

# CATERPILLAR D6R

3ZN / SEBP2616

## Contents

| Section                      | Page |
|------------------------------|------|
| <a href="#">Basic engine</a> | 2    |
| Lubrication system           |      |
| Cooling system               |      |
| Fuel system                  |      |
| Fuel system                  |      |
| Basic engine                 |      |
| Power train                  |      |
| Electrical and electronics   |      |
| Power train                  |      |
| Fuel system                  |      |
| Undercarriage                |      |
| Hydraulic system             |      |
| Hydraulic system             |      |
| Labels, kits and diagnostics |      |
| Hydraulic system             |      |
| Catalog items                |      |
| Cooling system               |      |

# 561-8783 BRACKET GP-MOUNTING

561-8783 BRACKET GP-MOUNTING S/N 3ZN1-UP SHOVEL PART OF 459-9163 KIT-MOUNTING

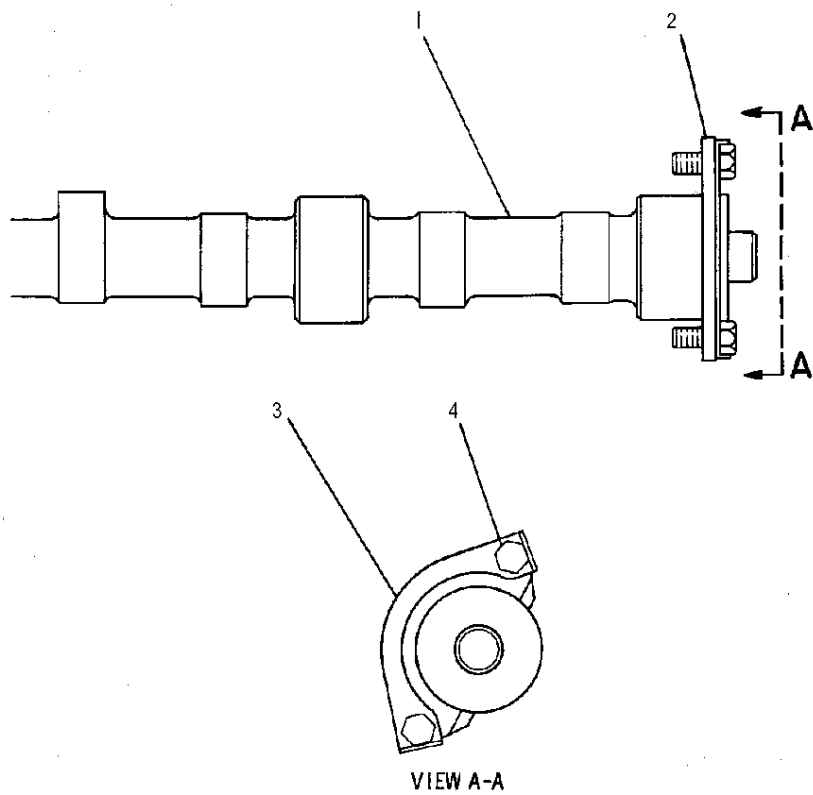
Drawing unavailable in the current source. The parts list is preserved below.

| Ref. | Part number | Description                  | Qty | Code | Group page |
|------|-------------|------------------------------|-----|------|------------|
| 1    | 9M-3835     | LATCH-RUBBER                 | 2   |      |            |
| 2    | 561-8751    | FILM-IDENTIFICATION (SHOVEL) | 1   |      |            |
| 3    | 2M-5795     | PIN-CLEVIS                   | 2   |      |            |
| 4    | 3B-4607     | PIN-COTTER                   | 2   |      |            |

