

# CATERPILLAR 312D L

KES / SEBP5458

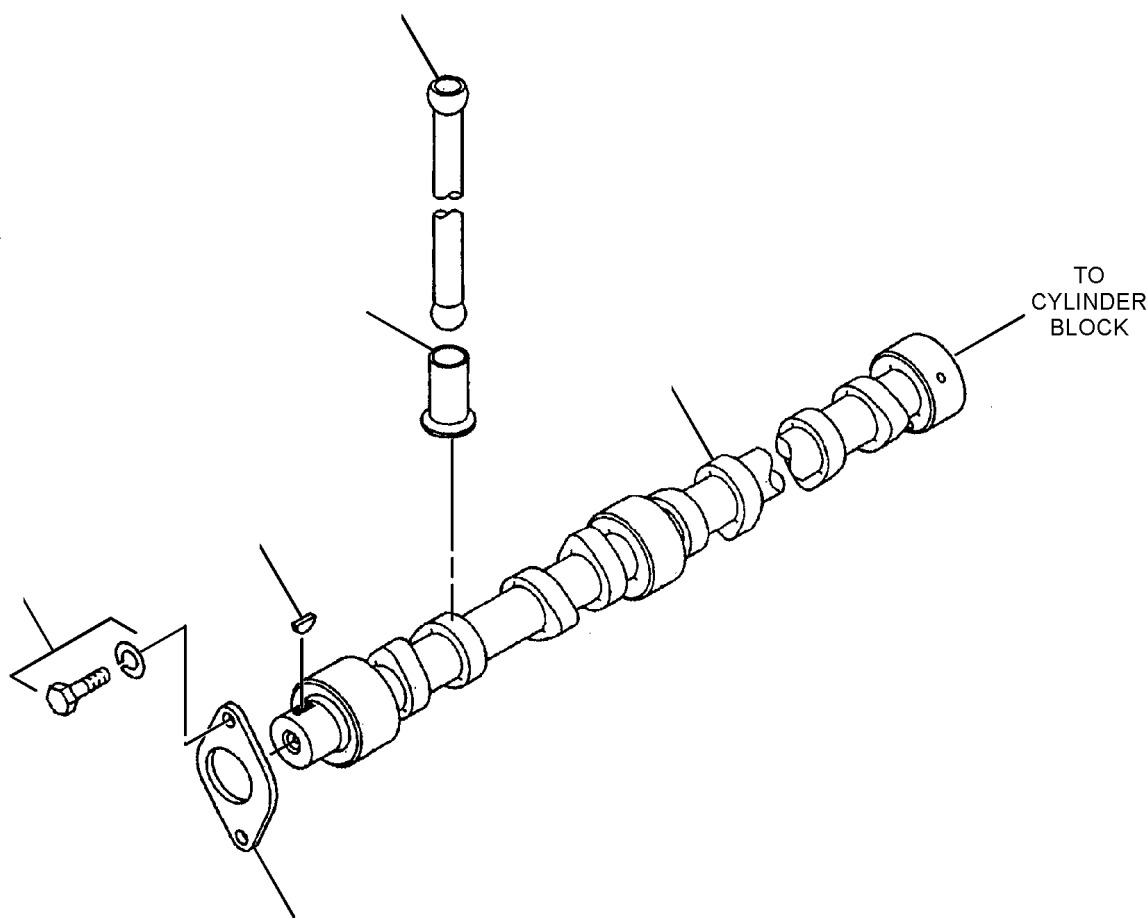
## Contents

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

305-4955 CAMSHAFT GP

305-4955 CAMSHAFT GP S/N JKH1-UP PART OF 279-7814, 420-2179 ENGINE AR ALSO AN ATTACHMENT

Drawing 1 of 1



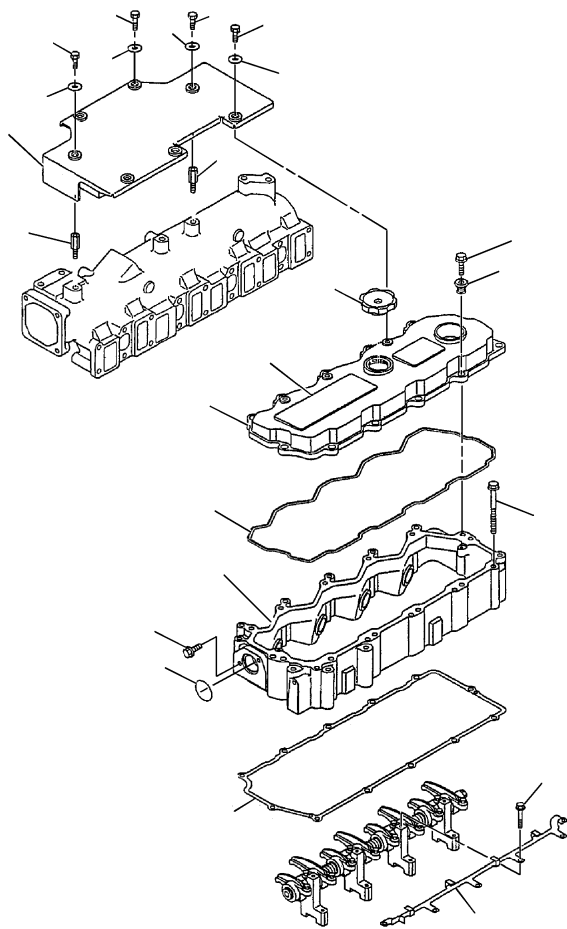
| Ref. | Part number | Description          | Qty | Code | Group page |
|------|-------------|----------------------|-----|------|------------|
| 1    | 305-4758    | CAMSHAFT             | 1   |      |            |
| 2    | 324-4060    | TAPPET               | 8   |      |            |
| 3    | 294-1716    | PUSHROD              | 8   |      |            |
| 4    | 094-4628    | KEY                  | 1   |      |            |
| 5    | 5I-7650     | PLATE                | 1   |      |            |
| 6    | 6V-5215     | BOLT (M8X1.25X16-MM) | 2   | M    |            |

CAT codes: M.

296-4786 COVER GP-VALVE MECHANISM

296-4786 COVER GP-VALVE MECHANISM S/N JKH1-UP PART OF 279-7814, 420-2179 ENGINE AR ALSO AN ATTACHMENT

Drawing 1 of 1



| Ref. | Part number | Description                   | Qty | Code | Group page |
|------|-------------|-------------------------------|-----|------|------------|
| 1    | 305-4767    | BASE-ROCKER ARM               | 1   |      |            |
| 2    | 324-4228    | COVER-ROCKER                  | 1   |      |            |
| 3    | 305-4768    | GASKET                        | 1   |      |            |
| 4    | 296-4694    | GASKET (VALVE COVER)          | 1   |      |            |
| 5    | 324-4229    | COVER                         | 1   |      |            |
| 6    | 294-1708    | CAP (ENGINE OIL FILLER)       | 1   |      |            |
| 7    | 296-4696    | BRACKET                       | 1   |      |            |
| 8    | 294-1710    | BOLT (M6X1X16.2-MM)           | 6   |      |            |
| 9    | 294-1711    | WASHER                        | 12  |      |            |
| 10   | 096-8569    | BOLT (140-MM LG)              | 2   |      |            |
| 11   | 294-1712    | SEAL                          | 1   |      |            |
| 12   | 8T-4224     | WASHER-HARD (8.8X16X2-MM THK) | 7   |      |            |
| 13   | 294-1713    | BOLT (M8X1.25X38.3-MM)        | 12  |      |            |
| 14   | 294-1700    | BOLT (M8X1.25X108.3-MM)       | 12  |      |            |

