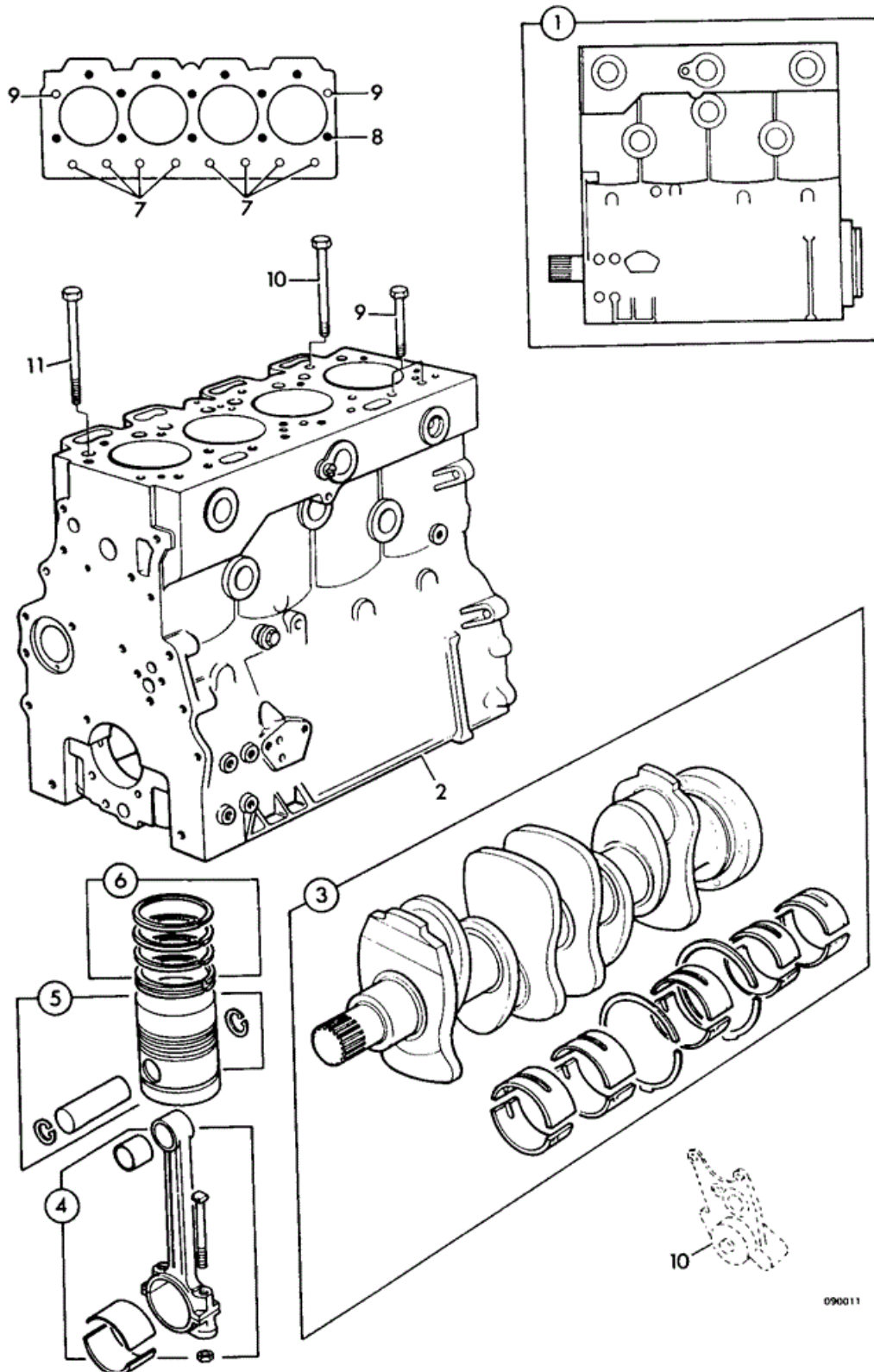




## 9802/7610 L1-2-1 ENGINE, SHORT LD BUILD



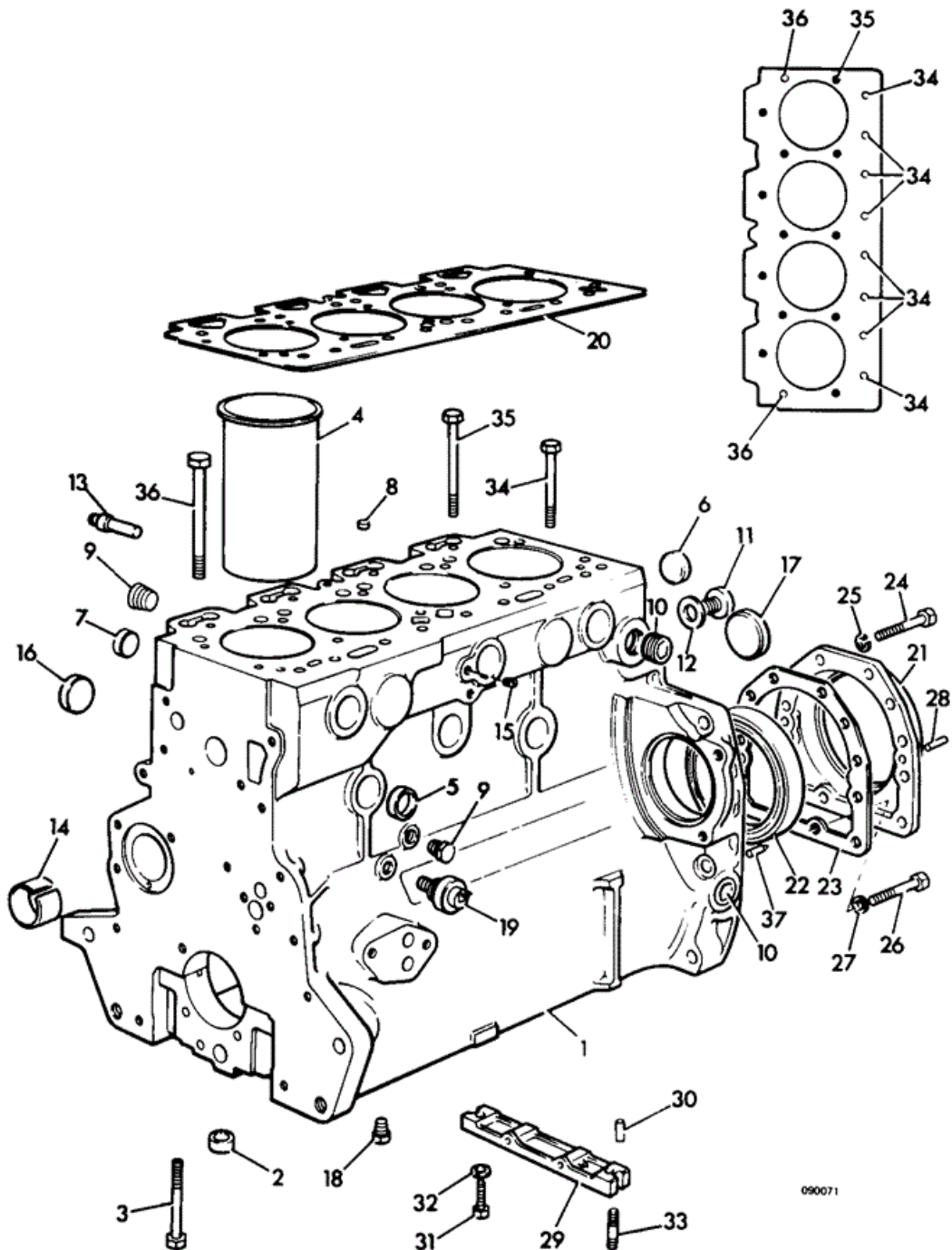
090011

| Item | Part #    | Change No | Description                                                     | Usage Code | QTY |
|------|-----------|-----------|-----------------------------------------------------------------|------------|-----|
| 1    | 02/101911 |           | Engine metric short                                             |            | 1   |
| 2    | ****      |           | 'See Remark'<br><i>See L1-3-1 Cylinder Block Assembly</i>       |            | 1   |
| 3    | ****      |           | 'See Remark'<br><i>See L1-4-1 Crankshaft Assembly</i>           |            | 1   |
| 4    | ****      |           | 'See Remark'<br><i>See L1-4-1 Connecting Rod Assembly</i>       |            | 4   |
| 5    | ****      |           | 'See Remark'<br><i>See L1-4-1 Piston Assembly</i>               |            | 4   |
| 6    | ****      |           | 'See Remark'<br><i>See L1-4-1 Piston Ring Kit</i>               |            | 4   |
| 7    | ****      |           | 'See Remark'<br><i>See L1-3-1 Bolt - Cylinder Head</i>          |            | 8   |
| 8    | ****      |           | 'See Remark'<br><i>See L1-3-1 Bolt - Cylinder Head</i>          |            | 12  |
| 9    | ****      |           | 'See Remark'<br><i>See L1-3-1 Bolt - Cylinder Head</i>          |            | 2   |
| 10   | ****      |           | 'See Remark'<br><i>See L5-1-1 Oil Pump</i><br><i>See Note 1</i> |            | 1   |

