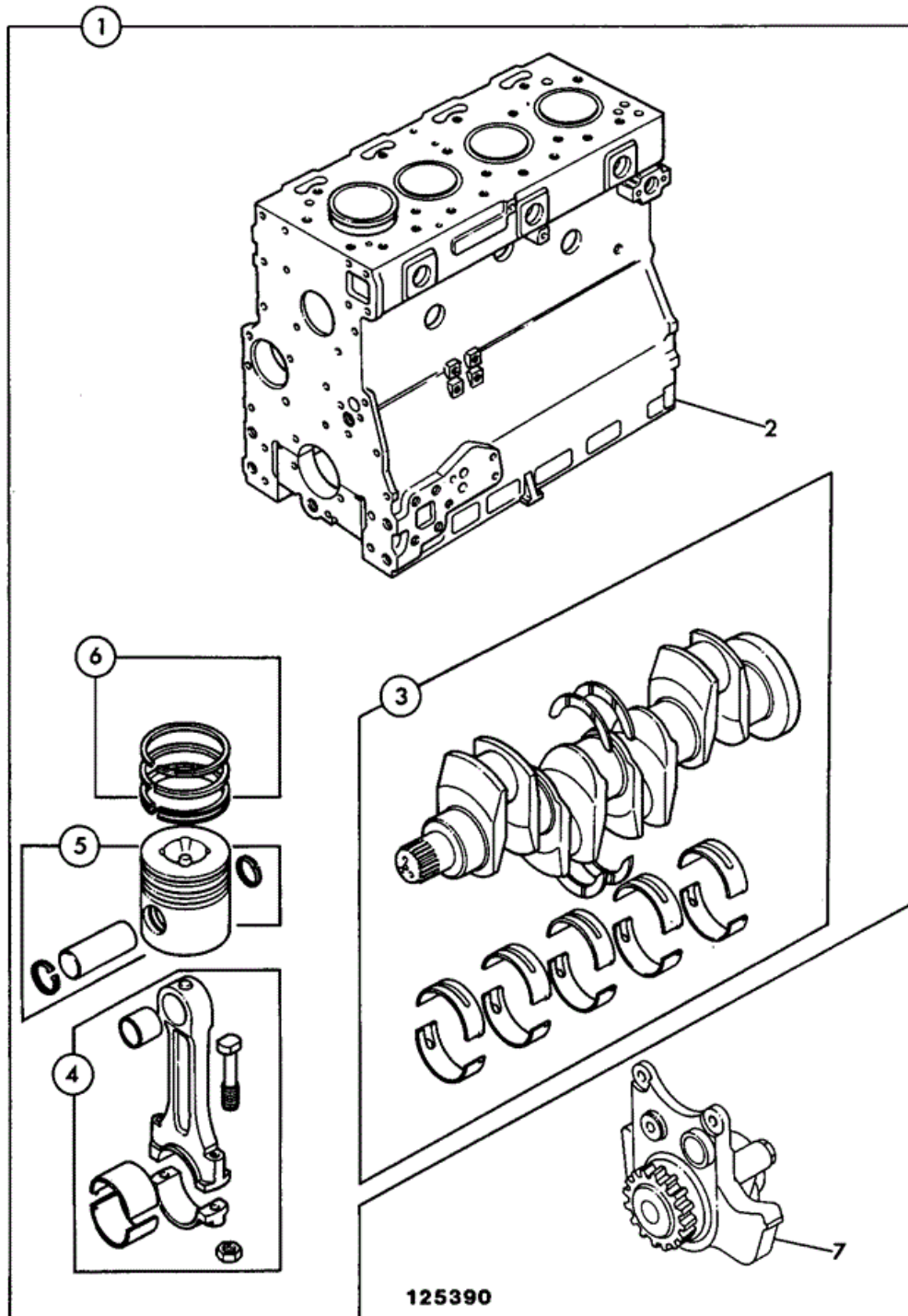




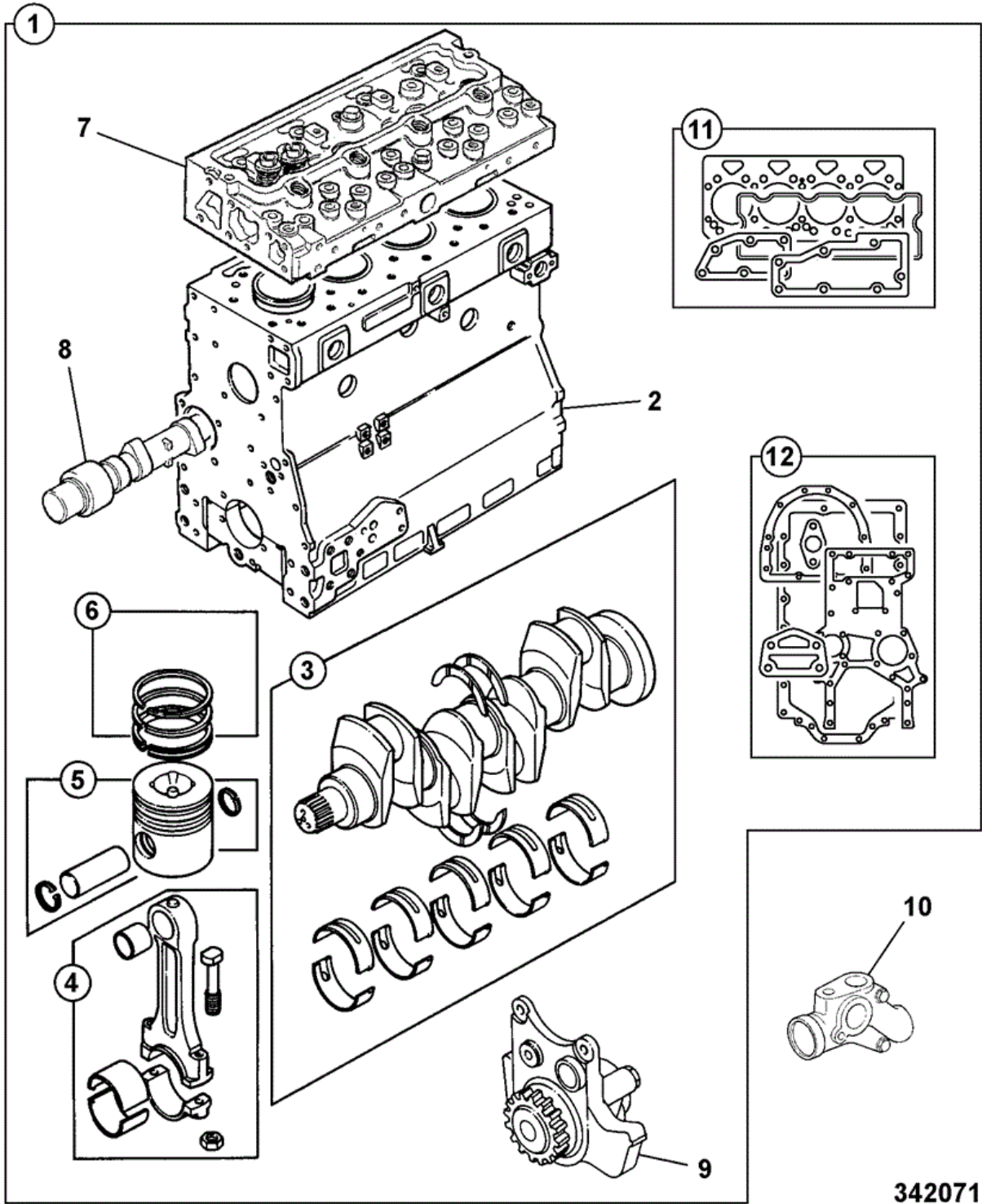
9802/4510 P1-2-1 ENGINE, SHORT AR BUILD



Item	Part #	Change No	Description	Usage Code	QTY
1	02/201800	Superseded	Engine short nat/asp		1
1	02/202382		Engine short		1
2	****		'See Remark' <i>See frame P1-3-1, Block assembly</i>		1
3	****		'See Remark' <i>See frame P1-4-1, Crankshaft assembly</i>		1
4	****		'See Remark' <i>See frame P1-4-1, Con-rod assembly</i>		4
5	****		'See Remark' <i>See frame P1-4-1, Piston assembly</i>		4
6	****		'See Remark' <i>See frame P1-4-1, Piston ring kit</i>		4
7	****		'See Remark' <i>See frame P5-2-1, Oil pump</i>		1



