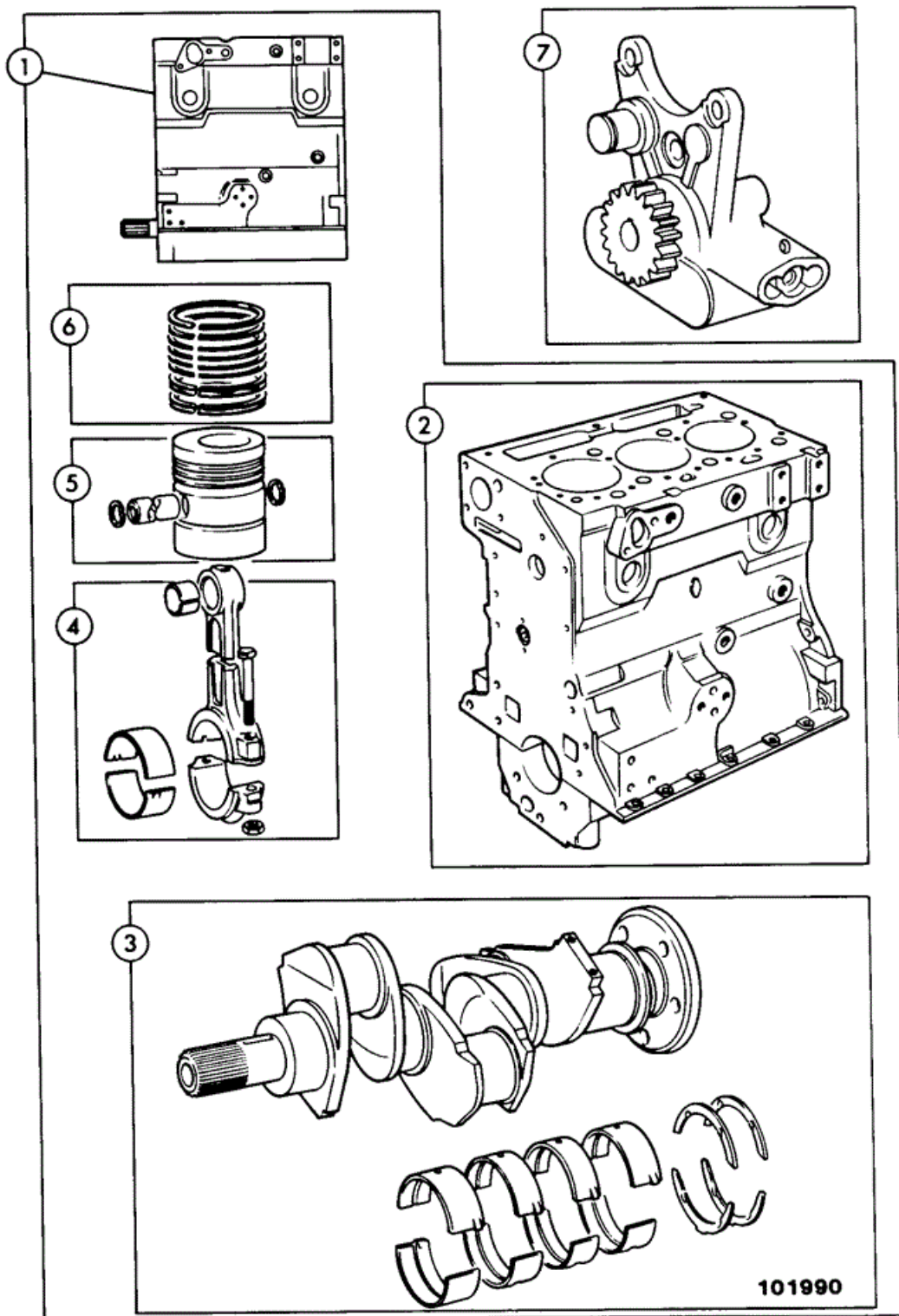




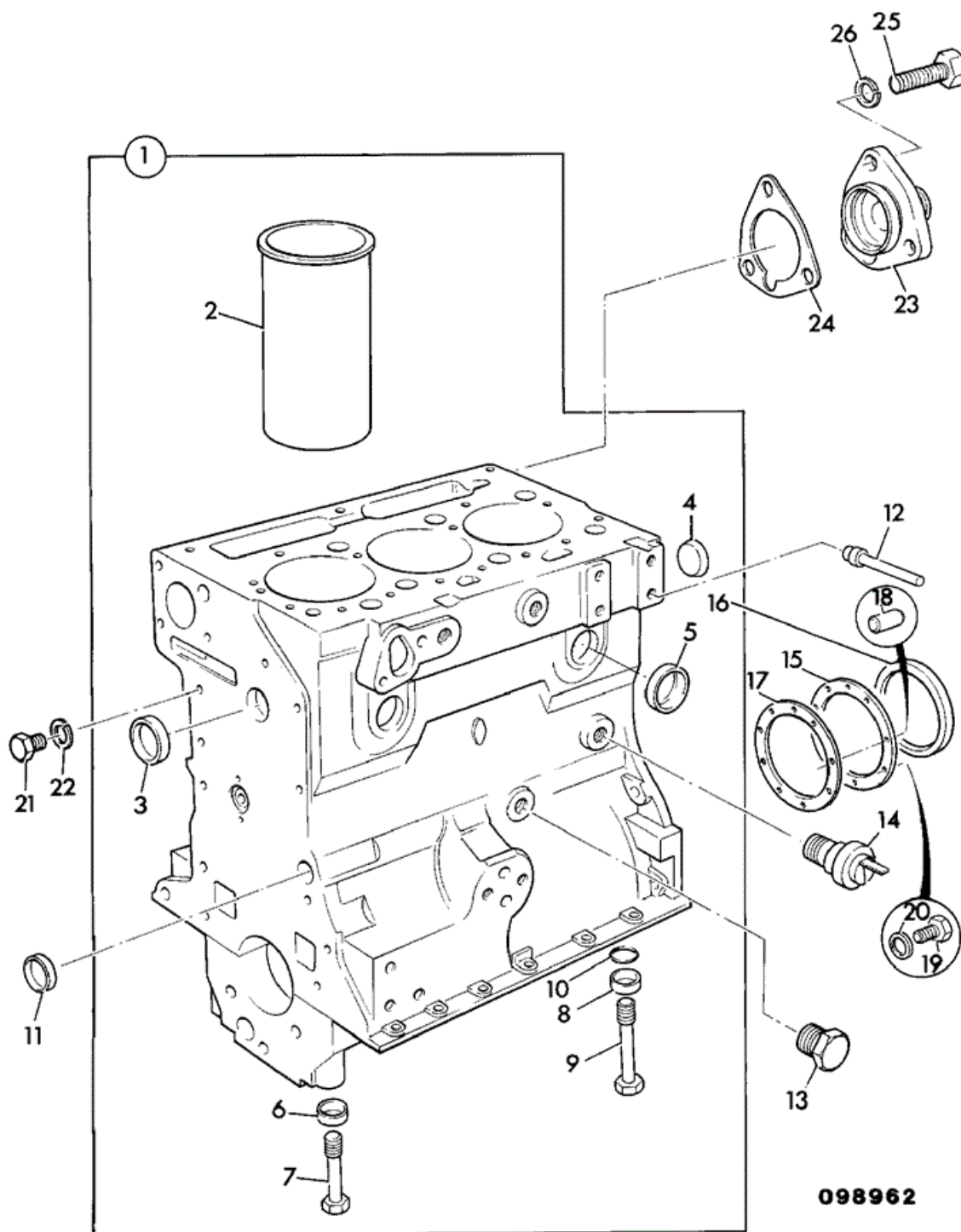
9802/2270 L1-2-2 ENGINE, SHORT CM BUILD



Item	Part #	Change No	Description	Usage Code	QTY
1	02/130290		Engine short		1
2	****		'See Remark' <i>See L1-3-2 Block assembly</i>		1
3	****		'See Remark' <i>See L1-4-2 Crankshaft assembly</i>		1
4	****		'See Remark' <i>See L1-4-2 Con-rod assembly</i>		4
5	****		'See Remark' <i>See L1-4-2 Piston assembly</i>		4
6	****		'See Remark' <i>See L1-4-2 Piston ring kit</i>		4
7	****		'See Remark' <i>See L5-2-1 Oil pump</i>		1
8	02/101810		Plug <i>See Note 2</i>		1
9	02/130169		Plug <i>See Note 2</i>		2
10	816/00357		Adapter <i>See Note 1, For engine oil pressure switch</i>		1