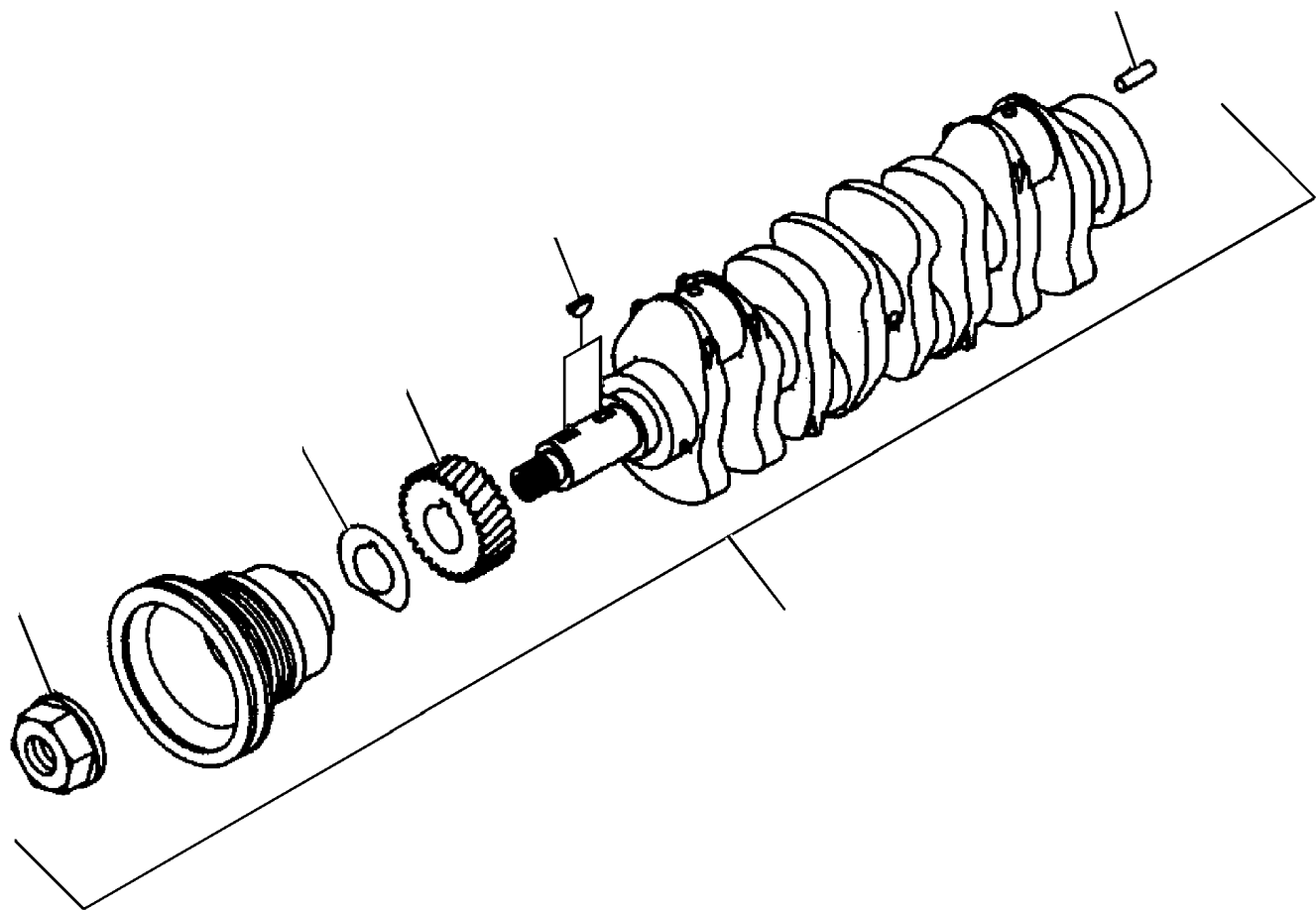
296-4786 COVER GP-VALVE MECHANISM (continued)

| Ref. | Part number | Description                           | Qty | Code | Group page |
|------|-------------|---------------------------------------|-----|------|------------|
| 15   | 095-8799    | BOLT (M8X1.25X30.5-MM)                | 5   |      |            |
| 16   | 294-1821    | BOLT (M8X1.25X35.5-MM)                | 2   |      |            |
| 17   | 294-1714    | STUD                                  | 2   |      |            |
| 18   | 287-8359    | PLATE-IDENTIFICATION (CAT C4.2 ACERT) | 1   |      |            |

