

# CATERPILLAR 990

7HK / SEBP2219

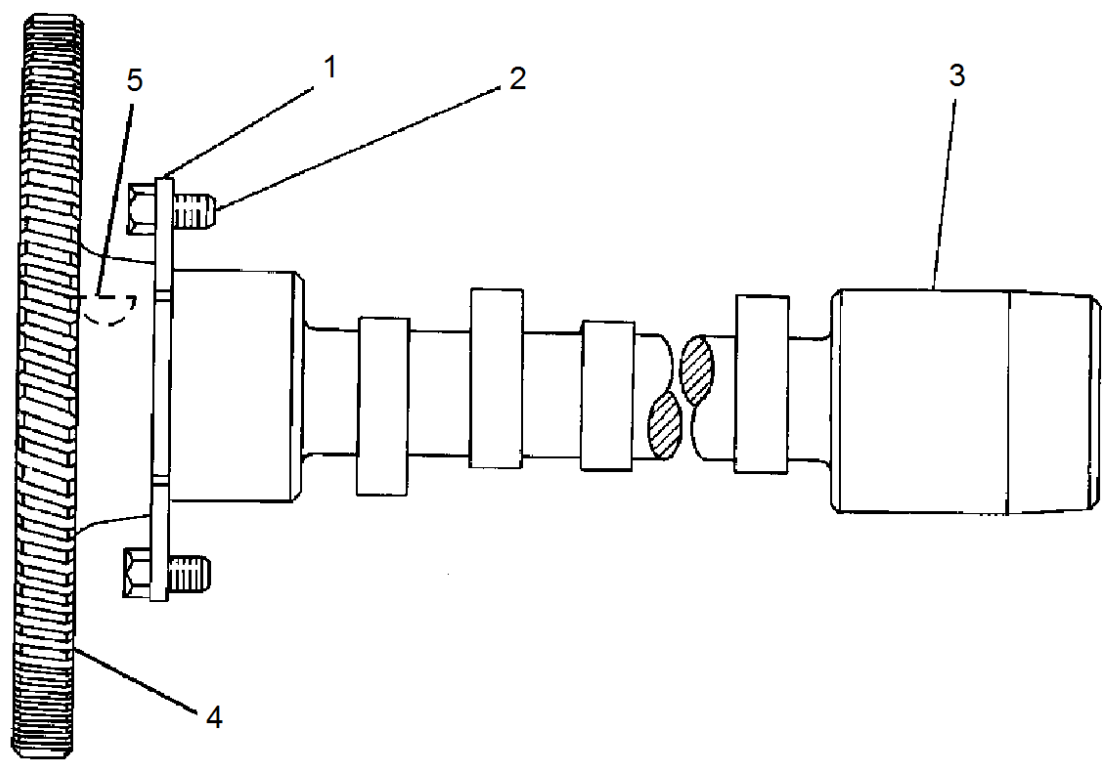
## Contents

| Section                      | Page |
|------------------------------|------|
| Basic engine                 | 2    |
| Lubrication system           |      |
| Cooling system               |      |
| Air inlet and exhaust        |      |
| Fuel system                  |      |
| Basic engine                 |      |
| Basic engine                 |      |
| Electrical and electronics   |      |
| Power train                  |      |
| Hydraulic system             |      |
| Power train                  |      |
| Hydraulic system             |      |
| Hydraulic system             |      |
| Labels, kits and diagnostics |      |
| Air inlet and exhaust        |      |
| Catalog items                |      |
| Basic engine                 |      |