9802/2270 L1-3-1 BLOCK ASSEMBLY CE BUILD



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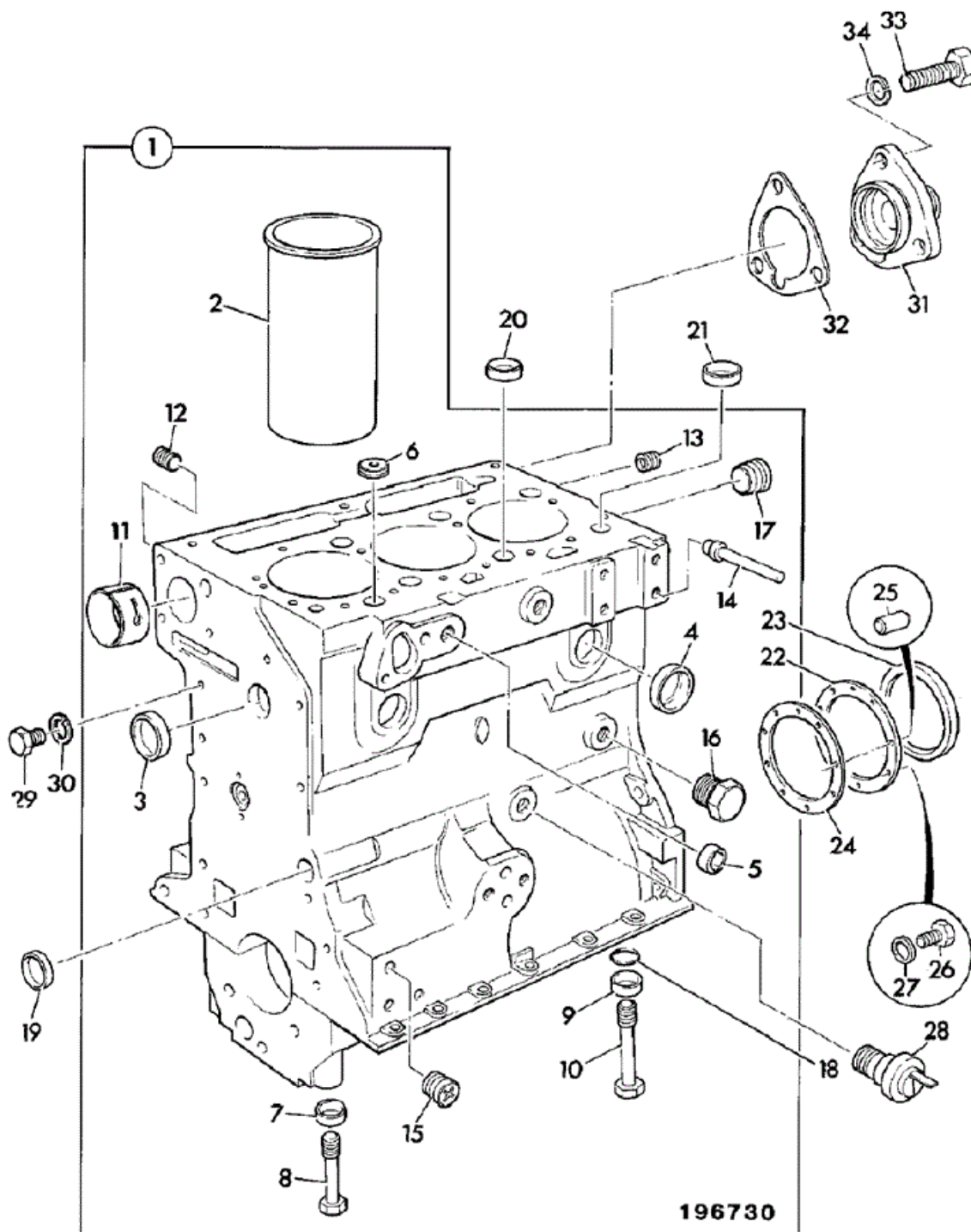
Item	Part #	Change No	Description	Usage Code	QTY
1	02/130000	<EU926067Y	Block cylinder assembly <i>See Note 1</i>		1
1	02/130240	Superseded	Block cylinder, assembly <i>See Note 1</i>		1
1	02/130261		Block cylinder assembly <i>See Note 2</i>		1
1A	:02/192089		Bush camshaft		1
2	:02/130001		Liner cylinder Press-fit		3
2	02/130002		Liner cylinder slip-fit		0
2	02/130171		Liner oversize - 0.25mm		0
2	02/130194		Liner cylinder oversize - 0.76mm		0
3	:02/100396		Plug core D=32mm		1
4	:02/100395	<89/06	Plug core D=22mm		1
4	02/130198		Plug core D=22mm		1
5	:02/100105	Superseded	Plug core D=32mm		4
5	02/100396		Plug core D=32mm		4
6	:02/101893		Thimble		6
7	:02/130003		Bolt		6
8	:02/101893		Thimble		2
9	:02/130004		Bolt		2
10	:02/130005		O Ring		2
11	02/101193		Plug core D=17mm		2
12	02/101827		Plug		1
13	02/100132		Plug drain		1
13	02/100335		Tap drain <i>Alternative</i>		1
14	02/100123		Switch oil pressure		1
15	02/130007		Housing Rear assembly		1
16	:02/101436		Seal rear oil		1
17	02/130008		Gasket		1
18	02/130009		Dowel		2
19	1305/0105Z		Bolt		9
20	1410/0002Z		Washer (5/16" Small)		9
21	1305/0102Z		Bolt		2
22	823/00263		Washer		2
23	02/130010	Superseded	Plate		1
23	M.S.S		Multi Supersession <i>Part N/A use 23A with item 25A</i>		1
23A	02/130191		Plate cover		1
24	02/130011		Gasket		1
25	1305/0105Z		Bolt		3
25A	02/102007		Screw		3
26	1416/0005Z		Washer spring - 5/16" Zinc plated		3