*Note 1: Not included in item 1.*

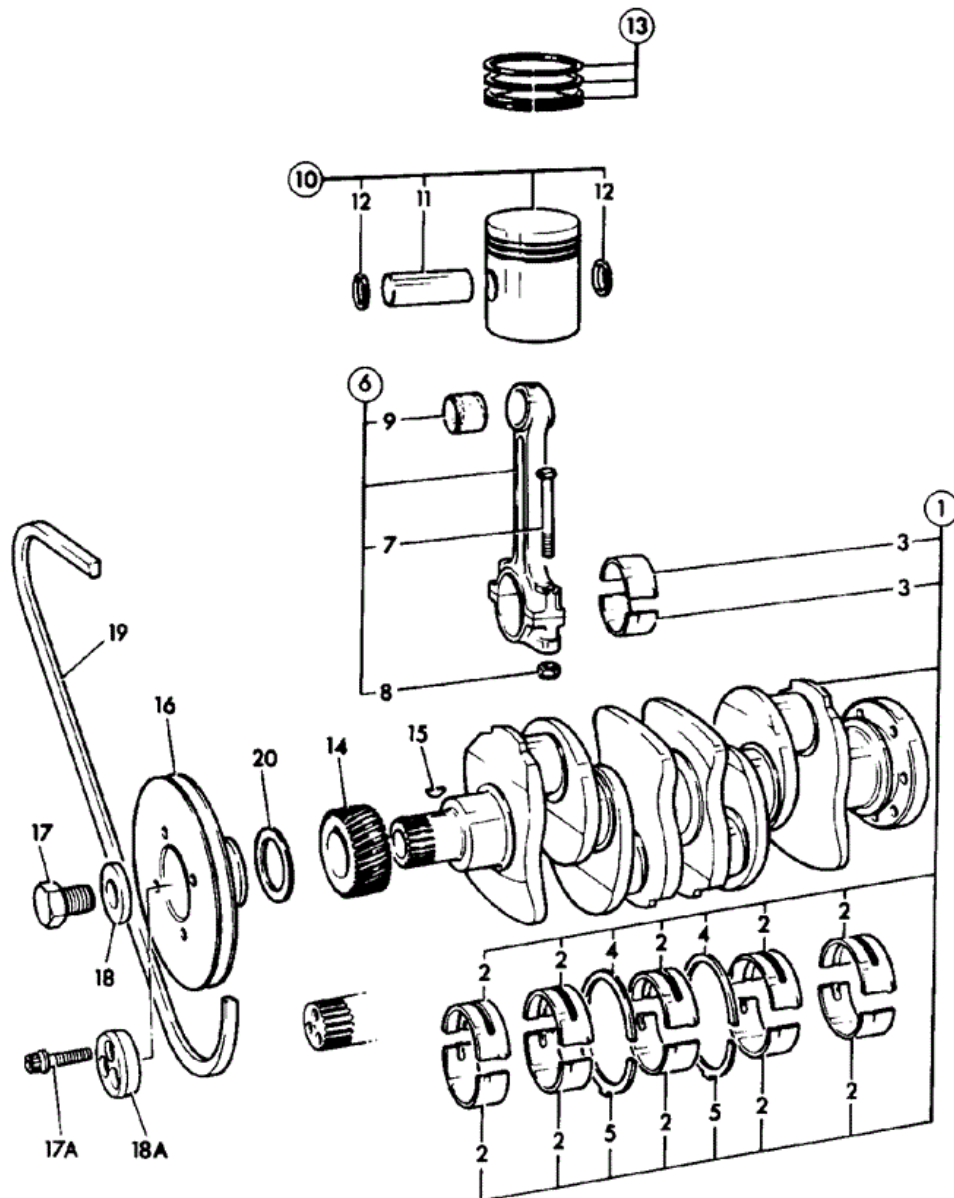


## 9802/7610 L1-3-1 BLOCK ASSEMBLY LD BUILD



| Item | Part #     | Change No | Description                      | Usage Code | QTY |
|------|------------|-----------|----------------------------------|------------|-----|
| 1    | 02/101881  |           | Block assembly, cylinder         |            | 1   |
| 2    | :02/100101 |           | Thimble                          |            | 10  |
| 3    | :02/100102 |           | Bolt                             |            | 10  |
| 4    | :02/101758 |           | Liner Press fit                  |            | 4   |
| 4    | 02/101773  |           | Liner Slip fit                   |            | 4   |
| 5    | :02/100105 |           | Plug core D=32mm                 |            | 6   |
| 6    | :02/100105 |           | Plug core D=32mm                 |            | 2   |
| 7    | :02/100106 |           | Plug core D=35mm                 |            | 4   |
| 8    | :02/100108 |           | Plug                             |            | 1   |
| 9    | :02/100132 |           | Plug drain<br><i>Water Drain</i> |            | 2   |
| 9    | :02/100335 |           | Tap drain<br><i>Alternative</i>  |            | 2   |
| 10   | :02/100134 |           | Plug                             |            | 3   |
| 11   | 02/100111  |           | Plug                             |            | 1   |
| 12   | 823/00276  |           | Washer                           |            | 1   |
| 13   | :02/101827 |           | Plug                             |            | 1   |
| 14   | :02/192001 |           | Bush camshaft                    |            | 1   |
| 15   | 02/101810  |           | Plug                             |            | 1   |
| 16   | 02/100110  |           | Plug core D=38mm                 |            | 4   |
| 17   | 02/100107  |           | Plug core D=50mm                 |            | 1   |
| 18   | 02/100133  |           | Plug                             |            | 1   |
| 19   | 701/06500  |           | Switch oil pressure              |            | 1   |
| 20   | 02/101879  |           | Gasket cylinder head             |            | 1   |
| 21   | 02/101704  |           | Housing rear seal                |            | 1   |
| 22   | 02/101436  |           | Seal rear oil                    |            | 1   |
| 23   | 02/100113  |           | Gasket rear seal housing         |            | 1   |
| 24   | 1305/0106Z |           | Bolt 5/16"UNF x 1" long          |            | 10  |
| 25   | 1410/0002Z |           | Washer (5/16" Small)             |            | 10  |
| 26   | 1381/3106  |           | Capscrew                         |            | 2   |
| 27   | 02/100307  |           | Washer                           |            | 2   |
| 28   | 02/100308  |           | Dowel                            |            | 2   |
| 29   | 02/101790  |           | Bridge piece                     |            | 1   |
| 30   | 02/100112  |           | Seal                             |            | 2   |
| 31   | 826/00759  |           | Bolt                             |            | 2   |
| 32   | 02/100309  |           | Washer                           |            | 2   |
| 33   | 02/101791  |           | Stud                             |            | 2   |
| 34   | 02/101762  |           | Bolt 103mm                       |            | 8   |
| 35   | 02/101761  |           | Bolt 119mm                       |            | 12  |
| 36   | 02/101760  |           | Bolt 140mm                       |            | 2   |
| 37   | 02/100136  |           | Pointer Timing                   |            | 1   |