1N-4406 CAMSHAFT GP

1N-4406 CAMSHAFT GP S/N 6NC1-33534; R6J1-UP; 08Z93150-99999 SINGLE PART OF 108-1073 ENGINE AR

Drawing 1 of 1



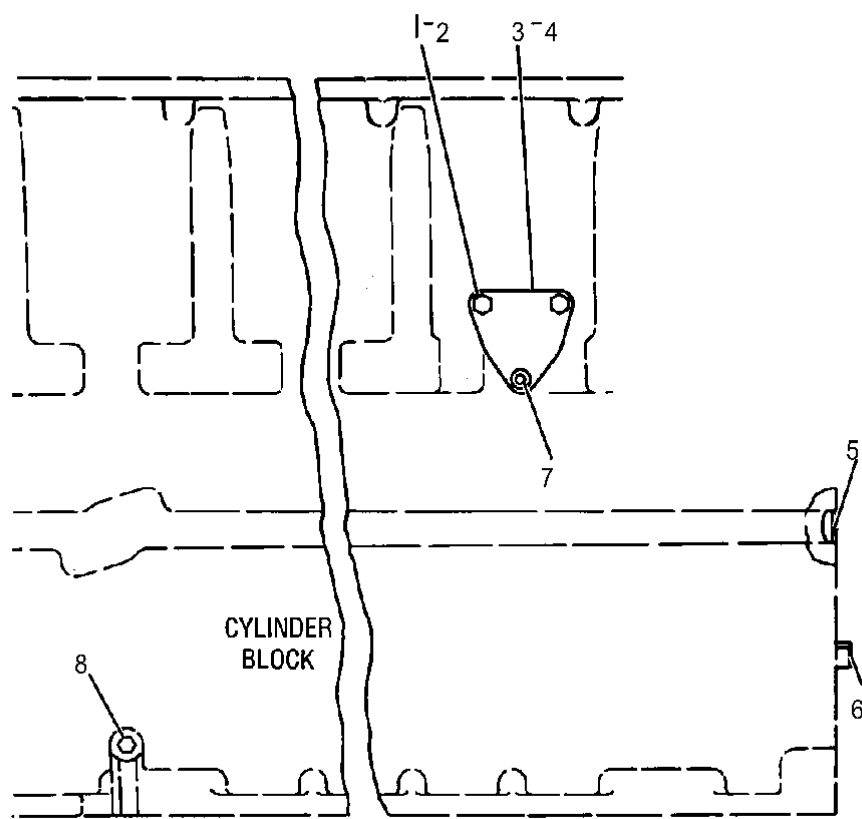
| Ref. | Part number | Description           | Qty | Code | Group page |
|------|-------------|-----------------------|-----|------|------------|
| 1    | 7E-9980     | CAMSHAFT              | 1   |      |            |
| 2    | 7S-2204     | WASHER-THRUST         | 1   |      |            |
| 3    | 8S-1491     | LOCK                  | 1   |      |            |
| 4    | 0S-0509     | BOLT (3/8-16X0.75-IN) | 2   |      |            |

CAT codes: R.

