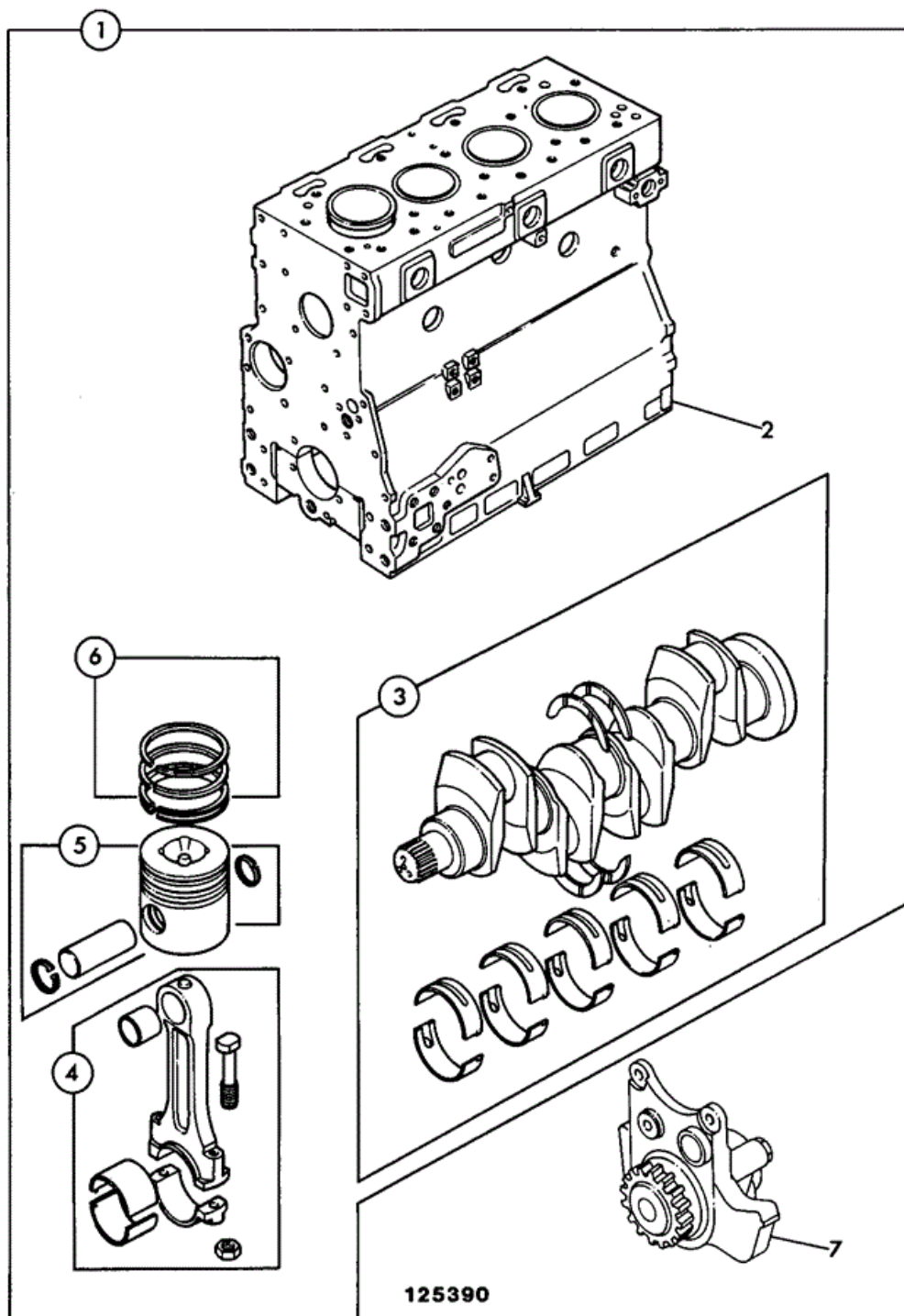




9802/7620 N1-2-1 ENGINE SHORT AA BUILD

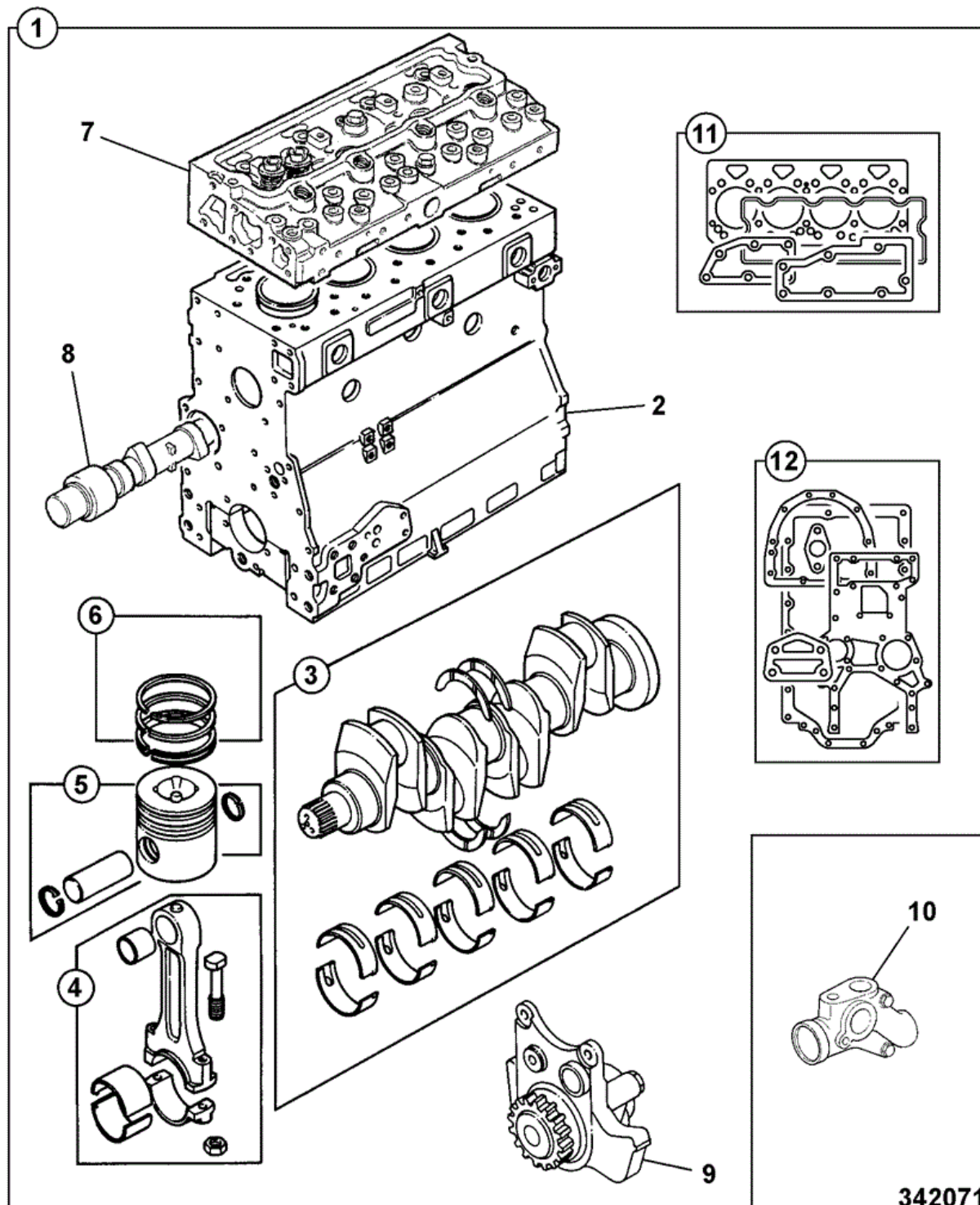


Item	Part #	Change No	Description	Usage Code	QTY
1	02/200440		Engine short, nat/asp		1
2	****		'See Remark' <i>See frame N1-3-1 - Block assembly</i>		1
3	****		'See Remark' <i>See frame N1-4-1 - Crankshaft assembly</i>		1
4	****		'See Remark' <i>See frame N1-4-1 - Con-rod assembly</i>		4
5	****		'See Remark' <i>See frame N1-4-1 - Piston assembly</i>		4
6	****		'See Remark' <i>See frame N1-4-1 - Piston ring kit</i>		4
7	****		'See Remark' <i>See frame N5-2-1 - Oil pump</i> <i>See Note 1</i>		1

Note 1: Not included in item 1.