9802/4510 P1-2-2 ENGINE, LONG AR BUILD 75 BHP



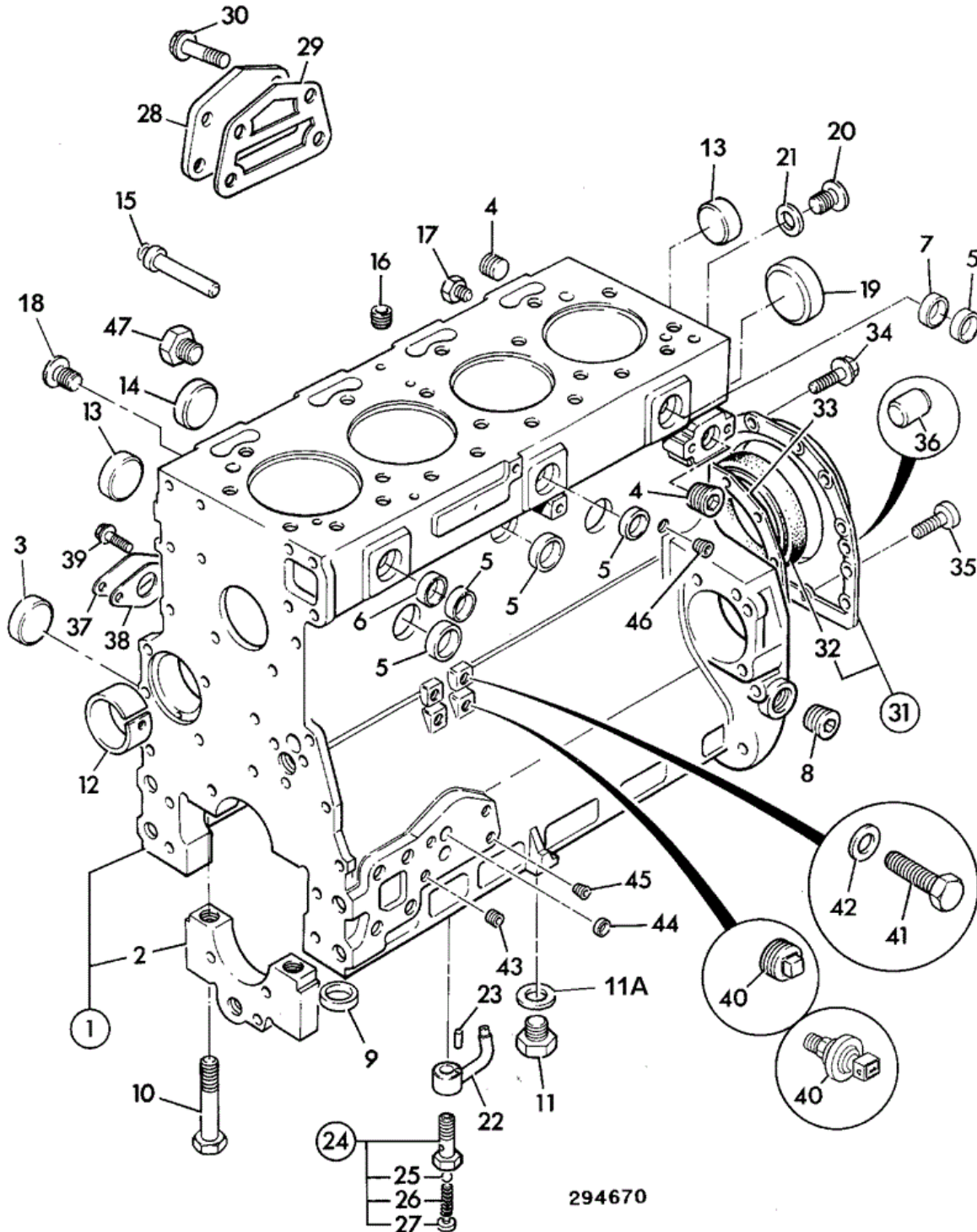
342071

Item	Part #	Change No	Description	Usage Code	QTY
1	02/202541		Motor long		1
2	****		'See Remark'		1