296-4789 CRANKSHAFT GP

296-4789 CRANKSHAFT GP S/N JKH1-UP PART OF 279-7814, 420-2179 ENGINE AR ALSO AN ATTACHMENT

Drawing 1 of 1

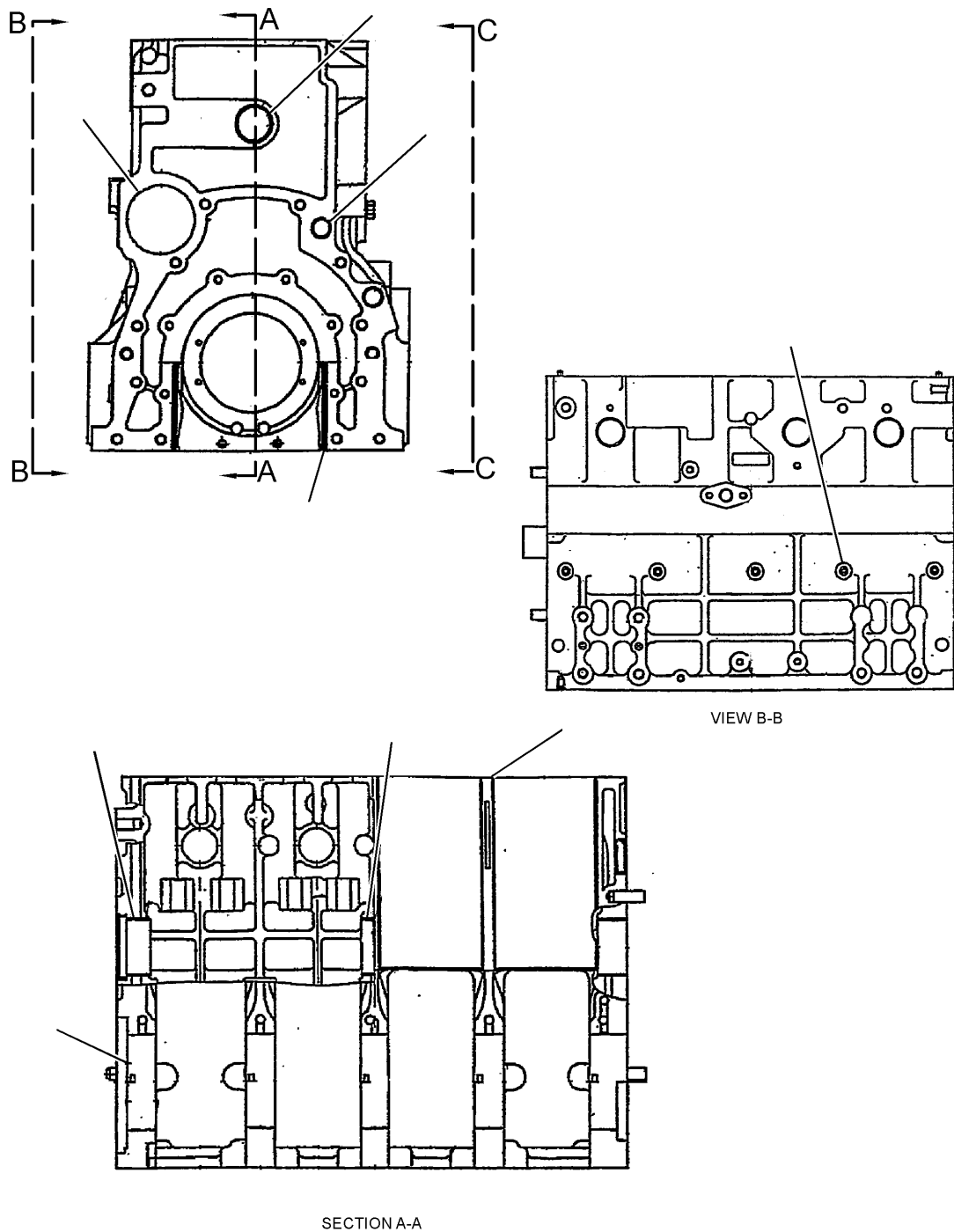


| Ref. | Part number | Description     | Qty | Code | Group page |
|------|-------------|-----------------|-----|------|------------|
| 1    | 296-4710    | CRANKSHAFT AS   | 1   |      |            |
| 1A   | 294-1751    | GEAR (31-TEETH) | 1   |      |            |