9802/7620 N1-2-2 ENGINE, LONG AA BUILD



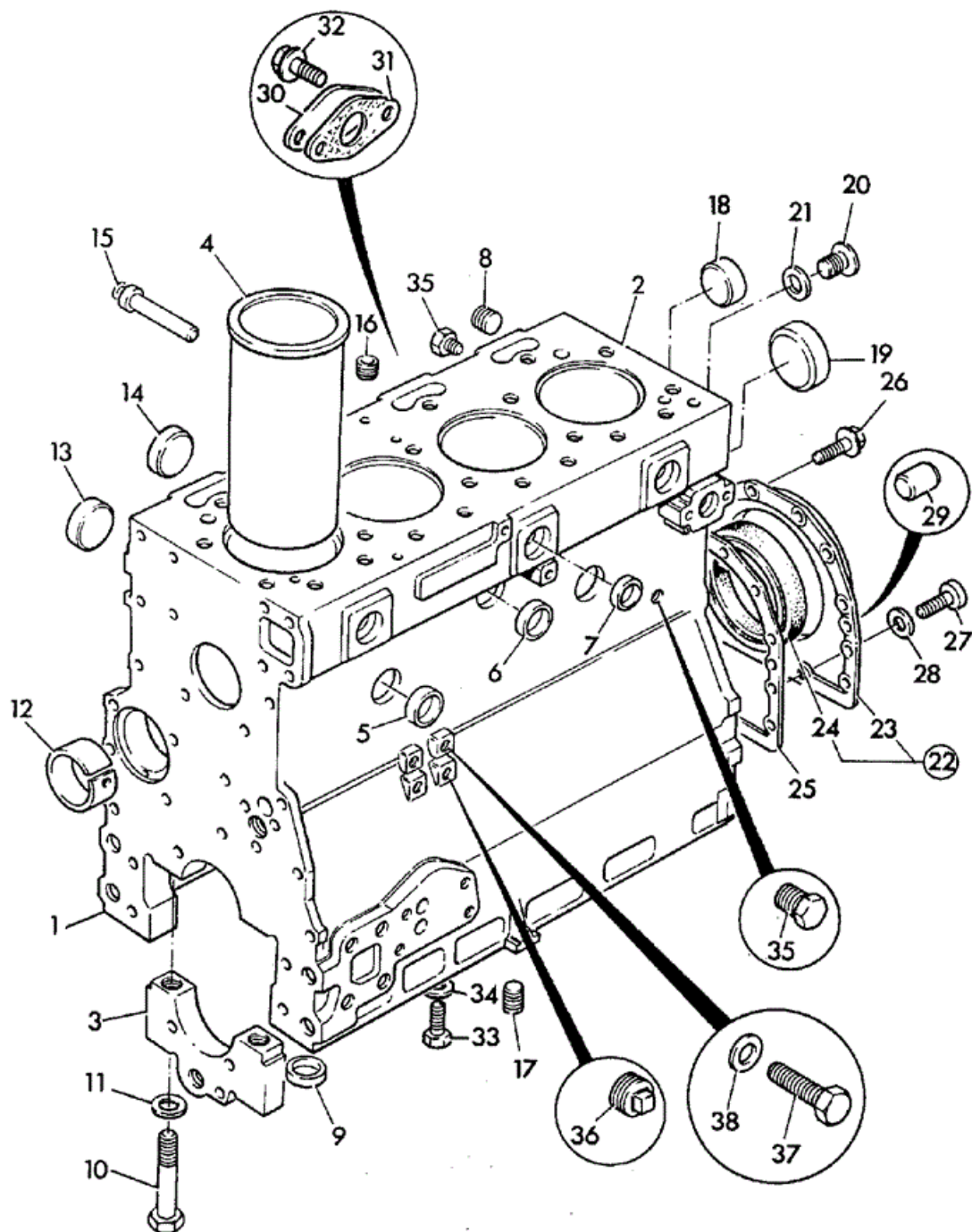
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Item	Part #	Change No	Description	Usage Code	QTY
1	02/202530		Engine long AA build		1
2	****		'See Remark' <i>See frame N1-3-1, Block Assembly</i>		1

3	****		'See Remark' <i>See frame N1-4-1, Crankshaft assembly</i>		1
4	****		'See Remark' <i>See frame N1-4-1, Con-rod assembly</i>		4
5	****		'See Remark' <i>See frame N1-4-1, Piston assembly</i>		4
6	****		'See Remark' <i>See frame N1-4-1, Piston ring kit</i>		4
7	****		'See Remark' <i>See frame N2-1-1, Cylinder head</i>		1
8	****	<EU567032V	'See Remark' <i>See frame N1-6-1, Timing case</i>		1
8	****	>EU567033V	'See Remark' <i>See frame P1-6-1, Timing case</i>		1
9	****		'See Remark' <i>See frame N5-2-1, Oil pump</i>		1
10	****		'See Remark' <i>See frame N5-2-1 Oil relief valve</i>		1
11	****		'See Remark' <i>See frame N8-1-1, Gasket set</i>		1
12	****		'See Remark' <i>See frame N8-1-1, gasket set</i>		1