4N-0965 CAMSHAFT GP

4N-0965 CAMSHAFT GP S/N 73W14650-UP PART OF 137-4983, 4P-4990 ENGINE AR

Drawing 1 of 1



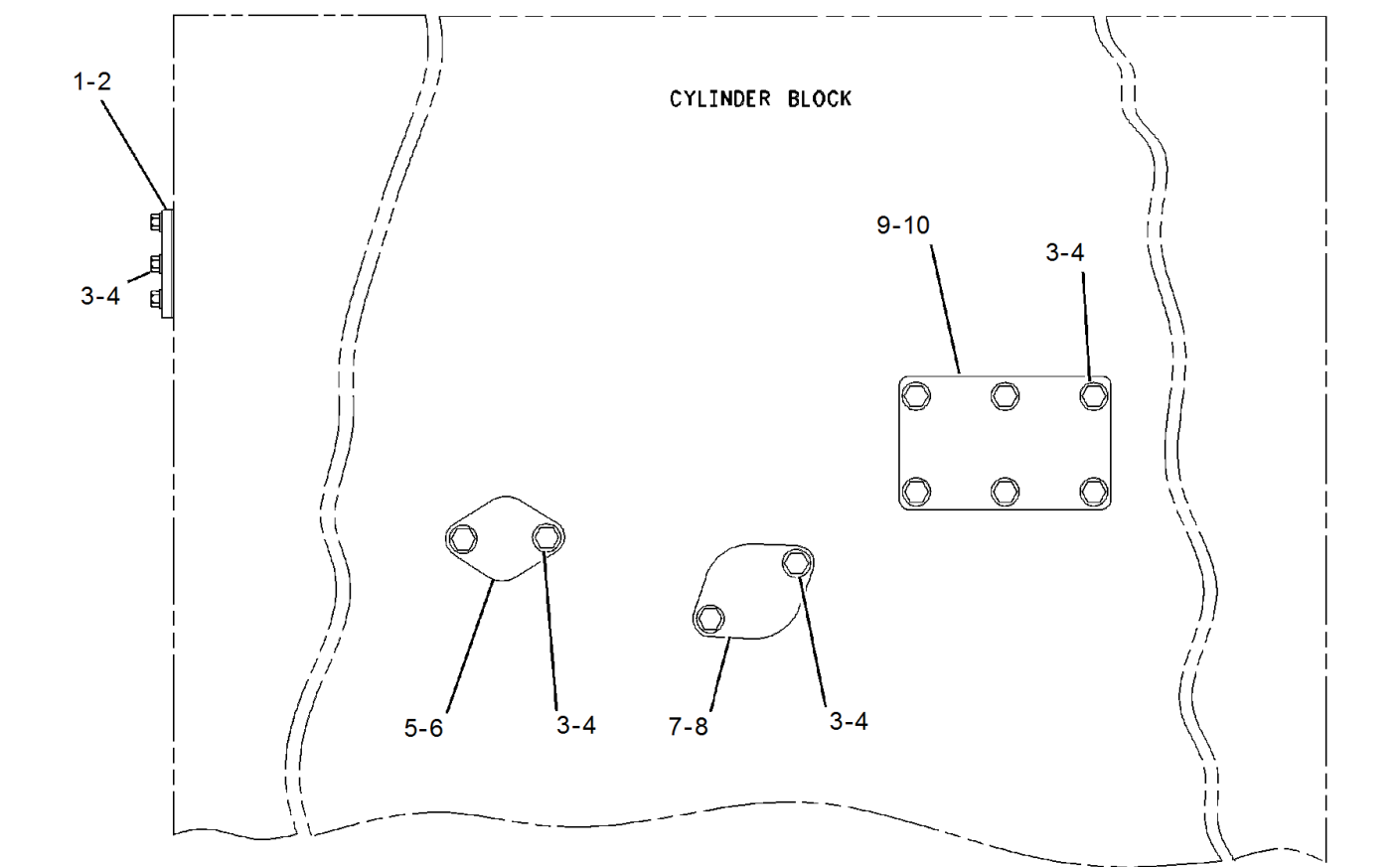
| Ref. | Part number | Description           | Qty | Code | Group page |
|------|-------------|-----------------------|-----|------|------------|
| 1    | 4N-0342     | PLATE                 | 1   |      |            |
| 2    | 0S-0509     | BOLT (3/8-16X0.75-IN) | 2   |      |            |
| 3    | 2W-5289     | CAMSHAFT AS           | 1   |      |            |
| 4    | 101-3374    | GEAR (86-TEETH)       | 1   |      |            |
| 5    | 1B-8705     | KEY-WOODRUFF          | 1   |      |            |

CAT codes: R.