7N-1342 COVER GP-CYLINDER BLOCK

7N-1342 COVER GP-CYLINDER BLOCK S/N 6NC1-33534; R6J1-UP; 08Z93150-99999 PART OF 108-1073 ENGINE AR

Drawing 1 of 1



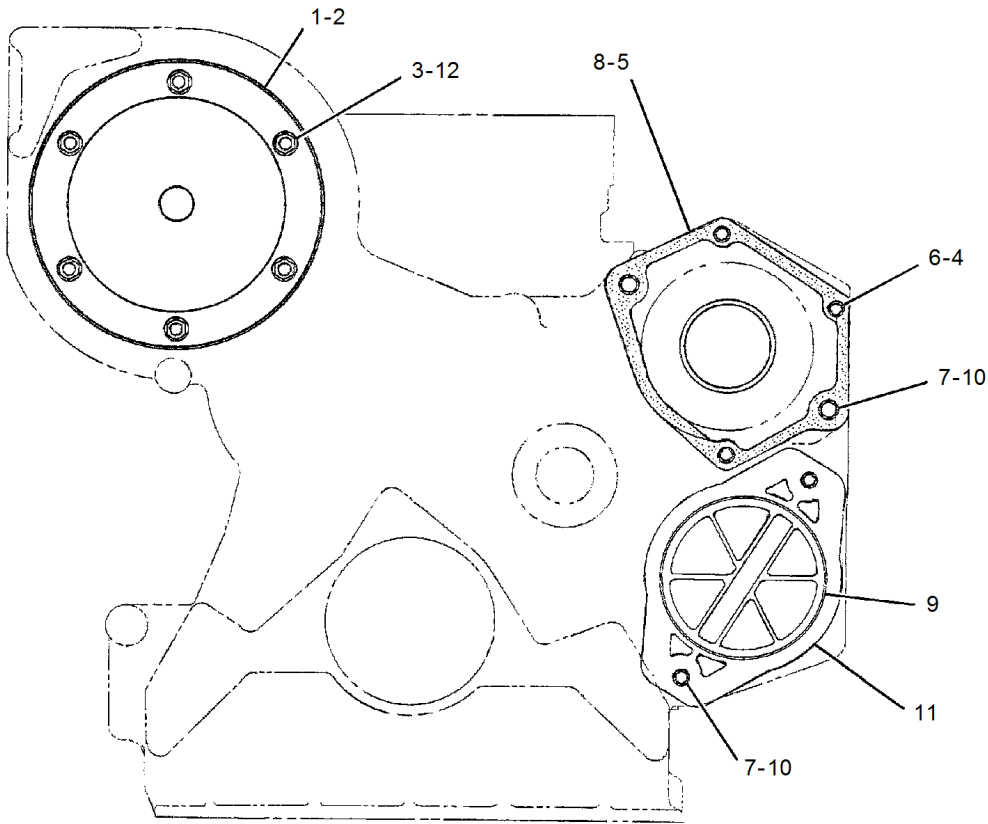
| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 0L-1351     | BOLT (3/8-16X0.875-IN)             | 2   | B    |            |
| 2    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 2   | B    |            |
| 3    | 8L-8662     | COVER                              | 1   | B    |            |
| 4    | 5S-8055     | GASKET                             | 1   | B    |            |
| 5    | 4B-3938     | PLUG-CUP                           | 1   |      |            |
| 6    | 2A-3798     | DOWEL                              | 2   |      |            |
| 7    | 8M-3267     | SCREW-HEX SOCKET (3/8-16X0.75-IN)  | 1   | B    |            |
| 8    | 8T-6764     | PLUG-PIPE (1/8-27-THD)             | 1   | B    |            |

CAT codes: B.