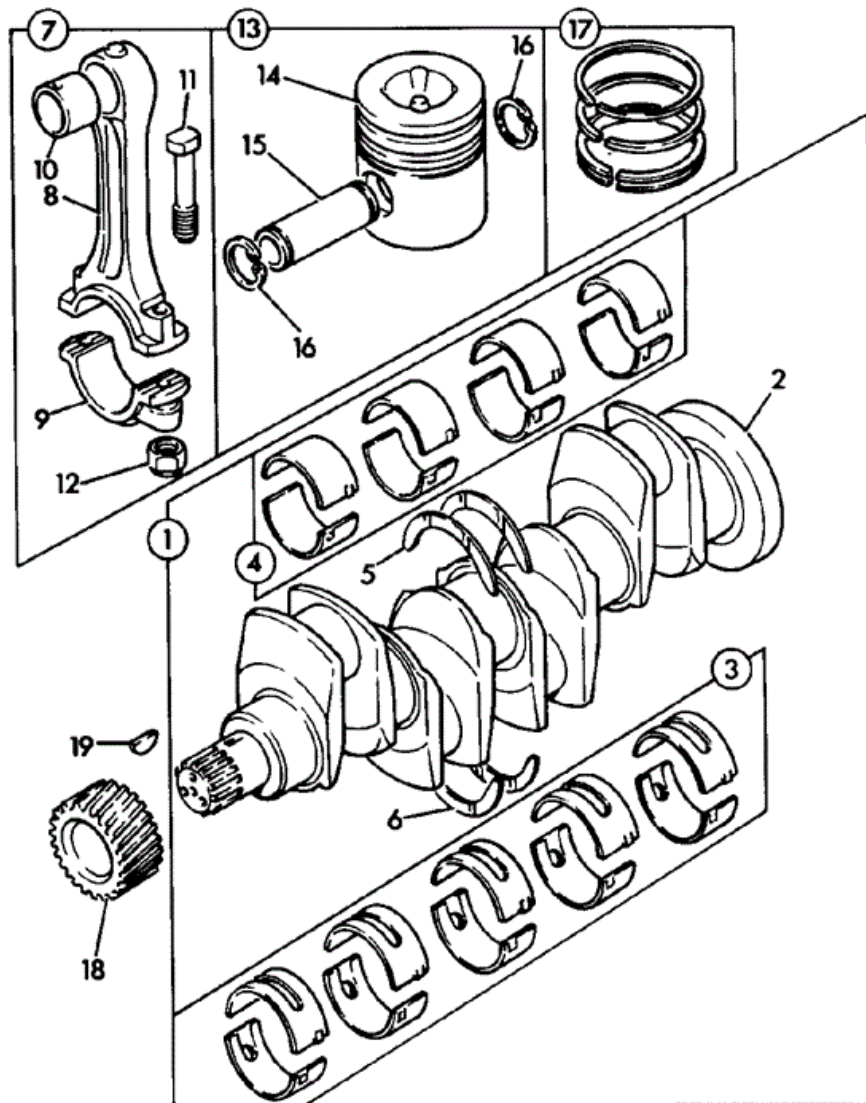
9802/7620 N1-3-1 BLOCK ASSEMBLY AA BUILD



Item	Part #	Change No	Description	Usage Code	QTY
1	02/200190		Block cylinder assembly		1
2	****		None serviced part <i>Block</i>		1
3	****		None serviced part <i>Bearing Cap</i>		5
4	:02/200002		Liner cylinder, slip fit		4
5	:02/200003		Plug core" D=26mm		2
6	:02/100396		Plug core D=32mm		5
7	:02/100396		Plug core D=32mm		1
8	:02/100134		Plug		1
9	:02/100101		Thimble		10
10	:02/100102		Bolt		10
11	:02/100615		Washer		10
12	:02/192001		Bush camshaft		1
13	:02/100397	Superseded	Plug core D=38mm		4
13	:02/200454		Plug core D=38mm		4
14	:02/100397	Superseded	Plug core D=38mm		2
14	:02/200454		Plug core D=38mm		2
15	:02/101827		Plug		1
16	02/100108		Plug		1
17	02/100582		Plug core D=16mm		1
18	02/100397	Superseded	Plug core D=38mm		4
18	02/200454		Plug core D=38mm		4
19	02/100107		Plug core D=50mm		1
20	02/100111	Superseded	Plug		1
20	02/200827		Plug		1
21	823/00276		Washer		1
22	02/200223	Superseded	Housing rear seal		1
22	M.S.S		Multi Supersession <i>Part N/A use 22A with item 27A</i>		1
22A	02/200523	Superseded	Housing rear seal		1
22A	M.S.S	<EU619893X	Multi Supersession <i>See Note 1</i>		1
22B	02/200958	>EU619894X	Housing rear seal		1
23	****		None serviced part <i>Cover</i>		1
24	:02/101436		Seal rear oil		1
25	02/100113	<EU619893X	Gasket rear seal housing		1
25A	02/201092	>EU619894X	Gasket rear seal housing		1
26	826/00869		Screw flange head		10
26A	826/00869	>EU619894X	Screw flange head		2
27	02/291063		Screw		2
27A	1391/3307Z		Capscrew M8x25mm <i>Used only with item 22A</i>		2
28	02/100307		Washer		2
29	02/100308		Dowel		2
30	02/200004		Plate		1
31	02/200005		Gasket		1
32	02/291031		Bolt		2
33	02/101756		Plug		4
34	823/00287		Washer spacer		4
			Plug drain		

35	02/100132		<i>Water drain</i>		2
35	02/100335		Tap drain <i>Alternative</i>		0
36	826/00765		Plug		1
37	1315/0401Z		Bolt M10 x 10		1
38	823/00273		Washer		1
39	02/100134		Plug		1

Note 1: Part No Longer Available use 22B with items 25A,26A,27A and 1 off bridge piece 02/201094.