Note 1: For Crankshaft,Bearings,Pistons and Con-rods, refer to frame L1-4-1.

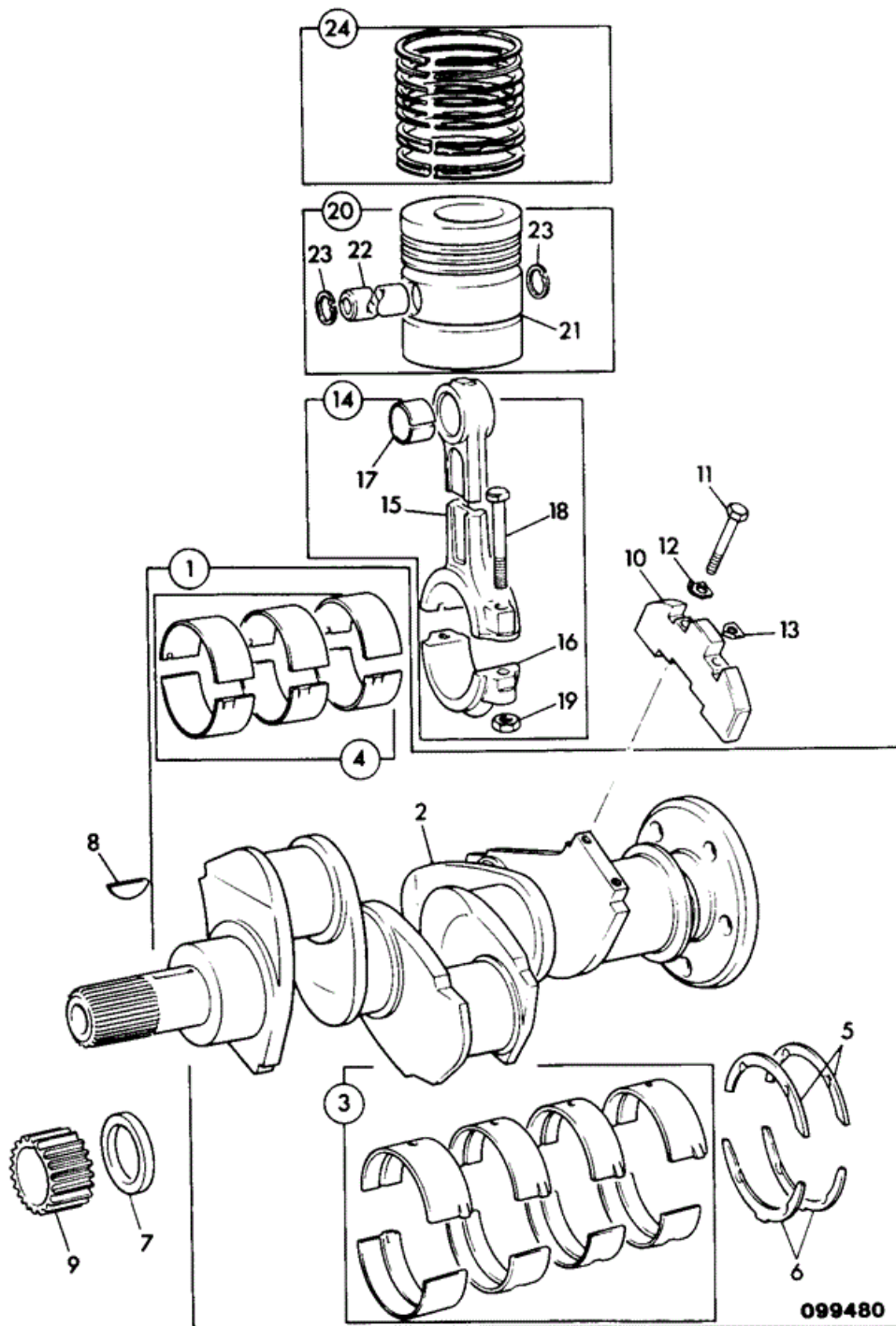
Note 2: For Crankshaft,Bearings,Pistons, and Con-rods, refer to frame L1-4-3.