2P-6528 COVER GP-FRONT HOUSING

2P-6528 COVER GP-FRONT HOUSING S/N 6NC1-33534; R6J1-UP; 08Z93150-99999 PART OF 108-1073 ENGINE AR

Drawing 1 of 1

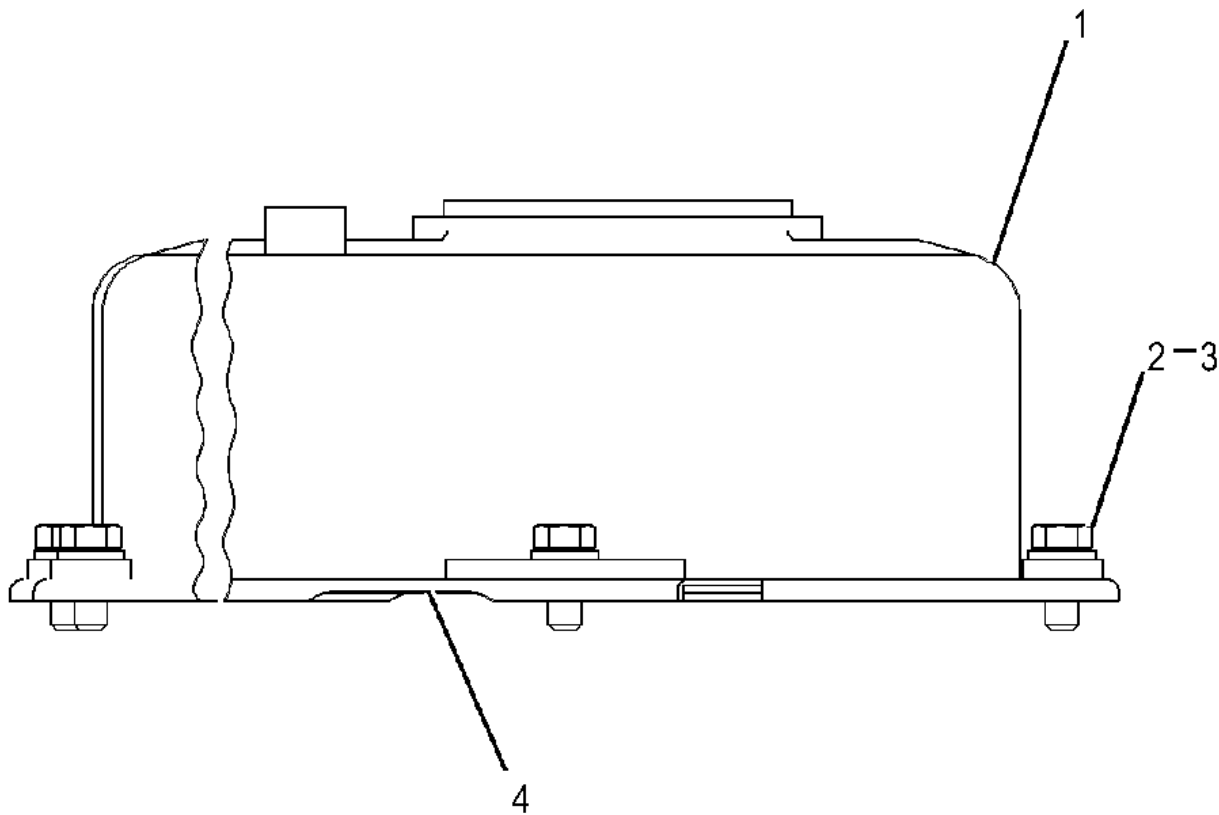


FRONT VIEW OF ENGINE

| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 9N-5769     | COVER-HOUSING                      | 1   |      |            |
| 2    | 6N-7887     | GASKET-HOUSING COVER               | 1   |      |            |
| 3    | 3S-2713     | NUT-FULL (3/8-24-THD)              | 6   |      |            |
| 4    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 3   |      |            |
| 5    | 1W-4542     | COVER-WATER PUMP                   | 1   |      |            |
| 6    | 3B-1915     | BOLT (3/8-16X1.375-IN)             | 3   |      |            |
| 7    | 0S-1566     | BOLT (5/8-11X1.5-IN)               | 4   |      |            |
| 8    | 2P-0220     | GASKET-PUMP                        | 1   |      |            |
| 9    | 5F-3106     | SEAL-O-RING                        | 1   |      |            |
| 10   | 5P-8247     | WASHER-HARD (17X32X3.5-MM THK)     | 4   |      |            |
| 11   | 7N-8374     | COVER-PUMP                         | 1   |      |            |
| 12   | 8M-9024     | WASHER-HARD (10.2X22.5X5-MM THK)   | 6   |      |            |