| 1B   | 130-7596    | NUT             | 1   |      |            |
| 1C   | 085-9513    | PIN             | 2   |      |            |
| 1D   | 094-4628    | KEY             | 2   |      |            |
| 2    | 233-1277    | PLATE           | 1   |      |            |

## 296-4699 CYLINDER BLOCK GP

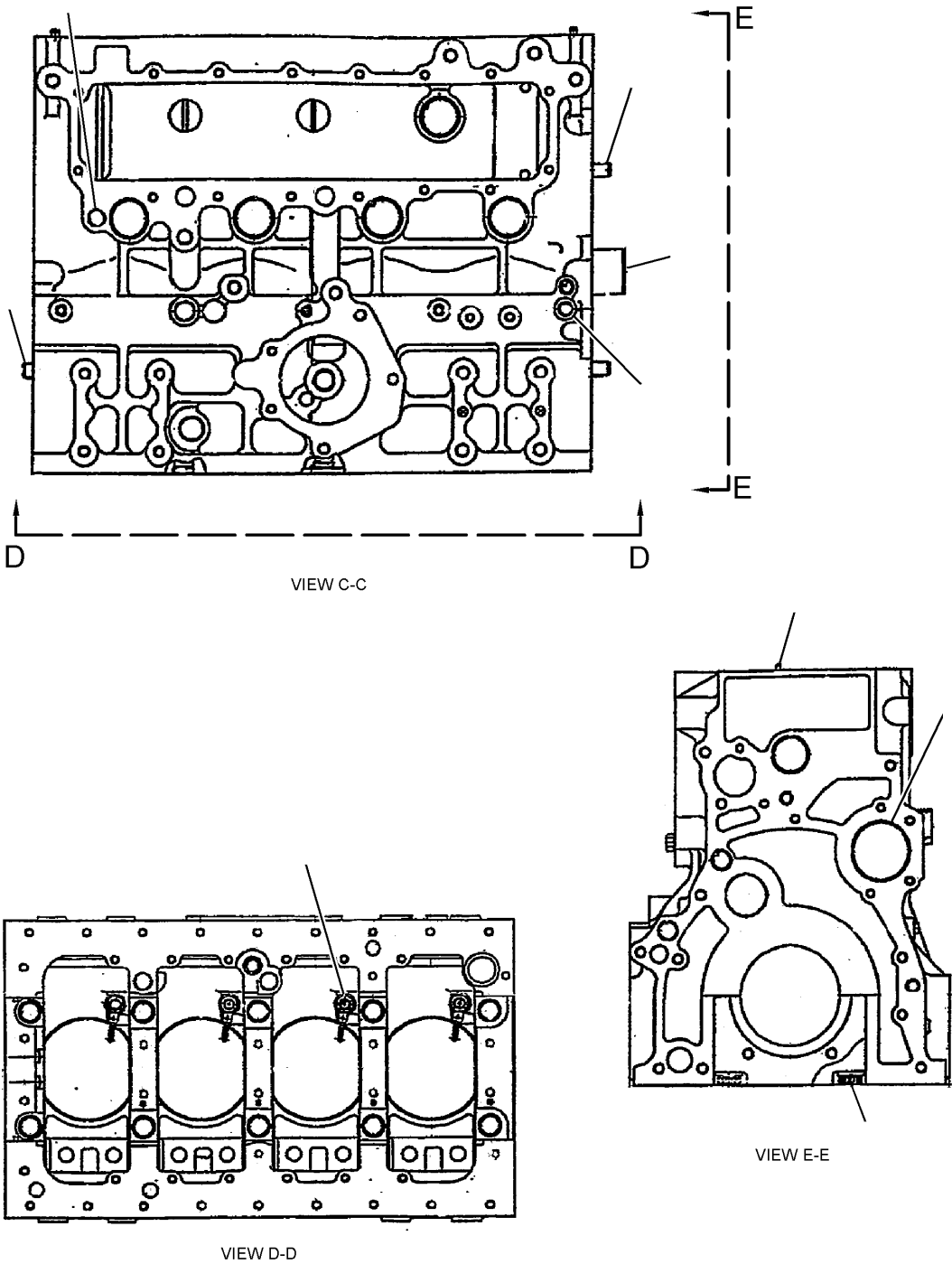
296-4699 CYLINDER BLOCK GP S/N JKH1-UP PART OF 296-4787 CYLINDER BLOCK GP ALSO AN ATTACHMENT