9802/2270 L1-3-2 BLOCK ASSEMBLY CM BUILD



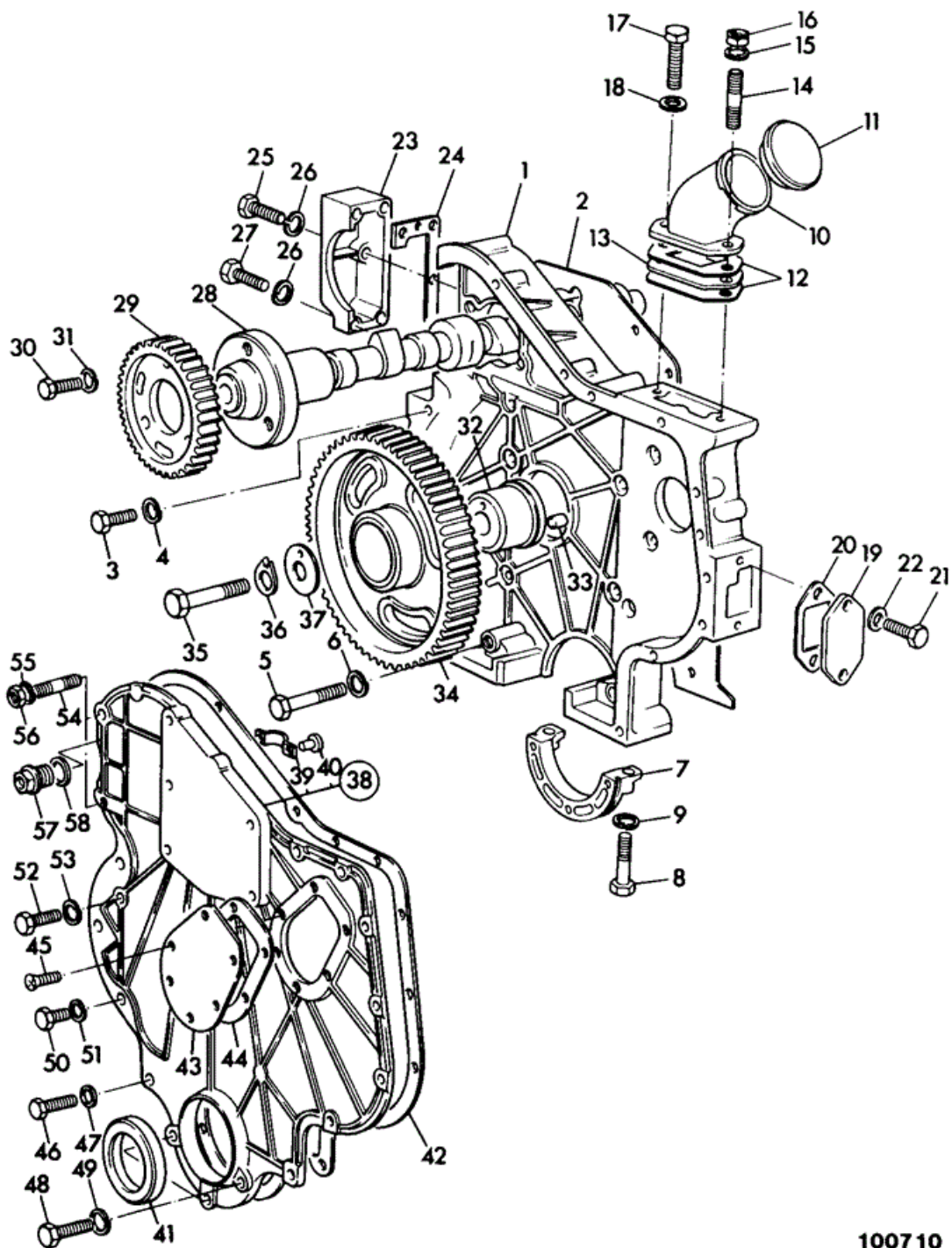
Item	Part #	Change No	Description	Usage Code	QTY
1	02/130202		Block cylinder assembly		1
2	:02/130001		Liner cylinder Press-fit		3
2	02/130002		Liner cylinder slip-fit		0
2	02/130171		Liner oversize - 0.25mm		0
2	02/130194		Liner cylinder oversize - 0.76mm		0
3	:02/100396		Plug core D=32mm		1
4	:02/100396		Plug core D=32mm		4
5	:02/100581		Plug core D=11mm		2
6	:02/130209		Plug		1
7	:02/101893		Thimble		6
8	:02/130003		Bolt		6
9	:02/101893		Thimble		2
10	:02/130004		Bolt		2
11	:02/192089		Bush camshaft		1
12	:02/101810		Plug		1
13	:02/130229		Plug core D=10mm		2
14	:02/101827		Plug		1
15	:02/130169		Plug		10
16	:02/100132		Plug drain		1
17	:02/100410		Plug		1
18	02/130005		O Ring		2
19	02/101193		Plug core D=17mm		2
20	02/130227		Plug		2
21	02/130228		Plug		2
22	02/130007		Housing Rear assembly		1
23	:02/101436		Seal rear oil		1
24	02/130008		Gasket		1
25	02/130009		Dowel		2
26	1305/0105Z		Bolt		9
27	1410/0002Z		Washer (5/16" Small)		9
28	02/100123		Switch oil pressure		1
29	1305/0102Z		Bolt		1
30	823/00263		Washer		1
31	02/130191		Plate cover		1
32	02/130011		Gasket		1
33	02/102007		Screw		3
34	1416/0005Z		Washer spring - 5/16" Zinc plated		3



Item	Part #	Change No	Description	Usage Code	QTY
1	02/130012	Superseded	Crankshaft Assembly		1
1	02/130200	Superseded	Crankshaft assembly		1
1	M.S.S		Multi Supersession <i>Part N.L.A use 1A with item 9A</i>		1
1A	02/130260		Crankshaft assembly		1
			None serviced part		