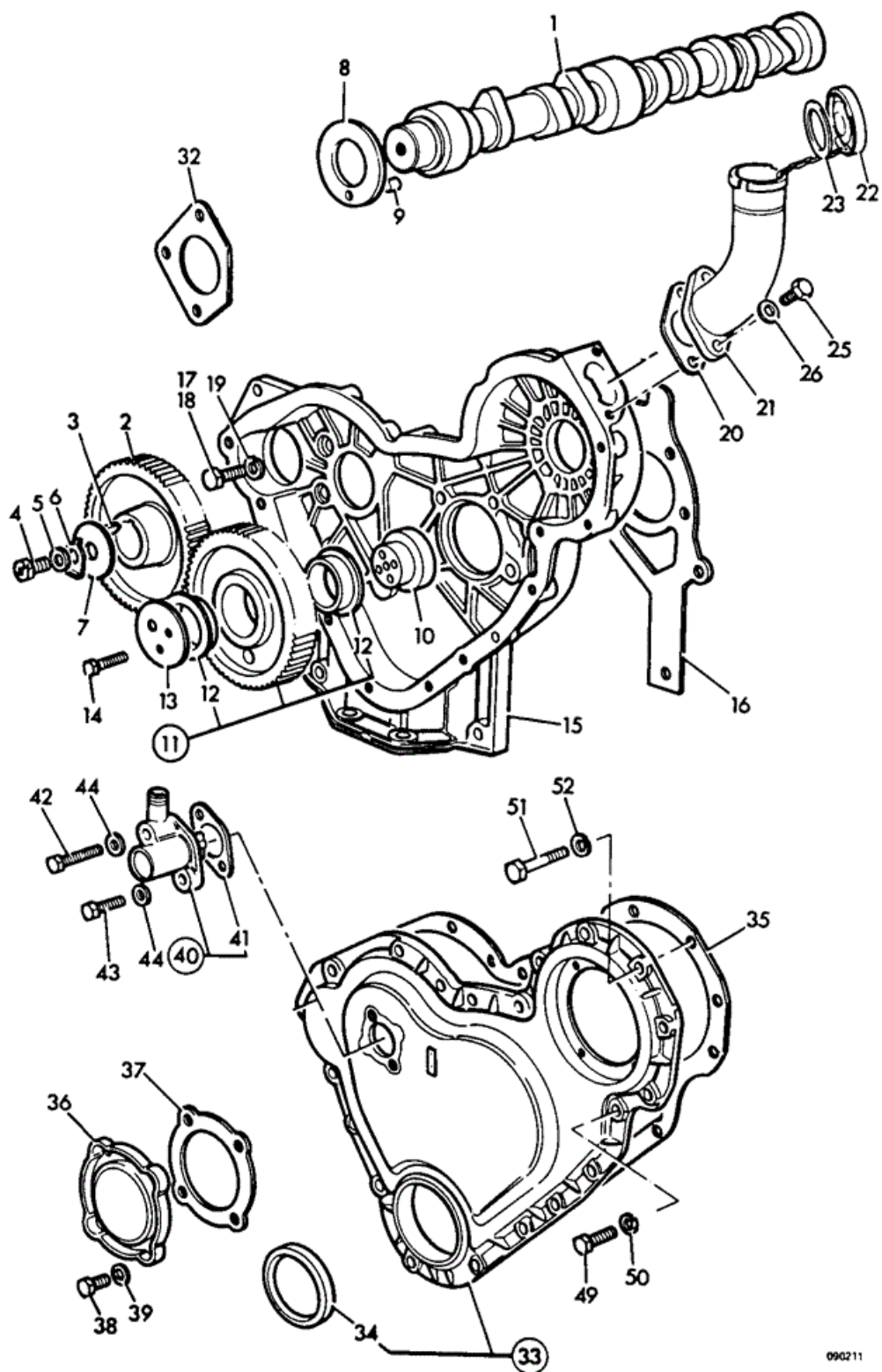
# **JCB** 9802/7610 L1-4-1 CRANKSHAFT, BEARINGS PISTONS, CON-RODS PULLEY & FAN BELT, LD BUILD



064512

| Item | Part #    | Change No | Description                                                | Usage Code | QTY |
|------|-----------|-----------|------------------------------------------------------------|------------|-----|
| 1    | 02/101825 |           | Crankshaft assembly<br><i>Includes items 17A &amp; 18A</i> | P/Ex       | 1   |

|     |            |                                          |   |
|-----|------------|------------------------------------------|---|
| 2   | :02/192002 | Kit-bearing Main Standard                | 1 |
| 2   | 02/192003  | Kit-bearing Main Undersize - .010inch    | 1 |
| 2   | 02/192004  | Kit-bearing Main Undersize - .020inch    | 1 |
| 2   | 02/192005  | Kit-bearing Main Undersize - .030inch    | 1 |
| 3   | :02/192006 | Kit-bearing big end standard             | 1 |
| 3   | 02/192007  | Kit-bearing Big end Undersize - .010inch | 1 |
| 3   | 02/192008  | Kit-bearing Big end Undersize - .020inch | 1 |
| 3   | 02/192009  | Kit-bearing Big end Undersize - .030inch | 1 |
| 4   | :02/192083 | Washer thrust top - standard             | 2 |
| 4   | 02/192011  | Washer thrust top-oversize 0.19mm        | 2 |
| 5   | :02/192084 | Washer thrust bottom - standard          | 2 |
| 5   | 02/192013  | Washer thrust btm-oversize 0.19mm        | 2 |
| 6   | 02/101440  | Rod assembly Connecting                  | 4 |
| 7   | :02/100127 | Bolt                                     | 2 |
| 8   | :02/100128 | Nut                                      | 2 |
| 9   | :02/192015 | Bush small end                           | 1 |
| 10  | 02/100007  | Piston assembly 5 ring                   | 4 |
| 10  | 02/100008  | Piston assembly Oversize - .030inch      | 0 |
| 11  | :N.S.P.    | None serviced part<br><i>Gudgeon pin</i> | 1 |
| 12  | :2203/1040 | Circlip                                  | 2 |
| 13  | 02/101438  | Kit-piston ring                          | 4 |
| 13  | 02/100010  | Kit-piston ring oversize - .030 inch     | 0 |
| 13  | 02/100011  | Kit-piston ring service                  | 0 |
| 14  | 02/190001  | Gear crankshaft                          | 1 |
| 15  | 02/100038  | Key                                      | 1 |
| 16  | 02/101736  | Pulley Crankshaft                        | 1 |
| 17A | 02/101813  | Capscrew                                 | 3 |
| 18A | 02/101812  | Block Thrust                             | 1 |
| 19  | 990/47900  | Belt Drive - pair                        | 1 |