4N-6866 COVER GP-CYLINDER BLOCK

4N-6866 COVER GP-CYLINDER BLOCK S/N 73W14650-UP PART OF 137-4983, 4P-4990 ENGINE AR

Drawing 1 of 1

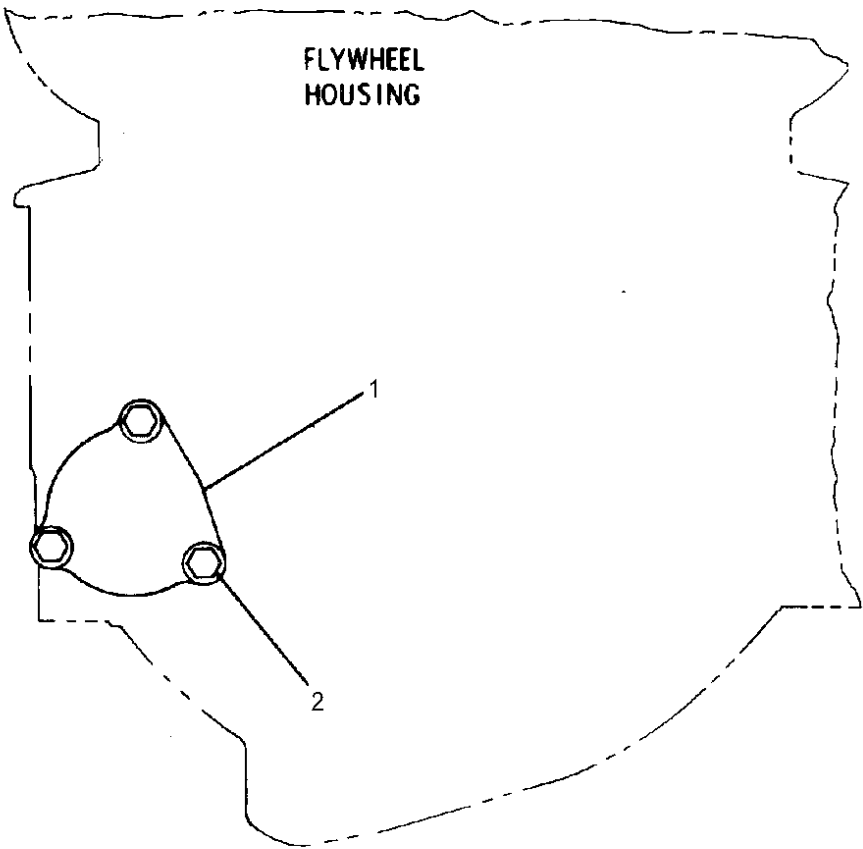


| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 4N-1683     | COVER                              | 1   |      |            |
| 2    | 239-5571    | SEAL-INTEGRAL                      | 1   |      |            |
| 3    | 0S-1594     | BOLT (3/8-16X1-IN)                 | 12  |      |            |
| 4    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 12  |      |            |
| 5    | 2P-2772     | COVER                              | 1   |      |            |
| 6    | 234-8937    | SEAL-INTEGRAL                      | 1   |      |            |
| 7    | 4N-0794     | COVER                              | 1   |      |            |
| 8    | 239-5572    | SEAL-INTEGRAL                      | 1   |      |            |
| 9    | 4N-1682     | COVER                              | 1   |      |            |
| 10   | 4N-0864     | GASKET                             | 1   |      |            |