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Item	Part #	Change No	Description	Usage Code	QTY
1	02/101825		Crankshaft assembly	P/Ex	1
2	****		None serviced part <i>Crankshaft</i>		1
3	:02/192002		Kit-bearing Main Standard		1
3	02/192003		Kit-bearing Main Undersize - .010inch		1
3	02/192004		Kit-bearing Main Undersize - .020inch		1

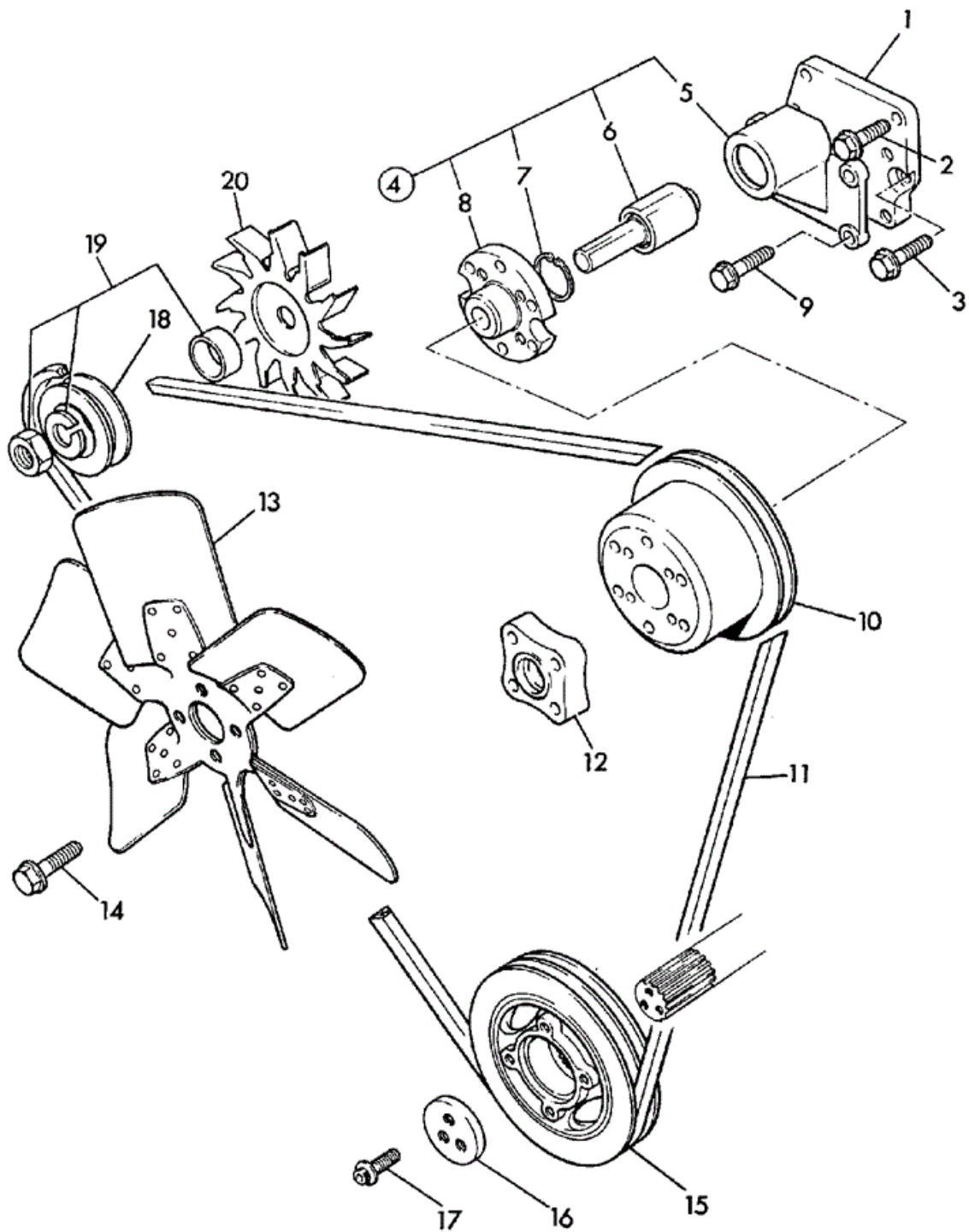
3	02/192005		Kit-bearing Main Undersize - .030inch		1
4	:02/192006		Kit-bearing big end standard		1
4	02/192007		Kit-bearing Big end Undersize - .010inch		1
4	02/192008		Kit-bearing Big end Undersize - .020inch		1
4	02/192009		Kit-bearing Big end Undersize - .030inch		1
5	:02/192083		Washer thrust top - standard		2
5	02/192011		Washer thrust top-oversize 0.19mm		2
6	:02/192084		Washer thrust bottom - standard		2
6	02/192013		Washer thrust btm-oversize 0.19mm		2
7	02/101440		Rod assembly Connecting		4
8	****		None serviced part <i>Con-rod</i>		1
9	****		None serviced part <i>Cap</i>		1
10	:02/192015		Bush small end		1
11	:02/100127	Superseded	Bolt		2
11	02/291072		Bolt		2
12	:02/100128		Nut		2
13	02/200191	Superseded	Piston assembly <i>See Note 1</i>		4
13	N.L.A	<EU531919T	No longer available <i>Part N.L.A use 13A in ENGINE SETS ONLY</i>		1
13	02/200471	Superseded	Piston assembly <i>See Note 2</i>		1
13	N.L.A	>EU531920T	No longer available <i>Part N.L.A use item 13B in ENGINE SETS ONLY</i>		4
13A	02/200849	<EU531919T	Piston assembly		4
13B	02/200904	>EU531920T	Piston assembly		4
14	****		None serviced part <i>Piston</i>		1
15	****		None serviced part <i>Gudgeon pin</i>		1
16	:2203/1040		Circlip		2
17	02/200192		Kit-piston ring		4
18	02/290001		Gear		1
19	02/100038		Key		1