			<i>See frame P1-3-1, Block Assembly</i>		
3	****		'See Remark' <i>See frame P1-4-1, Crankshaft assembly</i>		1
4	****		'See Remark' <i>See frame P1-4-1, Con-rod assembly</i>		4
5	****		'See Remark' <i>See frame P1-4-1, Piston assembly</i>		4
6	****		'See Remark' <i>See frame P1-4-1, Piston ring kit</i>		4
7	****		'See Remark' <i>See frame P2-1-1, Cylinder head</i>		1
8	****		'See Remark' <i>See frame P1-6-1, Timing case</i>		1
9	****		'See Remark' <i>See frame P5-2-1, Oil pump</i>		1
10	****		'See Remark' <i>See frame P5-2-1 Oil relief valve</i>		1
11	****		'See Remark' <i>See frame P8-1-1, Gasket set top</i>		1
12	****		'See Remark' <i>See frame P8-2-1, Gasket set bottom</i>		1



9802/4510 P1-3-1 BLOCK ASSEMBLY AR BUILD

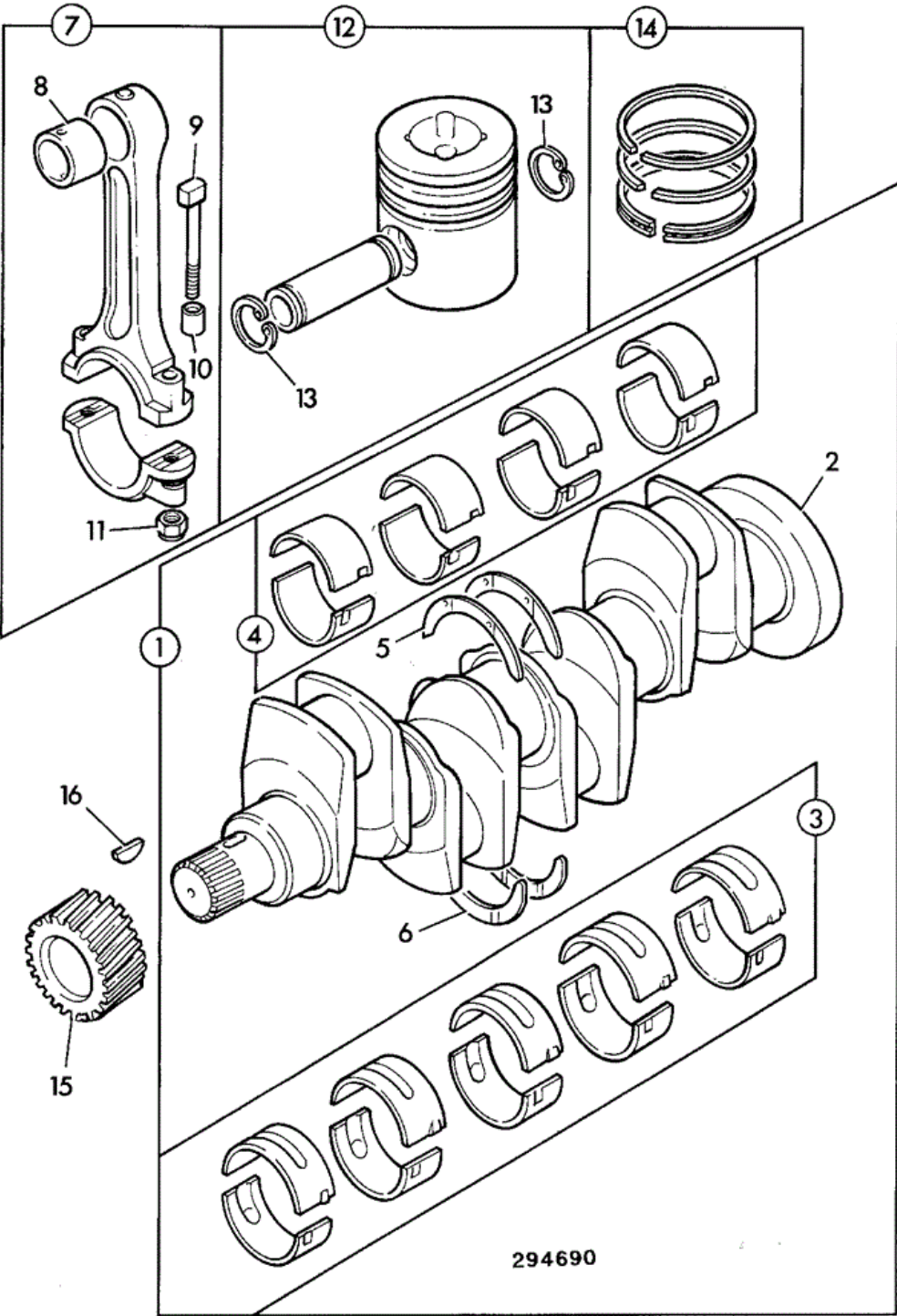


Item	Part #	Change No	Description	Usage Code	QTY
1	02/201801		Block cylinder assembly		1
2	****		None serviced part		1