8N-4745 COVER GP-VALVE MECHANISM

8N-4745 COVER GP-VALVE MECHANISM S/N 6NC1-33534; R6J1-UP; 08Z93150-99999 PART OF 108-1073 ENGINE AR  
Drawing 1 of 1

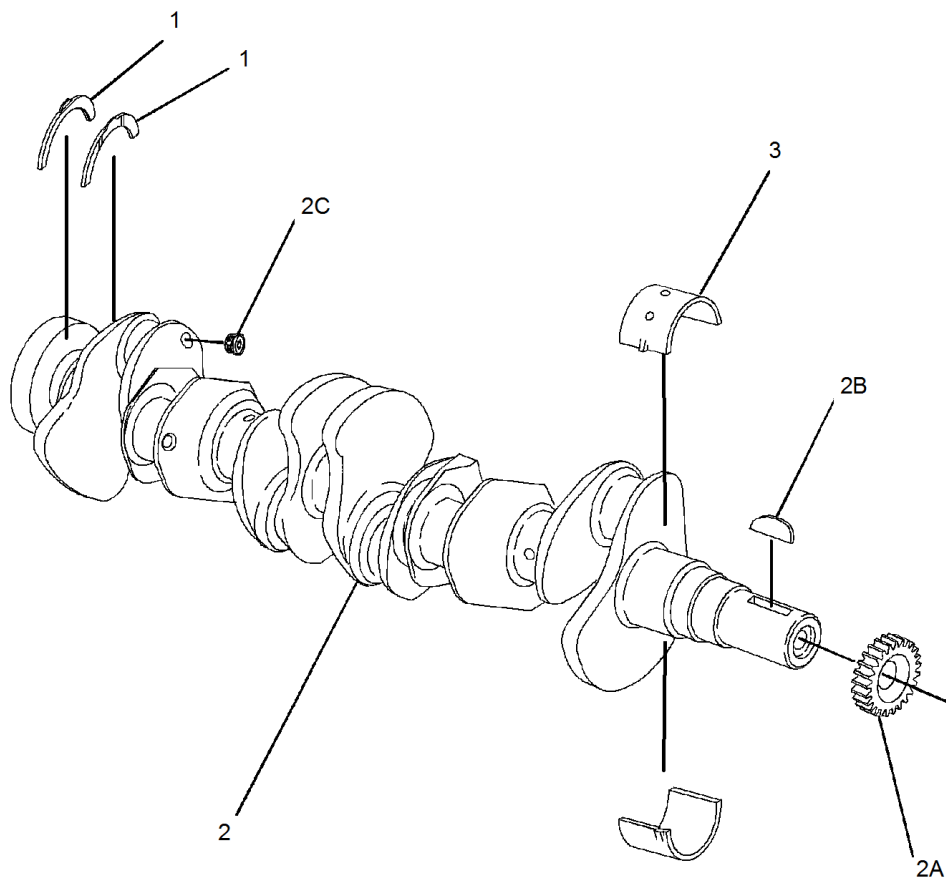


| Ref. | Part number | Description                   | Qty | Code | Group page |
|------|-------------|-------------------------------|-----|------|------------|
| 1    | 2W-1086     | COVER AS-CYLINDER HEAD        | 1   |      |            |
| 2    | 0S-1617     | BOLT (5/16-18X0.75-IN)        | 15  |      |            |
| 3    | 9M-1974     | WASHER-HARD (8.8X16X2-MM THK) | 15  |      |            |
| 4    | 133-1247    | SEAL-VALVE COVER              | 1   |      |            |