4N-6876 COVER GP-FLYWHEEL HOUSING

4N-6876 COVER GP-FLYWHEEL HOUSING S/N 73W14650-UP PART OF 137-4983, 4P-4990 ENGINE AR

Drawing 1 of 1

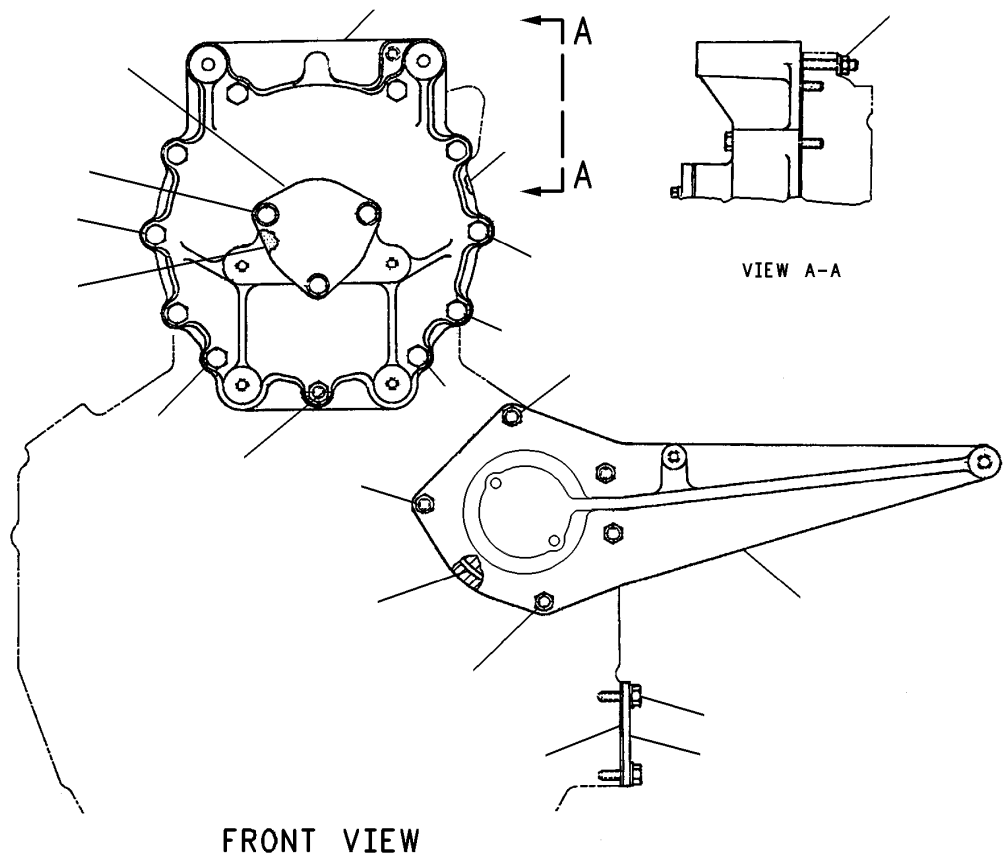


| Ref. | Part number | Description                    | Qty | Code | Group page |
|------|-------------|--------------------------------|-----|------|------------|
| 1    | 4N-1114     | COVER                          | 1   |      |            |
|      | 9Y-6089     | GASKET                         | 1   |      |            |
| 2    | 0S-1566     | BOLT (5/8-11X1.5-IN)           | 3   |      |            |
|      | 5P-8247     | WASHER-HARD (17X32X3.5-MM THK) | 3   |      |            |

