DE1439	Timing Case Cover Assembly with Cover & Seal	1	
14	74SG3074	Bolt	11	
15	74SG3071	Bolt	2	
16	49DE0138	Joint Lub. Oil Filler	1	
17	36234114	Plate Timing Case Inspection Cover	1	
18	74SG3082	Bolt	6	
19	74SG3084	Bolt	2	
20	74SG3076	Bolt	2	
21	02415344	Seal Timing Case Cover	1	Not Serviced Separately
22	74SG3044	Bolt	1	
23	00350005	Dowel – Camshaft	1	

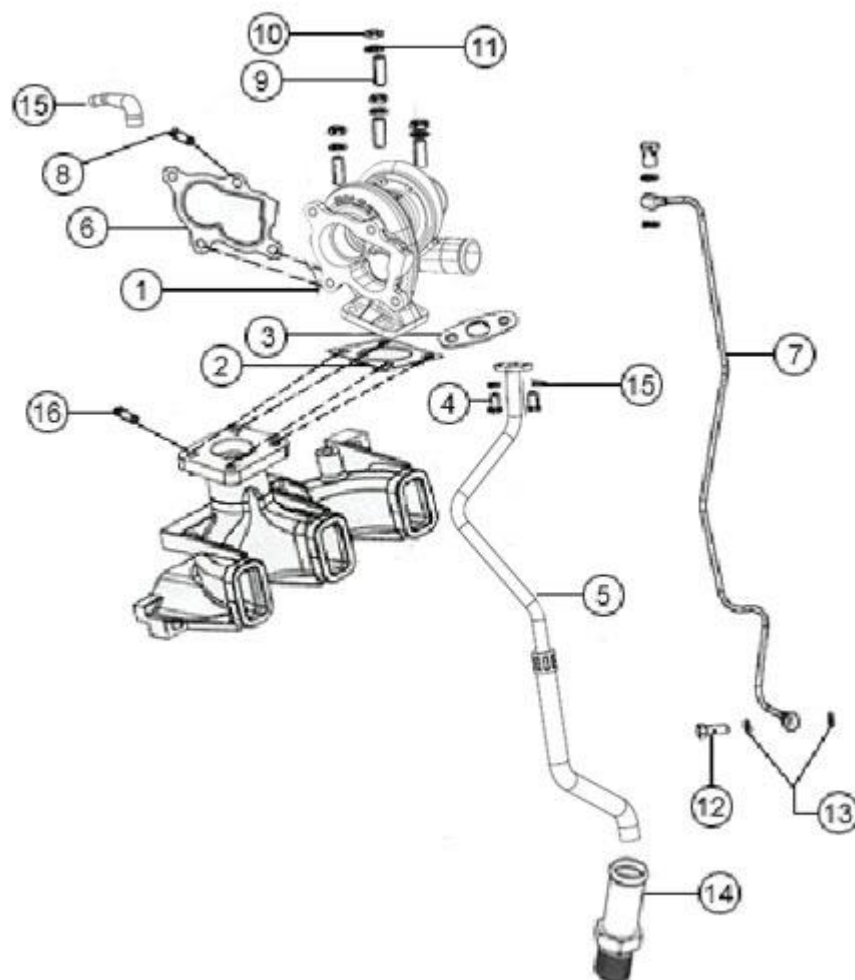
WATER PUMP ASSEMBLY



WATER PUMP ASSEMBLY

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
01	99SG4170	Water Pump Assembly	1	
02	67SG4010	Pulley Water Pump	1	
03	00032346	Shaft Water Pump	1	
04	2418M006	Seal Water Pump (Unitised)	1	
05	37447194	Impeller Water Pump	1	
06	49S30196	Joint Water Pump Dummy Plate	1	
07	DE005495	Water Pump Kit (Includes -3,4,5&6)	1	
08	00941183	Back Plate Water Pump Body to Timing Case Front Cover	1	
09	20SG3068	Hose Bypass Connection to Water Pump Body	1	
10	00180066	Clip Water Connection Hose	2	
11	20SG3004	Hose Water Pump Outlet to Cylinder Block Water Inlet	1	
12	00180067	Clip Water Connection Hose	2	
13	82S20071	Stud Water Pump Mounting	4	
14	57SG3013	Nut	4	