4P-9856 CRANKSHAFT GP

4P-9856 CRANKSHAFT GP S/N 6NC1-33534; R6J1-UP; 08Z93150-99999 PART OF 108-1073 ENGINE AR

Drawing 1 of 1



| Ref. | Part number | Description                           | Qty | Code | Group page |
|------|-------------|---------------------------------------|-----|------|------------|
| 1    | 100-3652    | PLATE-THRUST                          | 2   | J    |            |
| 2    | 344-2603    | CRANKSHAFT AS                         | 1   |      |            |
| 2A   | 4P-7827     | GEAR-CRANKSHAFT (33-TEETH)            | 1   |      |            |
| 2B   | 5H-2671     | KEY-WOODRUFF                          | 1   |      |            |
| 2C   | 8T-6757     | PLUG-PIPE                             | 6   |      |            |
| 3    | 232-3233    | BEARING-MAIN (STANDARD)               | 7   | J    |            |
|      | 8N-8225     | BEARING-MAIN (0.25-MM US)             |     | AB   |            |
|      | 8N-8226     | BEARING-MAIN (0.51-MM US)             |     | AB   |            |
|      | 8N-8227     | BEARING-MAIN (0.76-MM US)             |     | AB   |            |
|      | 8N-8228     | BEARING-MAIN (0.51-MM OS)             |     | AB   |            |
|      | 8N-8229     | BEARING-MAIN (0.25-MM US, 0.51-MM OS) |     | AB   |            |
|      | 4P-7305     | BEARING-MAIN (0.51-MM OS, 0.51-MM US) |     | AB   |            |
|      | 4P-7306     | BEARING-MAIN (0.51-MM OS, 0.76-MM US) |     | AB   |            |

4P-9856 CRANKSHAFT GP (continued)

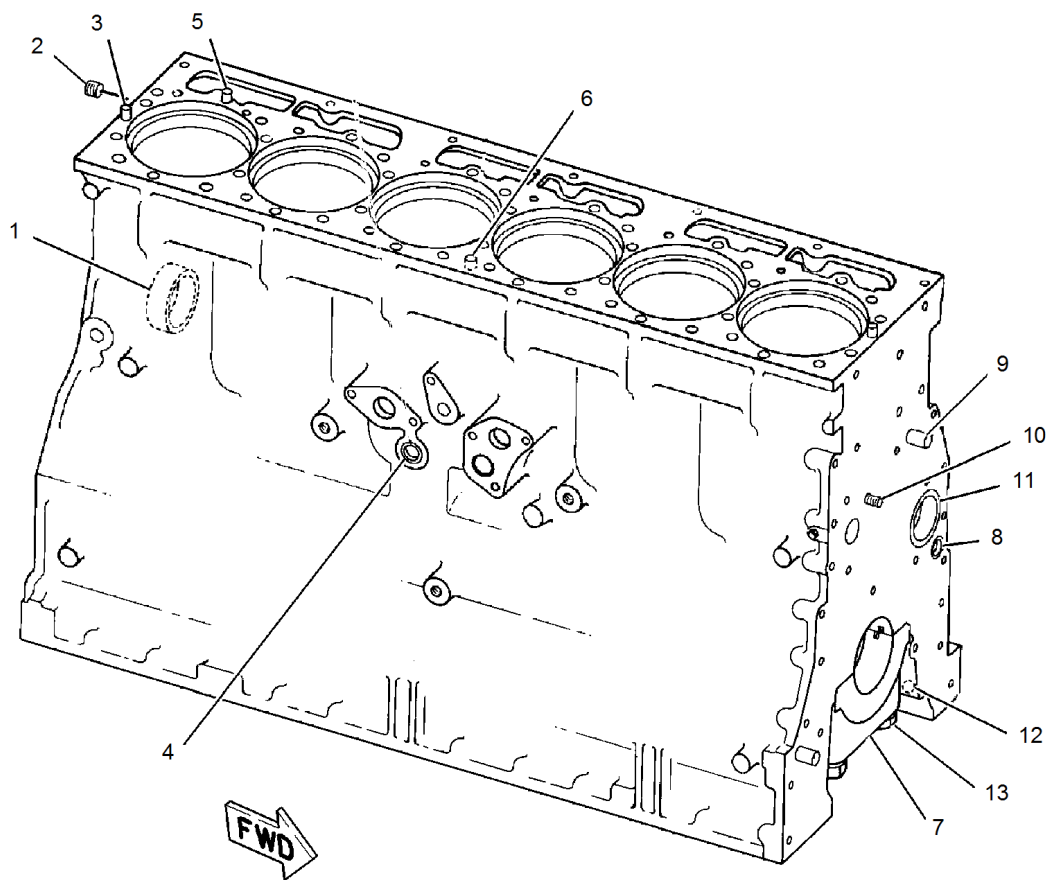
| Ref.                                         | Part number | Description                            | Qty. | Code | Group page |
|----------------------------------------------|-------------|----------------------------------------|------|------|------------|
| AVAILABLE REPLACEMENT PART(S):               |             |                                        |      |      |            |
|                                              | 196-9534    | KIT-BASIC ENGINE REPAIR (MAIN BEARING) |      | AJ   |            |
| (INCLUDES STANDARD BEARINGS & THRUST PLATES) |             |                                        |      |      |            |

CAT codes: A, B, J, R.