6I-4660 COVER GP-FRONT HOUSING

6I-4660 COVER GP-FRONT HOUSING S/N 73W14650-UP PART OF 137-4983, 4P-4990 ENGINE AR

Drawing 1 of 1



| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 0S-1594     | BOLT (3/8-16X1-IN)                 | 3   |      |            |
| 2    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 6   |      |            |
| 3    | 2P-2772     | COVER                              | 1   |      |            |
| 4    | 4N-0933     | GASKET                             | 1   |      |            |
| 5    | 1A-2029     | BOLT (3/8-16X1.125-IN)             | 2   |      |            |
| 6    | 113-3174    | BRACKET-COMPRESSOR                 | 1   |      |            |
| 7    | 4S-5898     | SEAL-O-RING                        | 1   |      |            |
| 8    | 2P-1974     | STUD-TAPERLOCK (3/8-16X4.2-IN)     | 3   |      |            |
| 9    | 9S-8752     | NUT-FULL (3/8-16-THD)              | 7   |      |            |
| 10   | 0L-1352     | BOLT (3/8-16X3.25-IN)              | 6   |      |            |
| 11   | 193-9155    | GASKET                             | 1   |      |            |
| 12   | 9N-5576     | COVER-FUEL PUMP GEAR               | 1   |      |            |
| 13   | 3M-0496     | STUD-TAPERLOCK (3/8-16X2.6-IN)     | 1   |      |            |
| 14   | 6N-2508     | GASKET                             | 1   |      |            |
| 15   | 6N-2509     | COVER                              | 1   |      |            |

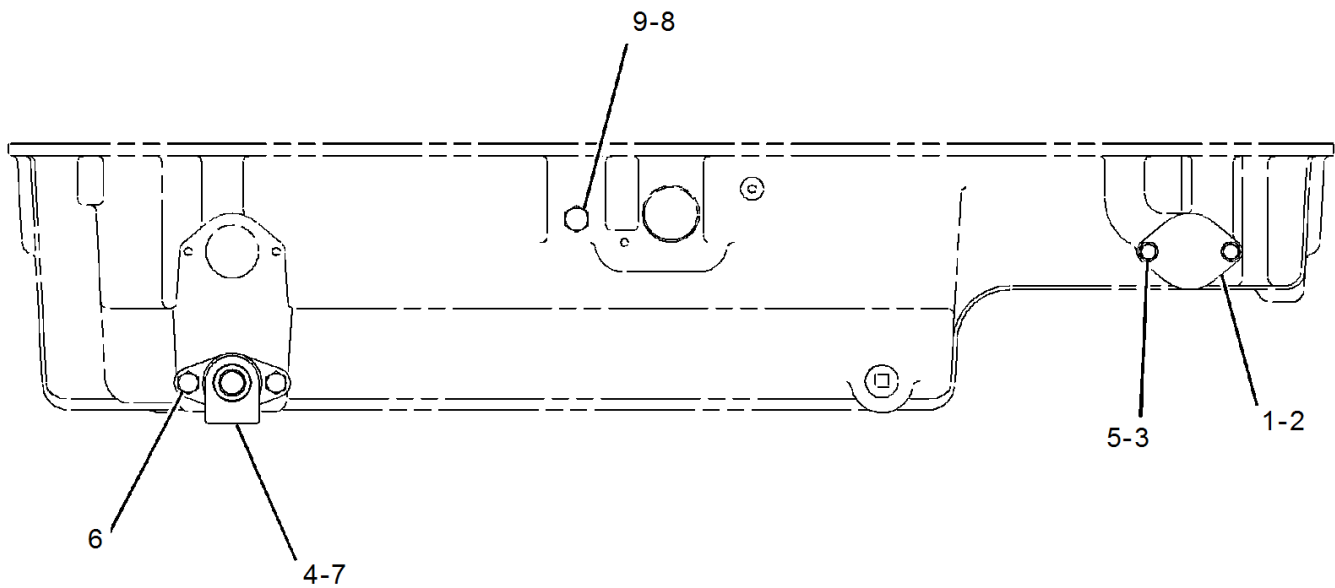
6I-4660 COVER GP-FRONT HOUSING (continued)

| Ref. | Part number | Description                    | Qty | Code | Group page |
|------|-------------|--------------------------------|-----|------|------------|
| 16   | 5F-4899     | BOLT (3/8-16X5.5-IN)           | 4   |      |            |
| 17   | 3B-4589     | STUD (3/8-IN NCX3-5/8)         | 1   |      |            |
| 18   | 3K-3256     | STUD-TAPERLOCK (3/8-16X1.7-IN) | 1   |      |            |