			<i>Block</i>		
3	****		None serviced part <i>Bearing cap</i>		5
4	:02/100134		Plug		2
5	:02/100396		Plug core D=32mm		5
6	:02/201802		Plug		1
7	****		'See Remark' <i>Not fitted or required</i>		0
8	:02/100134		Plug		1
9	:02/100101		Thimble		10
10	:02/100102		Bolt		10
11	:02/201803		Plug		3
12	:02/192001		Bush camshaft		1
13	:02/200454		Plug core D=38mm		4
14	:02/201361		Plug core D=38mm		4
15	:02/101827		Plug		1
16	:02/100108		Plug		1
17	:02/100132		Plug drain		1
18	02/200454		Plug core D=38mm		2
19	:02/201362		Plug core D=50mm		1
20	:02/200827		Plug		1
21	:02/200828		Washer		1
22	:02/201734		Jet piston cooling		1
23	:02/201731		Pin roll		1
24	::02/101898		Valve		1
25	::02/200099		Ball		1
26	::02/200098		Spring		1
27	::02/200097		Retainer		1
28	:02/200826		Plate		1
29	:02/200484		Gasket		1
30	:02/291042		Bolt		4
31	:02/200958		Housing rear seal		1
32	:02/101436		Seal rear oil		1
33	02/201092		Gasket rear seal housing		1
34	826/00869		Screw flange head		12
35	02/291185		Capscrew		2
36	02/100308		Dowel		2
37	02/200004		Plate		1
38	02/200475		Gasket		1
39	02/291031		Bolt		2
40	701/41500		Switch oil pressure		1
41	1315/0402Z		Setscrew		1
42	823/00273		Washer		1
43	02/201364		Plug parallel threaded		2
44	02/201363		Plug core D=14mm		1
45	02/100409		Plug taper threaded		1
46	02/100134		Plug		1
47	02/100132		Plug drain		1