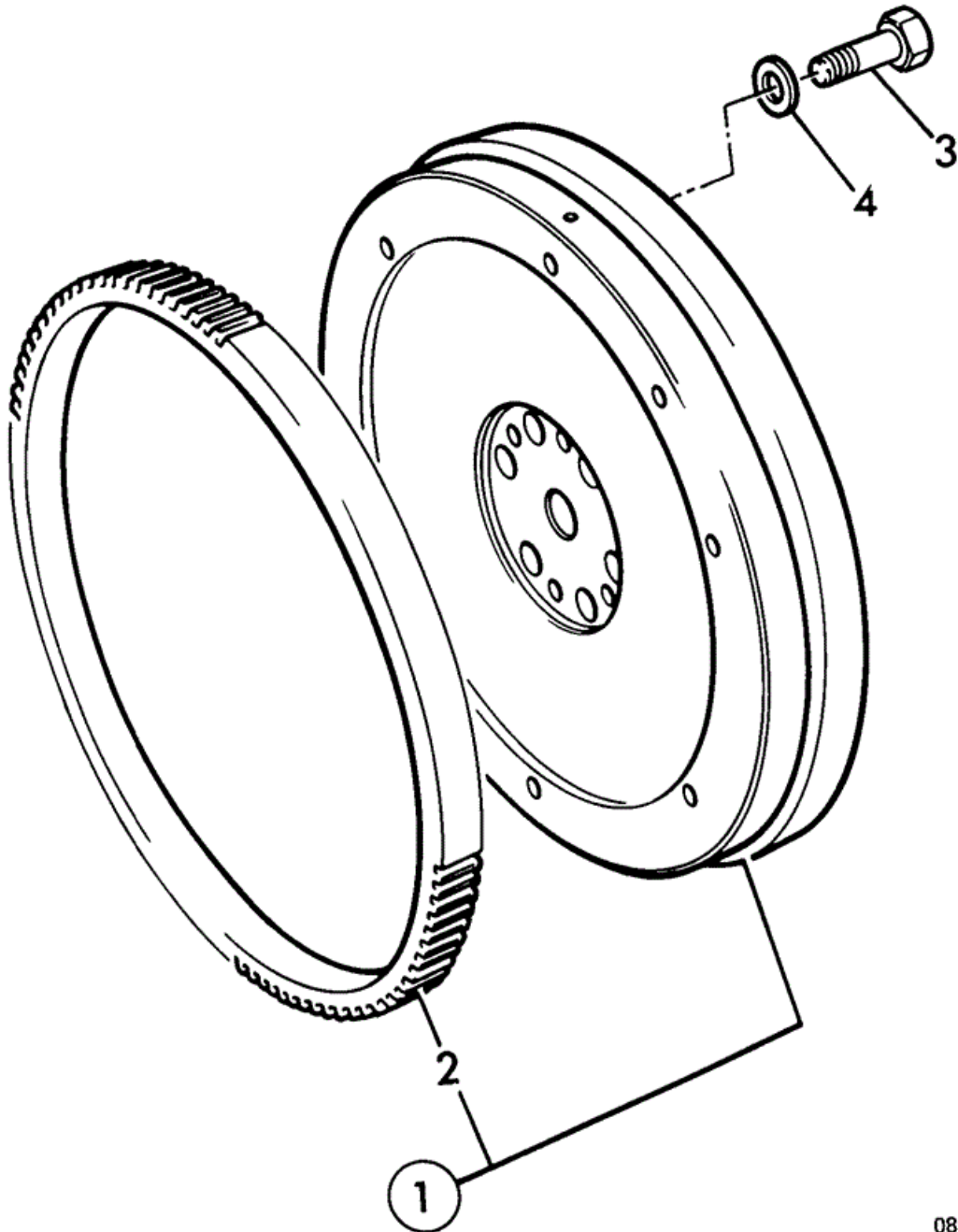
090211

| Item | Part #    | Change No | Description   | Usage Code | QTY |
|------|-----------|-----------|---------------|------------|-----|
| 1    | 02/101890 |           | Camshaft      |            | 1   |
| 2    | 02/190032 |           | Gear camshaft |            | 1   |
| 3    | 02/100038 |           | Key           |            | 1   |
| 4    | 02/100312 |           | Bolt          |            | 1   |
| 5    | 02/100306 |           | Washer        |            | 1   |
|      |           |           |               |            |     |