6N-0198 COVER GP-OIL PAN -ENGINE OIL

6N-0198 COVER GP-OIL PAN -ENGINE OIL S/N 73W14650-UP PART OF 137-4983, 4P-4990 ENGINE AR

Drawing 1 of 1



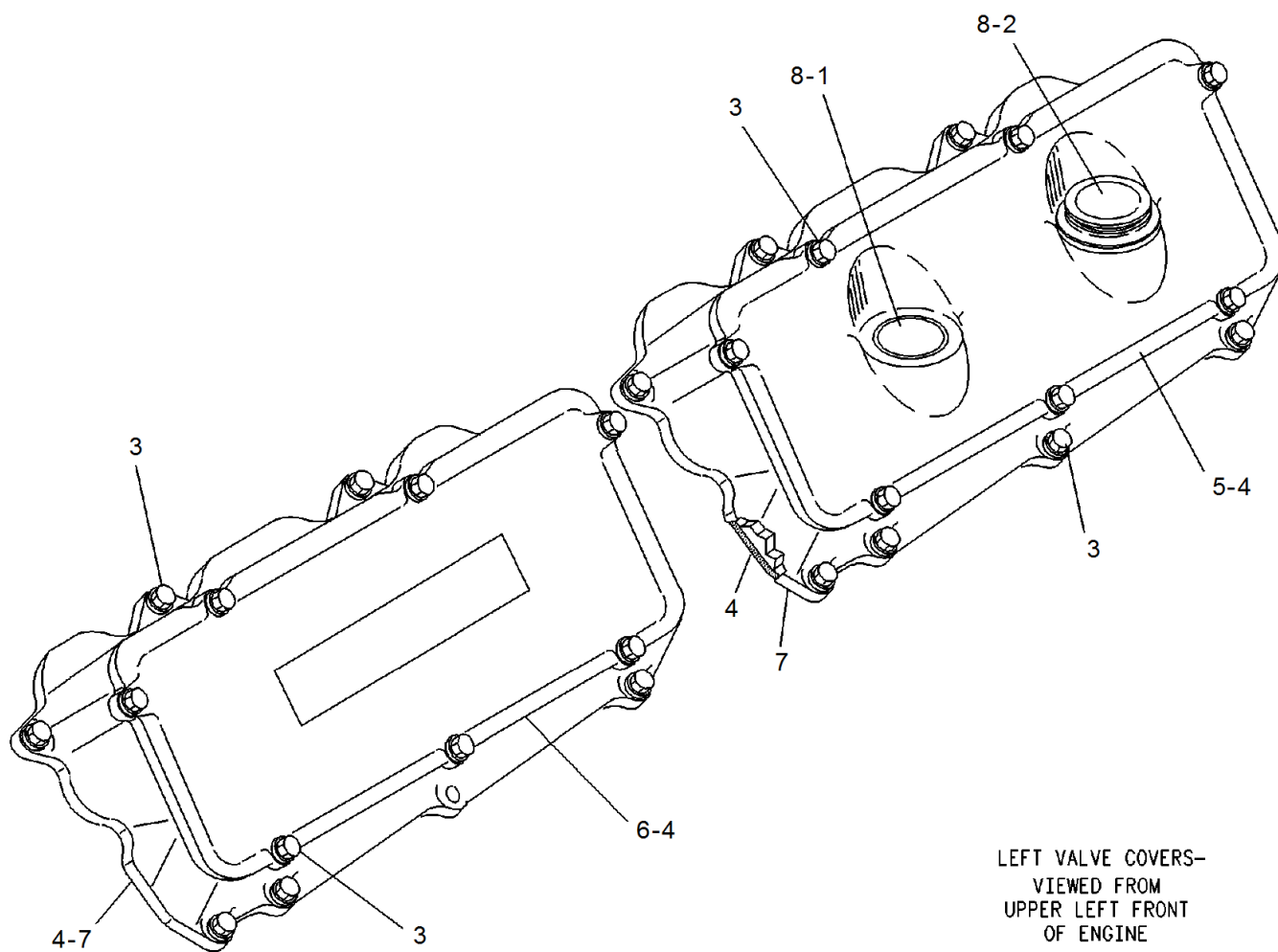
RIGHT SIDE VIEW

| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 4N-0794     | COVER                              | 1   |      |            |
| 2    | 239-5572    | SEAL-INTEGRAL                      | 1   |      |            |
| 3    | 0S-1588     | BOLT (3/8-16X1.25-IN)              | 2   |      |            |
| 4    | 4P-0519     | ADAPTER AS-DRAIN                   | 1   |      |            |
|      | 109-5839    | PLUG-DRAIN (ENGINE)                | 1   |      |            |