Drawing 1 of 2



296-4699 CYLINDER BLOCK GP (continued)

Drawing 2 of 2



| Ref. | Part number | Description                     | Qty | Code | Group page |
|------|-------------|---------------------------------|-----|------|------------|
| 1    | 4I-9664     | PIN                             | 2   |      |            |
| 5    | 5I-8009     | BUSHING                         | 1   |      |            |
| 6    | 5I-7528     | BUSHING                         | 1   |      |            |
| 7    | 5I-7529     | BUSHING                         | 1   |      |            |
| 8    | 3P-1896     | PLUG-CUP (35.31-MM OD)          | 10  |      |            |
| 9    | 094-7741    | BOLT-BEARING CAP (M14X2X120-MM) | 10  | M    |            |

296-4699 CYLINDER BLOCK GP (continued)

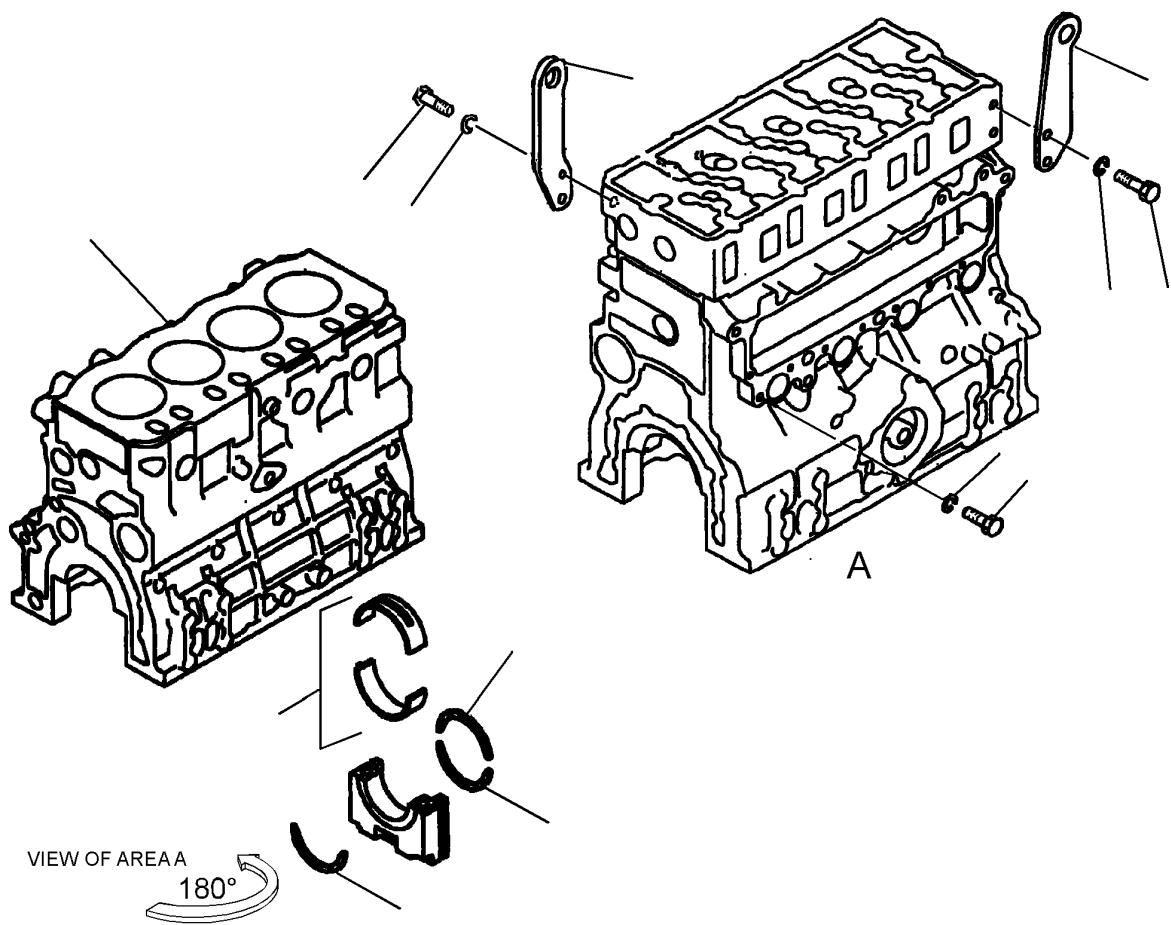
| Ref. | Part number | Description          | Qty | Code | Group page |
|------|-------------|----------------------|-----|------|------------|
| 10   | 095-2005    | CAP                  | 2   |      |            |
| 11   | 096-3741    | CAP                  | 7   |      |            |
| 12   | 294-1720    | SEAL                 | 2   |      |            |
| 13   | 294-1722    | JET                  | 4   |      |            |
| 14   | 5I-7525     | PLUG                 | 1   |      |            |
| 15   | 5I-7505     | PLUG                 | 8   |      |            |