|    |            |  |                                                |  |    |
|----|------------|--|------------------------------------------------|--|----|
| 6  | 02/100305  |  | Washer tab                                     |  | 1  |
| 7  | 02/100313  |  | Plate thrust                                   |  | 1  |
| 8  | 02/192046  |  | Washer thrust                                  |  | 1  |
| 9  | 2102/0604  |  | Dowel                                          |  | 1  |
| 10 | 02/100041  |  | Hub                                            |  | 1  |
| 11 | 02/190003  |  | Gear Idler                                     |  | 1  |
| 12 | :02/192016 |  | Bush                                           |  | 2  |
| 13 | 02/100042  |  | Plate                                          |  | 1  |
| 14 | 02/101905  |  | Screw hexagon head                             |  | 3  |
| 15 | 02/100002  |  | Casing timing                                  |  | 1  |
| 16 | 02/101891  |  | Gasket timing case                             |  | 1  |
| 17 | 1305/0105Z |  | Bolt                                           |  | 8  |
| 18 | 1305/0106Z |  | Bolt 5/16"UNF x 1" long                        |  | 1  |
| 19 | 823/00268  |  | Washer spring                                  |  | 9  |
| 20 | 02/100140  |  | Gasket                                         |  | 1  |
| 21 | 02/101483  |  | Tube oil filler assembly                       |  | 1  |
| 22 | :02/101484 |  | Cap oil filler                                 |  | 1  |
| 23 | :02/100421 |  | Seal                                           |  | 1  |
| 25 | 1305/0104Z |  | Setscrew (5/16" UNF x 3/4")                    |  | 2  |
| 26 | 823/00268  |  | Washer spring                                  |  | 2  |
| 32 | 02/100143  |  | Gasket                                         |  | 1  |
| 33 | 02/100944  |  | Cover timing                                   |  | 1  |
| 34 | 02/101435  |  | Seal front oil                                 |  | 1  |
| 35 | 02/100006  |  | Gasket timing cover                            |  | 1  |
| 36 | 02/101796  |  | Cover Inspection                               |  | 1  |
| 37 | 02/100145  |  | Gasket                                         |  | 1  |
| 38 | 1305/0103Z |  | Screw                                          |  | 4  |
| 39 | 823/00268  |  | Washer spring                                  |  | 4  |
| 40 | 02/300113  |  | Drive Tachometer                               |  | 1  |
| 41 | 02/100146  |  | Gasket                                         |  | 1  |
| 42 | 1305/3010Z |  | Bolt                                           |  | 1  |
| 43 | 1305/0004Z |  | Bolt                                           |  | 1  |
| 44 | 823/00267  |  | Washer                                         |  | 2  |
| 49 | 1305/0105Z |  | Bolt<br><i>7/8"Long</i>                        |  | 14 |
| 50 | 823/00268  |  | Washer spring                                  |  | 14 |
| 51 | 1305/3118Z |  | Bolt 5/16"UNF x 2.5" long<br><i>2.1/2"Long</i> |  | 4  |
| 52 | 823/00268  |  | Washer spring                                  |  | 4  |



## 9802/7610 L1-6-1 FLYWHEEL & HOUSING LD BUILD

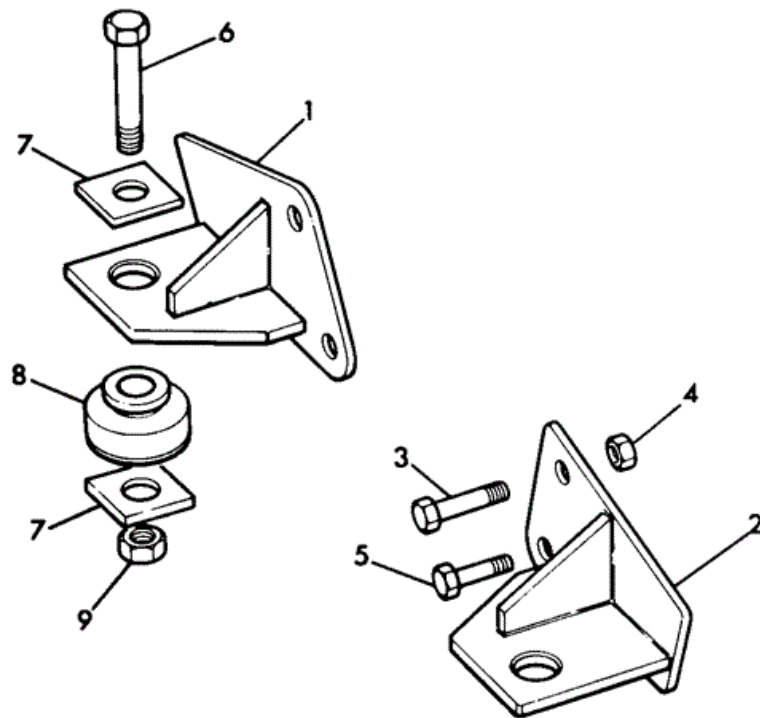


089940

| Item | Part #     | Change No | Description                                                     | Usage Code | QTY |
|------|------------|-----------|-----------------------------------------------------------------|------------|-----|
| A    | ****       |           | 'See Remark'<br><i>Flywheel housing See F5-6-1 &amp; F5-2-1</i> |            | 0   |
| B    | ****       |           | 'See Remark'<br><i>Torque convertor See F5-6-1</i>              |            | 0   |
| C    | ****       |           | 'See Remark'<br><i>Drive plate kit See F5-6-1</i>               |            | 0   |
| 1    | 02/101737  |           | Flywheel assembly                                               |            | 1   |
| 2    | :02/100078 |           | Gear starter ring                                               |            | 1   |
| 3    | 1305/0407  |           | Bolt                                                            |            | 6   |
| 4    | 02/100614  |           | Washer                                                          |            | 6   |