1N-3576 CYLINDER BLOCK GP

1N-3576 CYLINDER BLOCK GP S/N 6NC1-UP; 08Z93150-99999 FIELD REPLACEMENT FOR 7N-6550

Drawing 1 of 1

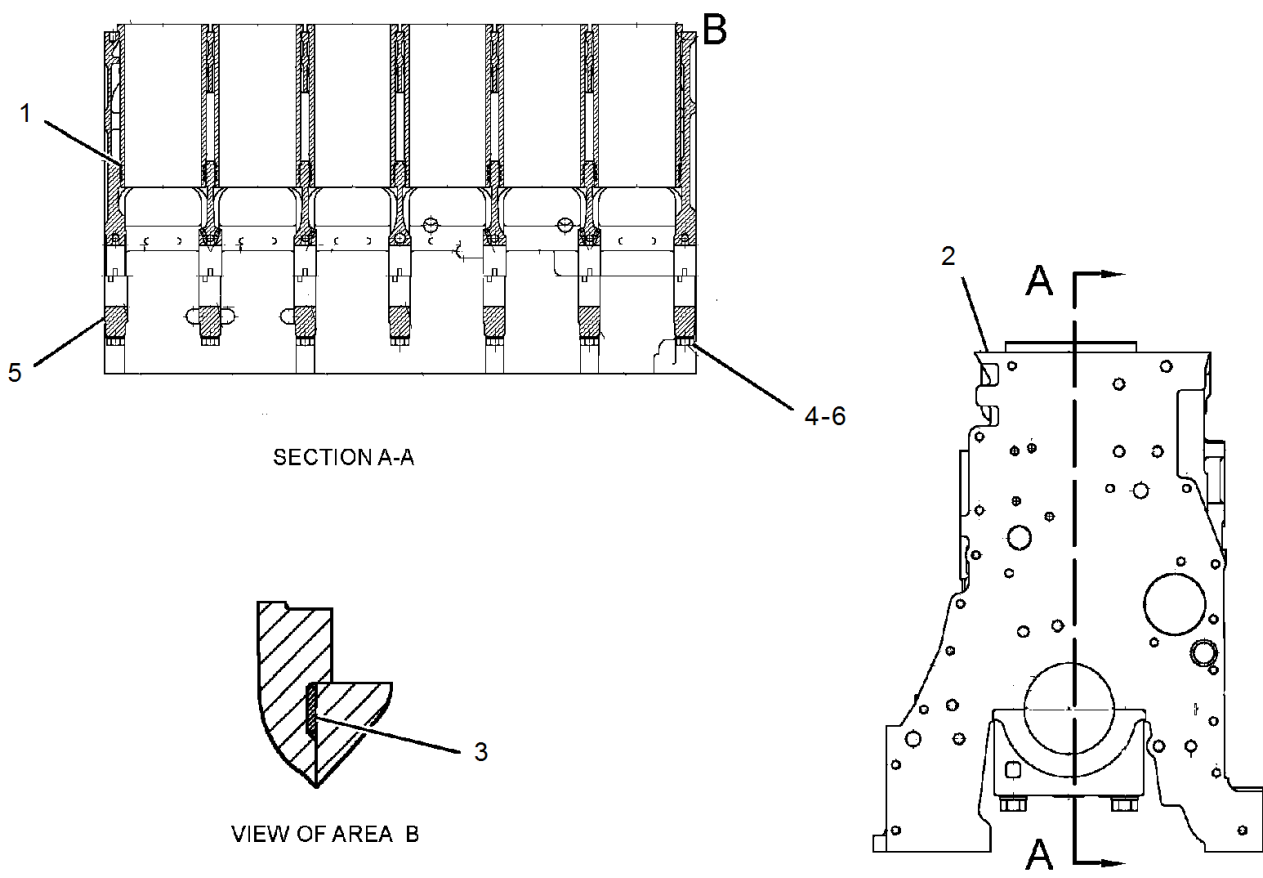


| Ref. | Part number | Description                  | Qty | Code | Group page |
|------|-------------|------------------------------|-----|------|------------|
| 1    | 7M-4046     | BUSHING                      | 4   |      |            |
| 2    | 3J-6019     | PLUG                         | 1   |      |            |
| 3    | 8K-1207     | DOWEL                        | 2   |      |            |
| 4    | 4B-5387     | PLUG-CUP                     | 1   |      |            |
| 5    | 1S-9540     | DOWEL                        | 1   |      |            |
| 6    | 5B-7652     | DOWEL                        | 2   |      |            |
| 7    | 6N-8003     | CAP-CRANKSHAFT BEARING       | 7   |      |            |
| 8    | 4B-3938     | PLUG-CUP                     | 1   |      |            |
| 9    | 8B-6349     | DOWEL                        | 2   |      |            |
| 10   | 5S-8462     | STUD                         | 1   |      |            |
| 11   | 8N-4110     | BUSHING                      | 1   |      |            |
| 12   | 4B-9782     | BALL                         | 1   |      |            |
| 13   | 7S-3224     | BOLT (5/8-11X5.25-IN)        | 14  |      |            |
|      | 2S-5658     | WASHER-HARD (17X29X3-MM THK) | 14  |      |            |

7N-6550 CYLINDER BLOCK GP

7N-6550 CYLINDER BLOCK GP S/N 6NC1-UP; R6J1-UP; 08Z93150-99999 PART OF 8N-5286 CYLINDER BLOCK GP FIELD REPLACEMENT ORDER 1N-3576, 6N-7727 KIT-CYLINDER BLOCK

Drawing 1 of 1



| Ref.                                                   | Part number | Description                      | Qty | Code | Group page |