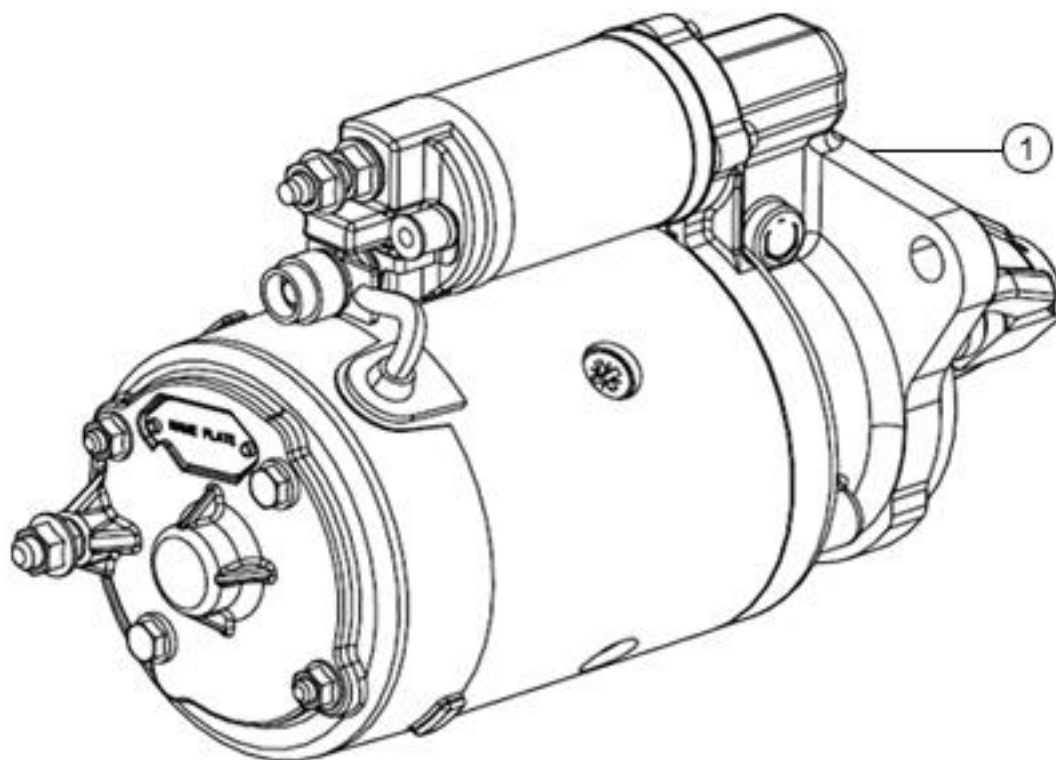
TURBOCHARGER



TURBOCHARGER

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
01	DE006262	Turbocharger	1	
02	S4004963	Joint Turbocharger Inlet	1	
03	49DE0162	Joint Turbocharger Oil Drain	1	
04	S4007418	Setscrew Joint Turbocharger Oil Drain	2	
05	99SG3548	Pipe Assembly Turbocharger Oil Drain	1	
06	S4004963	Joint Turbocharger Exhaust Outlet	1`	
07	99SG3364	Pipe Assembly Turbocharger Oil Feed	1	
08	82S30109	Stud Turbocharger To Exhaust Manifold	.4	
09	S4005710	Nut	4	
10	00920053	Washer	2	
11	09DE0006	Banjo Bolt Pipe Assembly Oil Feed(Block End)	1	
12	92DE0009	Banjo Washer Pipe Assembly Oil Feed	4	
13	20SG4052	Union – Turbocharger Oil Drain	1	
14	00920052	Washer Joint Turbocharger Oil Drain	1	
15	20SG3057	House Inlet Manifold To Turbocharger	1	
16	82S30063	Stud Cyl. Head Ex. M/F – CH3189	4	