2	****		<i>Crankshaft</i>		1
3	:02/139001		Kit-bearing main standard		1
3	02/139002		Kit-bearing main undersize - 0.010"		1
3	02/139003		Kit-bearing main undersize - 0.020"		1
3	02/139004		Kit-bearing main undersize - 0.030"		1
4	:02/139009		Kit-bearing big-end standard		1
4	02/139010		Kit-bearing big-end undersize - 0.010"		1
4	02/139011		Kit-bearing big-end undersize - 0.020"		1
4	02/139012		Kit-bearing big-end undersize - 0.030"		1
5	:02/139005		Washer thrust standard		2
6	:02/139007		Washer thrust - bottom standard		2
6	02/139008		Washer thrust - bottom oversize - 0.007"		2
7	02/130020		Spacer <i>Not Fitted or required with item 1A & 9A</i>		1
8	02/130021		Key		1
9	02/139014		Gear crankshaft <i>Used only with item 1</i>		1
9A	02/139020		Gear crankshaft <i>Used only with item 1A</i>		1
10	02/130022		Counterweight <i>See Note 1</i>		2
11	02/130023		Screw		4
12	02/130024		Washer tab		2
13	02/130025		Washer tab		2
14	02/130013		Rod connecting		3
15	****		None serviced part <i>Con-rod</i>		1
16	****		None serviced part <i>Cap</i>		1
17	:02/139013		Bush small-end		1
18	:02/130015		Bolt		2
19	:02/130016		Nut		2
20	02/130017	<EU926067Y	Piston assembly 5 ring		3
20	02/130248		Piston assembly 4 ring		3
21	****		None serviced part <i>Piston</i>		1
22	****		None serviced part <i>Gudgeon pin</i>		1
23	:02/130018		Circlip		2
24	02/130019	<EU926067Y	Kit-piston ring 5 ring		3
24	02/130204		Kit-piston ring 4 ring		3

Note 1: Must be fitted in matched pairs as supplied.



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Item	Part #	Change No	Description	Usage Code	QTY
1	02/130034		Casing timing		1
2	02/130035		Gasket timing case to block		1
3	02/130036		Screw		12
4	1416/0005Z		Washer spring - 5/16" Zinc plated		12
5	1305/3112Z		Bolt		2

6	1416/0005Z		Washer spring - 5/16" Zinc plated		2
7	02/130037		Cover		1
8	1305/3109Z		Bolt		2
9	1416/0005Z		Washer spring - 5/16" Zinc plated		2
10	02/130038	Superseded	Tube oil filler		1
10	M.S.S		Multi Supersession <i>Part N.L.A use 10A with items 11A, 17A & 18A</i>		1
10A	02/130192		Tube oil filler		1
11	02/100037	<EU894544W	Cap oil filler		1
11A	02/130193	>EU894545W	Cap oil filler		1
12	02/130040		Gasket		2
13	02/130039		Strainer		1
14	02/130041	<EU894544W	Stud		1
15	1416/0004Z	<EU894544W	Washer spring		1
16	1340/0002Z	<EU894544W	Nut		2
16	1340/0002Z	>EU894545W	Nut		1
17	1305/1505Z		Bolt		1
17A	1305/1504Z		Screw 1/4-20X3/4"unc		1
18	1416/0004Z		Washer spring		1
18A	1416/0004Z		Washer spring		1
19	02/130042		Plate Cover		1
20	02/130040		Gasket		1
21	1305/1503Z		Bolt		2
22	1416/0004Z		Washer spring		2
23	02/130043		Cover		1
24	02/130044		Gasket		1
25	1305/1614Z		Bolt		1
26	1416/0006Z		Washer spring		4
27	1305/1608Z		Setscrew (5/16 UNC x 1-1/4")		3
28	02/100207		Camshaft		1
29	02/190007		Gear camshaft		1
30	02/130014		Screw		3
31	1416/0005Z		Washer spring - 5/16" Zinc plated		3
32	02/130045		Hub		1
33	02/130046		Dowel		1
34	02/139015		Gear Idler		1
35	02/130047		Screw		1
36	02/130048		Washer		1
37	02/130049		Plate		1
38	02/130050		Cover Timing		1
39	:02/130053		Clip Spring		1
40	:02/130054		Rivet		1
41	:02/130051		Seal Front oil		1
42	02/130052		Gasket timing cover		1
43	02/130055		Cover Inspection		1
44	02/130056		Gasket		1
45	02/130057		Screw		6
46	1305/1505Z		Bolt		8
47	1416/0004Z		Washer spring		8
48	02/130168		Bolt		3
49	1416/0005Z		Washer spring - 5/16" Zinc plated		3

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