9802/4510 P1-4-1 CRANKSHAFT, BEARINGS PISTONS & CON-RODS AR BUILD



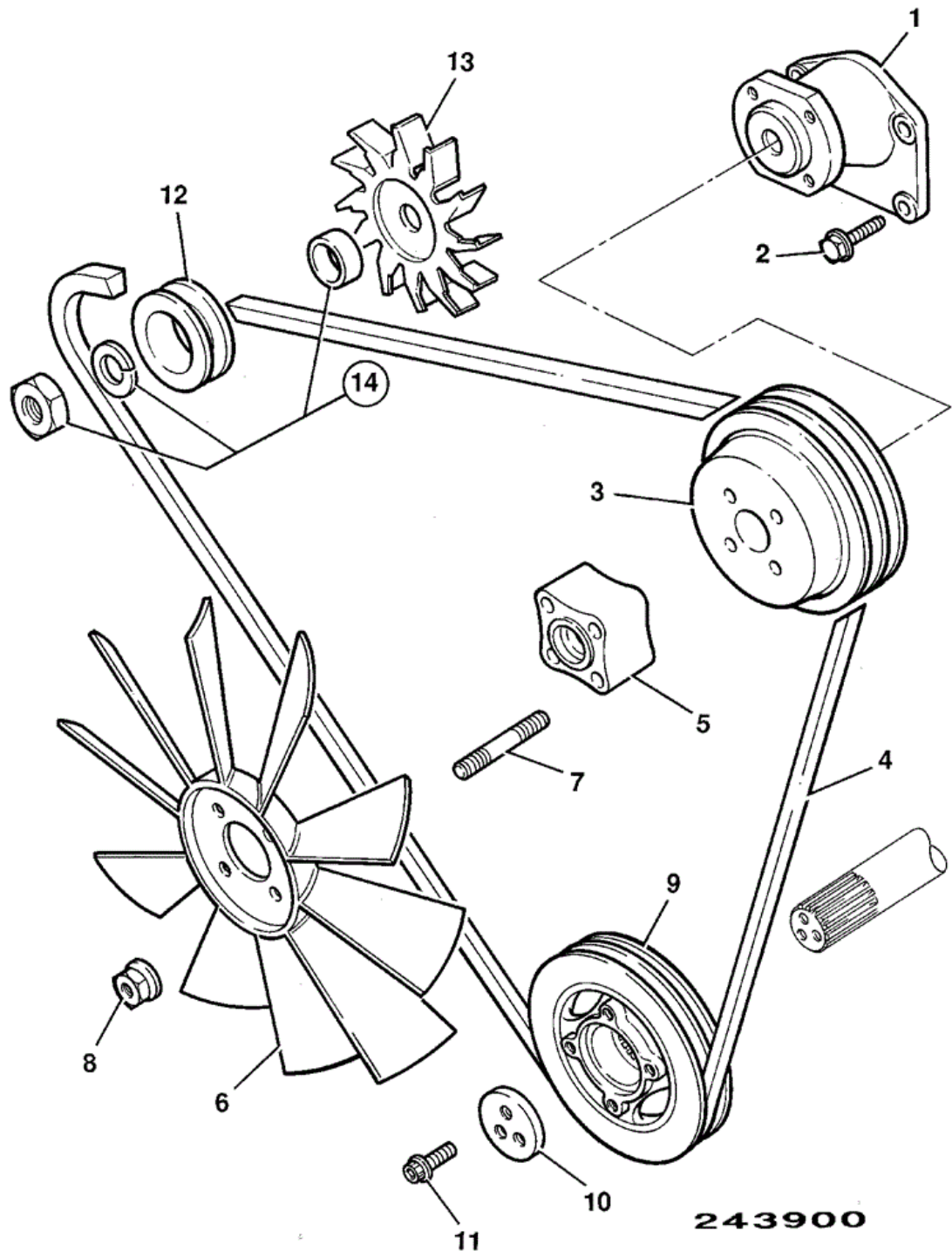
Item	Part #	Change No	Description	Usage Code	QTY
1	02/200915		Crankshaft assembly		1

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	:02/192085		Kit-bearing 4 Pairs Standard		1
4	02/192086		Kit-bearing 4 Pairs Undersize - .010inch		1
4	02/192087		Kit-bearing 4 Pairs Undersize - 0.20inch		1
4	02/192088		Kit-bearing 4 Pairs Undersize - 0.30inch		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	02/201972		Rod connecting grade 'H' <i>See Note 1</i>		0
7	02/201973		Rod connecting grade 'J' <i>See Note 1</i>		0
7	02/201974		Rod connecting grade 'K' <i>See Note 1</i>		0
7	02/201975		Rod connecting grade 'L' <i>See Note 1</i>		0
8	:02/201807		Bush		1
9	:02/291072		Bolt		2
10	:02/201808		Thimble		2
11	:02/100128		Nut		2
12	02/201805		Piston assembly		4
12A	02/201790		Piston assembly oversize - +0.5mm		0
12B	02/201792		Piston assembly oversize - +1.00mm		0
13	:02/201151		Circlip		2
14	02/201804		Kit-piston ring		4
14A	02/201791		Kit-piston ring oversize - +0.5mm		0
14B	02/201793		Kit-piston ring oversize - +1.00mm		0
15	02/290001		Gear		1
16	02/100038		Key		2

Note 1: TO ENSURE THE CORRECT GRADE IS FITTED, REFER TO THE SERVICE WORKSHOP MANUAL.



9802/4510 P1-5-1 FANS, PULLEYS & FAN BELT AR BUILDS



Item	Part #	Change No	Description	Usage Code	QTY
1	02/201357		Housing fan drive, assembly		1
2	02/291041		Bolt		4

3	02/201329		Pulley fan twin groove, 205mm		1
4	02/200738		Belt fan, pair		1
5	02/100956		Spacer fan 38mm		1
6	247/00309		Fan cooling		1
7	02/291203		Stud		4
8	1370/0203Z		Nut Nut M8		4
9	02/201121		Pulley crankshaft single groove		1
10	02/200017		Block Thrust		1
11	02/100579		Screw		3
12	02/200212		Pulley alternator D=86mm single groove		1
13	714/10812		Fan alternator		1
14	714/20405		Kit-sundry parts		1

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