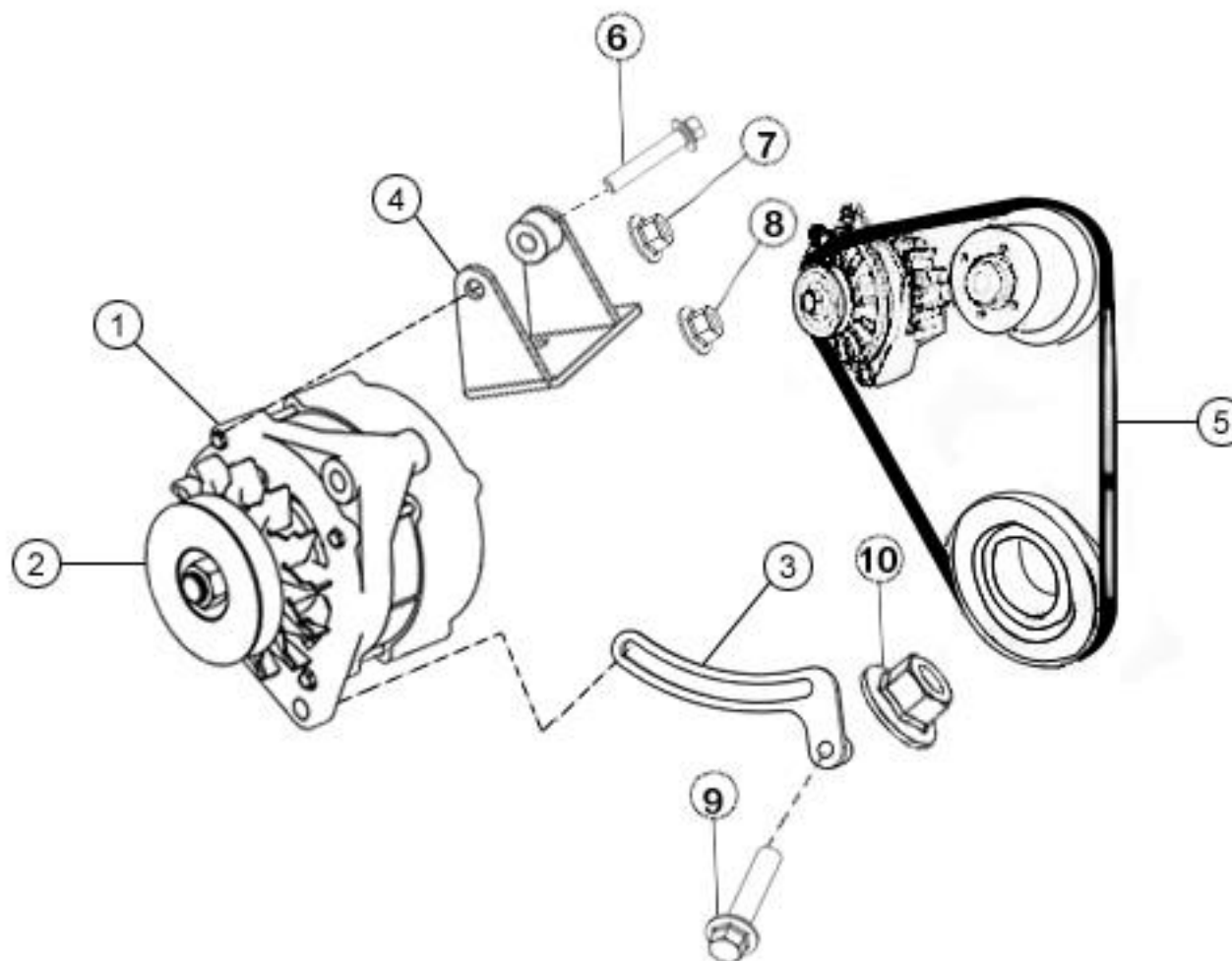
STARTER MOTOR



STARTER MOTOR

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
1	DE006050	Starter Motor (M12 – 12V)	1	

ALTERNATOR MOUNTING



ALTERNATOR MOUNTING

Plate Reference	Part Number	Description	Quantity Per Group	Remarks
01	DE005517	Alternator	1	
02	67DE0022	Pully Alternator	1	
03	10SG4054	Bracket Alternator	1	
04	52S30083	Lever Alternator	1	
05	07DE0028	Belt (Cogged Type)	1	
06	23143048	Flanged Bolt	1	
07	2318A604	Flanged Nut	1	
08	57DE0103	Flanged Nut	2	
09	74SG3071	Bolt	1	
10	57SG3013	Flanged Nut	1	