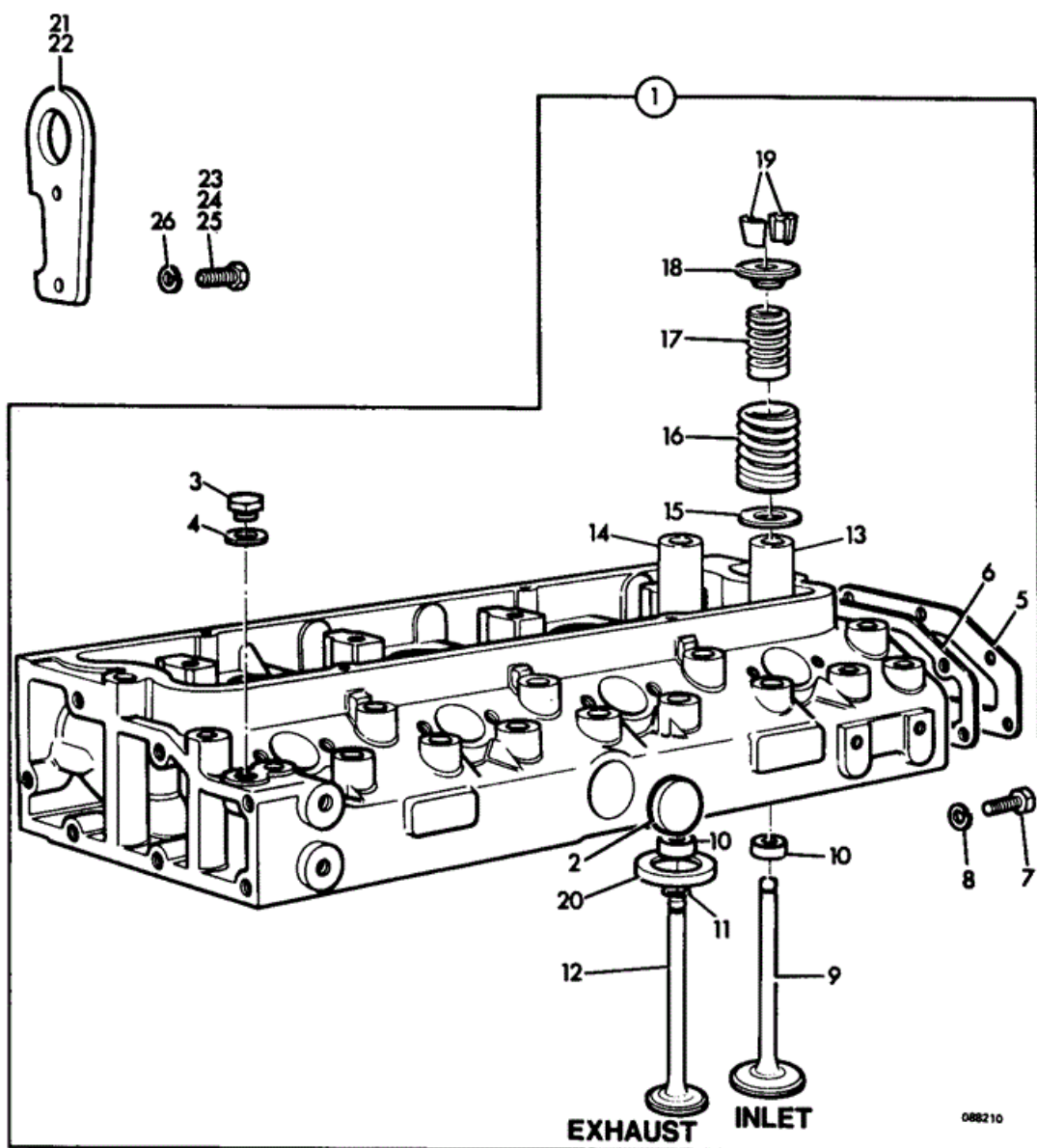
## 9802/7610 L1-7-1 ENGINE MOUNTINGS



| Item | Part #     | Change No | Description                                             | Usage Code | QTY |
|------|------------|-----------|---------------------------------------------------------|------------|-----|
| 1    | 190/74600  |           | Bracket engine mounting<br><i>Front L.H.</i>            |            | 1   |
| 2    | 190/25500  |           | Bracket engine mounting right hand<br><i>Front R.H.</i> |            | 1   |
| 3    | 1315/3716  |           | Bolt                                                    |            | 2   |
| 4    | 1370/0603Z |           | Nut lock M16                                            |            | 2   |
| 5    | 1315/0710Z |           | Setscrew                                                |            | 2   |
| 6    | 1305/3424  |           | Bolt                                                    |            | 2   |
| 7    | 111/15709  |           | Washer                                                  |            | 4   |
| 8    | 111/30101  |           | Mounting metalastik                                     |            | 2   |
| 9    | 1340/0403Z |           | Nut lock                                                |            | 2   |