Note 1: Latest piston may be fitted to engines prior to U531920T, But in ENGINE SETS ONLY.

Note 2: Earlier piston may be fitted to engines after U531919T, But in ENGINE SETS ONLY.

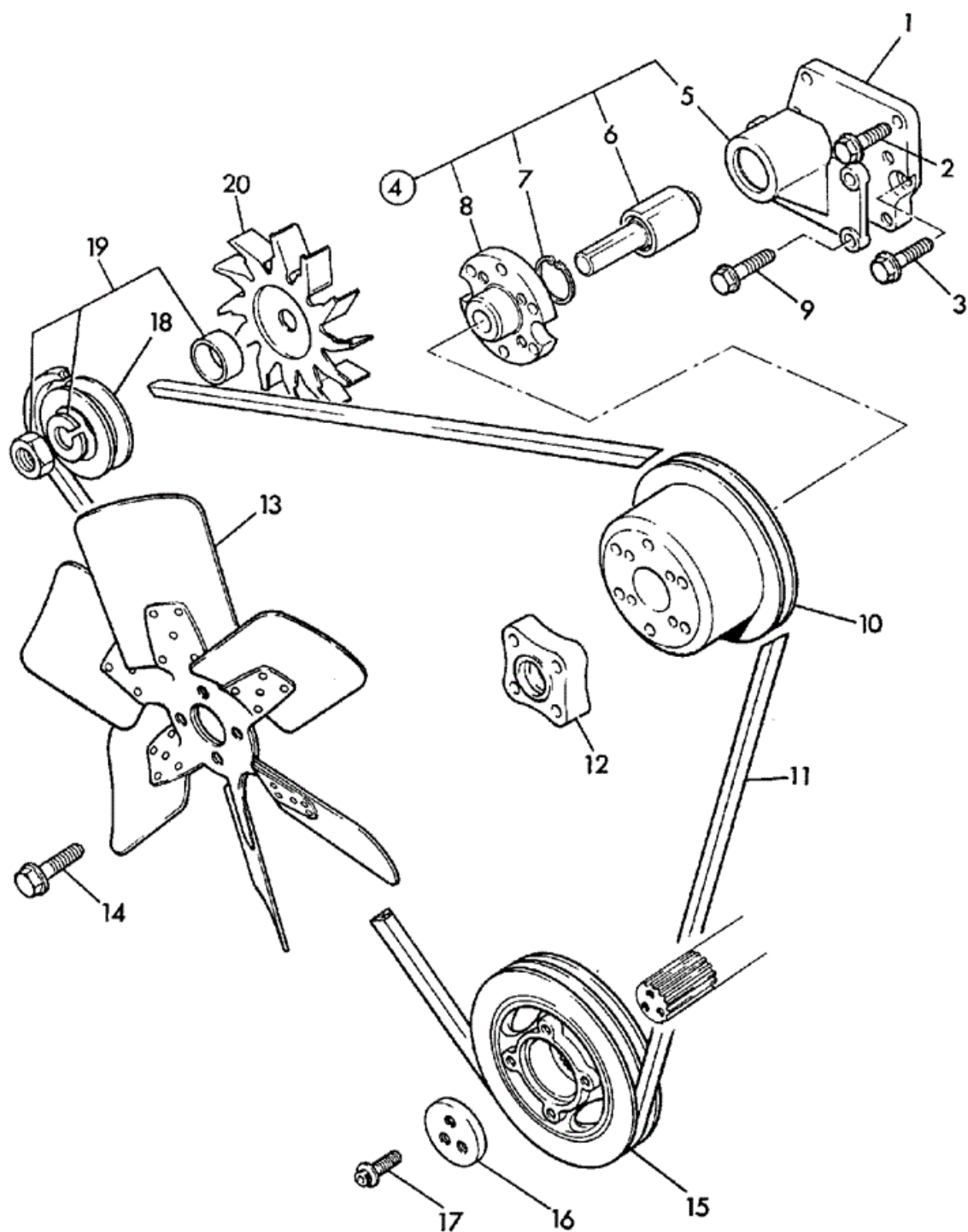


9802/7620 N1-5-1 FANS, PULLEYS & FAN BELT AA BUILD



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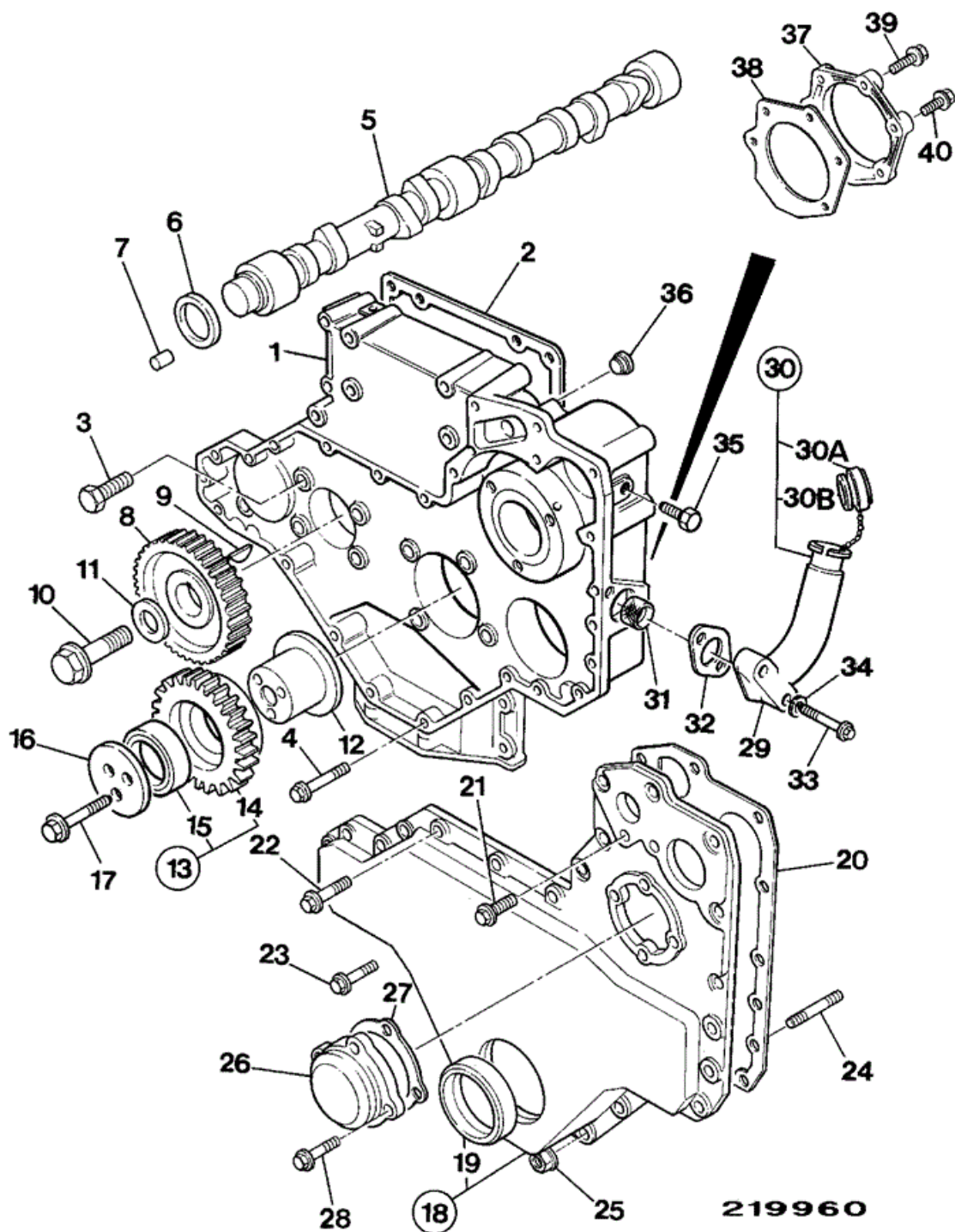
Item	Part #	Change No	Description	Usage Code	QTY
1	****		'See Remark' <i>Not required</i>		1
2	****		'See Remark' <i>Not required</i>		2
3	****		'See Remark' <i>Not required</i>		2
4	02/200370		Housing assembly, fan drive		1
5	****		None serviced part		1
6	:02/200371	Superseded	Bearing		1
6	****		None serviced part <i>Part N/A use item 4</i>		1
7	****		'See Remark' <i>Not fitted</i>		1
8	:02/200372	Superseded	Hub		1
8	****		None serviced part <i>Part N/A use item 4</i>		1
9	02/291041		Bolt		4
10	02/200014		Pulley fan drive		1
11	02/200210	Superseded	Belt fan, pair 1450mm lg		1
11	02/200521		Belt fan, pair		1
12	02/100957		Spacer fan 25.4mm		1
13	209/02321		Fan cooling, 18" 6 blades		1
14	02/291104		Screw		4
15	02/200018		Pulley crankshaft twin groove		1
16	02/200017		Block Thrust		1
17	02/100579		Screw		3
18	02/200212		Pulley alternator D=86mm single groove		1
19	714/10810		Kit-sundry parts		1
20	02/200452		Fan alternator		1