|      | 109-5840    | ADAPTER-PLUG                       | 1   |      |            |
| 5    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 2   |      |            |
| 6    | 0S-1587     | BOLT (1/2-13X1.75-IN)              | 2   |      |            |
| 7    | 379-5053    | SEAL-O-RING                        | 1   |      |            |
| 8    | 8L-2786     | SEAL-O-RING                        | 1   |      |            |
| 9    | 9S-4185     | PLUG (3/4-16-THD)                  | 1   |      |            |

## 4W-8311 COVER GP-VALVE MECHANISM

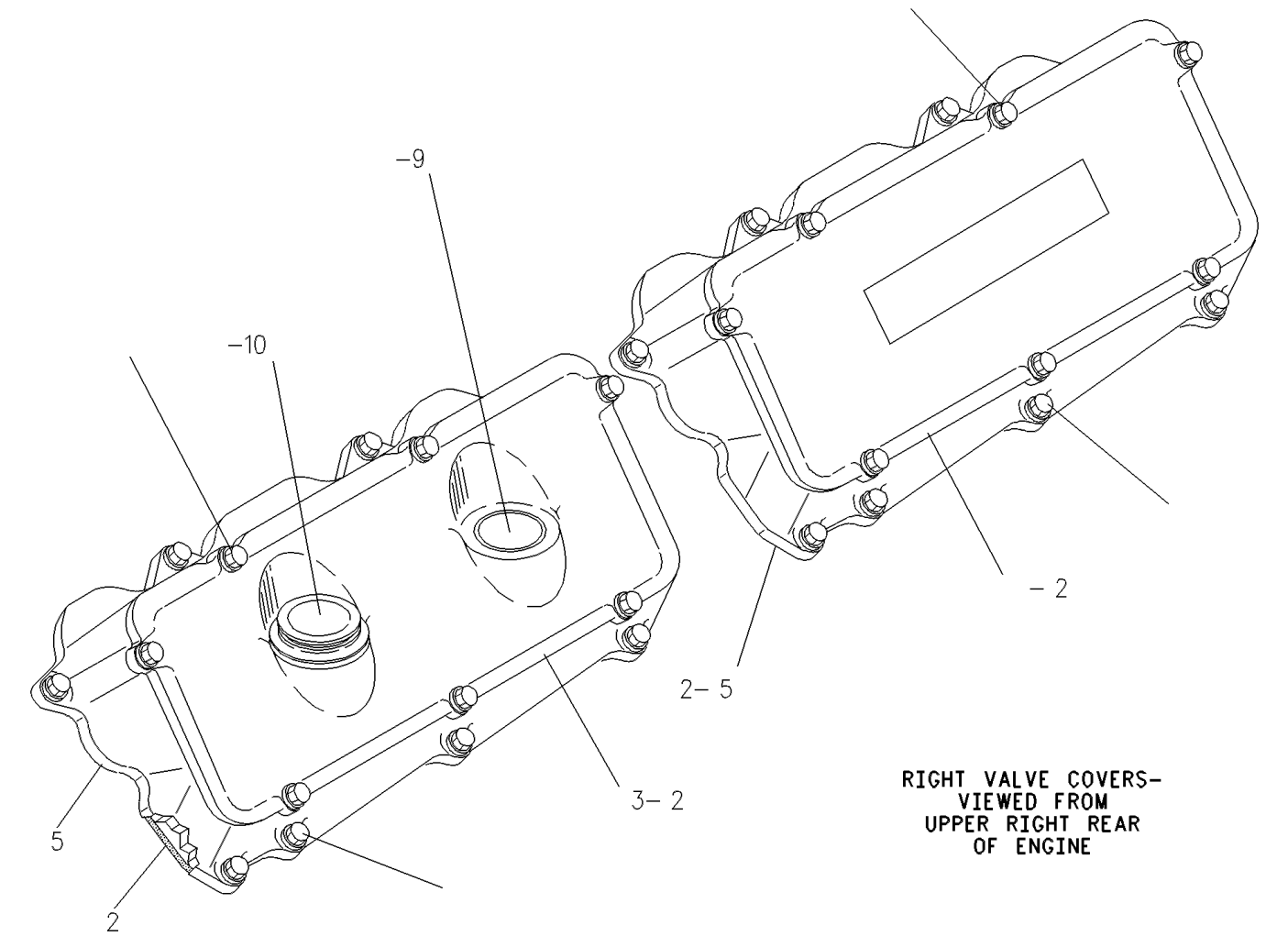
4W-8311 COVER GP-VALVE MECHANISM S/N 73W14650-UP PART OF 137-4983, 4P-4990 ENGINE AR