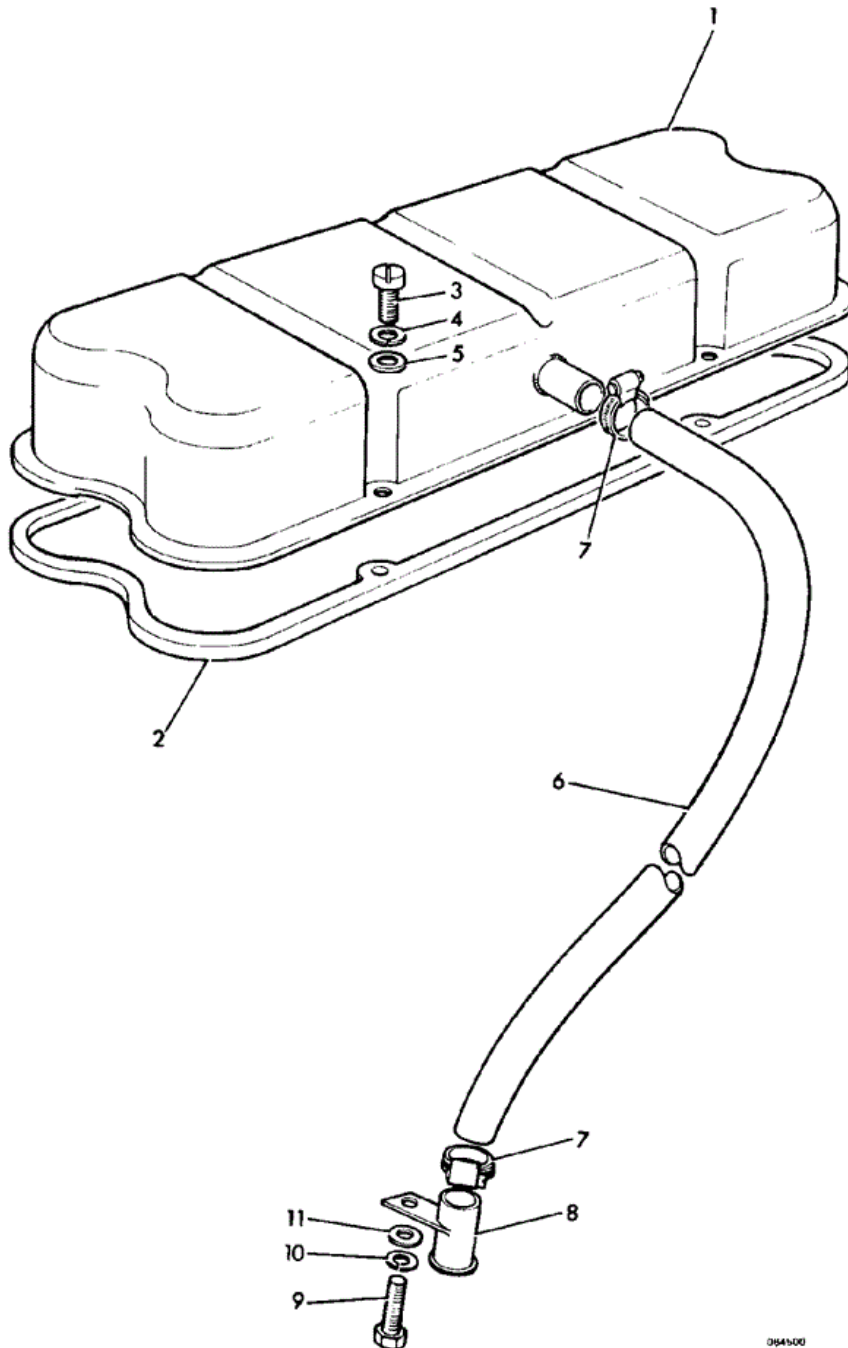
## 9802/7610 L2-1-1 CYLINDER HEAD LD BUILD



| Item | Part #      | Change No  | Description                                               | Usage Code | QTY |
|------|-------------|------------|-----------------------------------------------------------|------------|-----|
| 1    | 02/101882   | Superseded | Head assembly, cylinder                                   |            | 1   |
| 1    | 02/101924   |            | Head assembly, cylinder                                   |            | 1   |
| 2    | :02/100105  | Superseded | Plug core D=32mm                                          |            | 1   |
| 2    | :02/100396  |            | Plug core D=32mm                                          |            | 1   |
| 3    | :02/100148  |            | Plug                                                      |            | 1   |
| 4    | :823/00361  |            | Washer                                                    |            | 1   |
| 5    | :02/101784  |            | Cover                                                     |            | 1   |
| 6    | :02/101785  |            | Gasket                                                    |            | 1   |
| 7    | :1305/0104Z |            | Setscrew (5/16" UNF x 3/4")                               |            | 4   |
| 7    | :1305/0204Z |            | Bolt 3/8"                                                 |            | 2   |
| 8    | :823/00268  |            | Washer spring                                             |            | 4   |
| 8    | :823/00269  |            | Washer spring                                             |            | 2   |
| 9    | :02/100022  |            | Valve Inlet Standard                                      |            | 4   |
| 9    | 02/100212   |            | Valve Inlet Standard<br><i>Used only with 02/101924</i>   |            | 4   |
| 10   | :02/100668  |            | Seal valve                                                |            | 8   |
| 11   | :02/100026  |            | O Ring                                                    |            | 4   |
| 12   | :02/100023  |            | Valve Exhaust Standard                                    |            | 4   |
| 12   | 02/101607   |            | Valve exhaust standard<br><i>Used only with 02/101924</i> |            | 4   |
| 13   | :02/101883  |            | Guide inlet valve                                         |            | 4   |
| 14   | :02/101884  |            | Guide exhaust valve                                       |            | 4   |
| 15   | :02/100638  |            | Seat spring                                               |            | 8   |
| 16   | :02/100019  |            | Spring valve outer                                        |            | 8   |
| 17   | :02/100018  |            | Spring valve, inner                                       |            | 8   |
| 18   | :02/100021  |            | Holder Collet                                             |            | 8   |
| 19   | :02/100024  |            | Collet<br><i>Serviced in pairs</i>                        |            | 8   |
| 20   | 02/100621   |            | Insert valve seat exhaust                                 |            | 0   |
| 21   | 02/100157   |            | Plate lifting<br><i>Rear</i>                              |            | 1   |
| 22   | 02/100157   |            | Plate lifting<br><i>Front</i>                             |            | 1   |
| 23   | 1305/0205Z  |            | Bolt<br><i>Rear plate bottom</i>                          |            | 1   |
| 24   | 1305/0206Z  |            | Setscrew (3/8" UNF x1")<br><i>Rear plate top</i>          |            | 1   |
| 25   | 1305/0210Z  |            | Bolt<br><i>Front plate</i>                                |            | 2   |
| 26   | 823/00269   |            | Washer spring                                             |            | 4   |



## 9802/7610 L2-2-1 ROCKER COVER LD BUILD



094500

| Item | Part #     | Change No | Description          | Usage Code | QTY |
|------|------------|-----------|----------------------|------------|-----|
| 1    | 02/100035  |           | Cover rocker         |            | 1   |
| 2    | 02/101749  |           | Gasket rocker cover  |            | 1   |
| 3    | 1305/0003Z |           | Screw 1/4 UNF x .625 |            | 4   |

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