|--------------------------------------------------------|-------------|----------------------------------|-----|------|------------|
| 1                                                      | 456-5581    | SEAL-O-RING                      | 18  |      |            |
| 2                                                      | 371-5941    | LINER-CYLINDER                   | 6   |      |            |
|                                                        | 104-5512    | INSERT-LINER SEAT (0.822-MM THK) |     | ABJ  |            |
|                                                        | 104-5518    | INSERT-LINER SEAT (1.605-MM THK) |     | ABJ  |            |
|                                                        | 104-5527    | INSERT-LINER SEAT (2.71-MM THK)  |     | ABJ  |            |
|                                                        | 104-5530    | INSERT-LINER SEAT (5.21-MM THK)  |     | ABJ  |            |
| (REFER TO SEBF8198 FOUND IN SISWEB FOR LINER INSERTS.) |             |                                  |     |      |            |
| 3                                                      | 2W-6134     | BAND-FILLER                      | 6   |      |            |
| 4                                                      | 7S-3224     | BOLT (5/8-11X5.25-IN)            | 14  |      |            |
| 5                                                      | 6N-8003     | CAP-CRANKSHAFT BEARING           | 7   |      |            |
| 6                                                      | 2S-5658     | WASHER-HARD (17X29X3-MM THK)     | 14  |      |            |

CAT codes: A, B, J.

**MANUALS-KOMATSU.COM**

## **Complete Caterpillar PDF Parts Catalogue**

3ZN-SEBP2616

**\$99**

Buy on this catalogue page in our store.

Download instructions are sent after payment confirmation.

**Buy complete PDF - \$99**