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Item	Part #	Change No	Description	Usage Code	QTY
1	****		'See Remark' <i>Not required</i>		1
2	****		'See Remark' <i>Not required</i>		2
3	****		'See Remark' <i>Not required</i>		2

4	02/200370		Housing assembly, fan drive		1
5	****		None serviced part		1
6	:02/200371	Superseded	Bearing		1
6	****		None serviced part <i>Part N/A use item 4</i>		1
7	****		'See Remark' <i>Not fitted</i>		1
8	:02/200372	Superseded	Hub		1
8	****		None serviced part <i>Part N/A use item 4</i>		1
9	02/291041		Bolt		4
10	02/200014		Pulley fan drive		1
11	02/200210	Superseded	Belt fan, pair 1450mm lg		1
11	02/200521		Belt fan, pair		1
12	02/100957		Spacer fan 25.4mm		1
13	191/47900		Fan		1
14	02/291104		Screw		4
15	02/200018		Pulley crankshaft twin groove		1
16	02/200017		Block Thrust		1
17	02/100579		Screw		3
18	02/200212		Pulley alternator D=86mm single groove		1
19	714/10812		Fan alternator		1
20	02/200452		Fan alternator		1



Item	Part #	Change No	Description	Usage Code	QTY
1	02/200021	Superseded	Casing timing, twin p.t.o		1
1	M.S.S		Multi Supersession <i>Part N.L.A use 1A with items 23A & 23B</i>		1
1A	02/200948		Casing timing, twin p.t.o		1
2	02/200022		Gasket t/case to block		1
3	826/00869		Screw flange head		8

4	02/291033		Bolt		4
5	02/200023		Camshaft		1
6	02/192064		Washer thrust		1
7	2102/0604		Dowel		1
8	02/190034		Gear camshaft		1
9	02/100038		Key		1
10	02/291047		Bolt		1
11	02/291065		Washer		1
12	02/100041		Hub		1
13	02/190033		Gear idler assembly		1
14	:N.S.P.		None serviced part <i>Gear</i>		1
15	:02/192016		Bush		2
16	02/100042		Plate		1
17	02/291073		Screw		3
18	02/200486		Cover timing		1
19	:02/101435		Seal front oil		1
20	02/200027		Gasket timing cover		1
21	02/291026		Bolt		6
23	02/291017		Screw		11
23A	02/291018		Bolt		9
23B	02/291017		Screw		1
24	02/291051		Stud		2
25	02/291058		Nut flanged M8		2
26	02/200028		Cover inspection		1
27	02/200029		Gasket inspection cover		1
28	02/291014		Bolt		4
29	123/94600		Tube Oil filler		1
30	258/45200		Cap & filler neck assembly		1
30A	:02/101484		Cap oil filler		1
30B	::02/100421		Seal		1
31	02/200037		Strainer		1
32	813/00350		Gasket		1
33	1315/3313Z		Bolt M8 x 55		2
34	1420/0007Z		Washer (M8)		2
35	02/291074		Bolt		1
36	02/100409		Plug taper threaded		1
37	02/200034		Plate		1
38	02/200035		Gasket		1
39	02/291033		Bolt		5
40	02/291037		Bolt		1

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