Drawing 1 of 2



4W-8311 COVER GP-VALVE MECHANISM (continued)

Drawing 2 of 2



| Ref. | Part number | Description                | Qty | Code | Group page |
|------|-------------|----------------------------|-----|------|------------|
| 1    | 7C-9621     | PLUG                       | 1   | C    |            |
| 2    | 7C-6514     | ADAPTER                    | 1   | C    |            |
| 3    | 9L-8925     | BOLT (5/16-18X1.25-IN)     | 29  |      |            |
| 4    | 5P-5678     | SEAL                       |     | BD   |            |
| 5    | 9Y-0015     | COVER-ROCKER ARM           | 1   | C    |            |
| 6    | 6N-2758     | COVER-ROCKER ARM           | 1   |      |            |
| 7    | 4W-2580     | BASE-VALVE MECHANISM COVER | 2   |      |            |
| 8    | 272-2583    | SEAL-O-RING                | 2   | C    |            |
| 9    | 7C-9621     | PLUG                       | 1   | C    |            |
| 10   | 7C-6514     | ADAPTER                    | 1   | C    |            |
| 11   | 9L-8925     | BOLT (5/16-18X1.25-IN)     | 30  |      |            |
| 12   | 5P-5678     | SEAL                       |     | BD   |            |
| 13   | 9Y-0015     | COVER-ROCKER ARM           | 1   | C    |            |

4W-8311 COVER GP-VALVE MECHANISM (continued)

| Ref. | Part number | Description                | Qty | Code | Group page |
|------|-------------|----------------------------|-----|------|------------|
| 14   | 6N-2758     | COVER-ROCKER ARM           | 1   |      |            |
| 15   | 4W-2580     | BASE-VALVE MECHANISM COVER | 2   |      |            |
| 16   | 272-2583    | SEAL-O-RING                | 2   | C    |            |

CAT codes: B, C, D.

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