| 16   | 294-1721    | SHAFT                | 1   |      |            |
| 17   | 5I-7724     | PIN                  | 2   |      |            |
| 18   | 095-2039    | WASHER-SPECIAL       | 1   |      |            |
| 19   | 8T-4191     | BOLT (M10X1.5X16-MM) | 1   | M    |            |
| 20   | 099-4420    | PIN                  | 2   |      |            |
| 21   | 296-4672    | PIN                  | 6   |      |            |
| 22   | 139-7814    | VALVE                | 4   |      |            |
| 23   | 094-9424    | GASKET               | 8   |      |            |
| 24   | 551-1828    | SLEEVE               | 4   |      |            |

CAT codes: M.

296-4787 CYLINDER BLOCK GP

296-4787 CYLINDER BLOCK GP S/N JKH1-UP PART OF 279-7814, 420-2179 ENGINE AR ALSO AN ATTACHMENT

Drawing 1 of 1



| Ref. | Part number | Description              | Qty | Code | Group page |
|------|-------------|--------------------------|-----|------|------------|
| 1    | 324-4175    | EYE                      | 1   |      |            |
| 2    | 294-1724    | EYE                      | 1   |      |            |
| 3    | 5I-5181     | BOLT                     | 2   |      |            |
| 4    | 099-4483    | BOLT (M12X1.25X30-MM)    | 2   | M    |            |
| 5    | 096-2501    | LOCKWASHER               | 4   |      |            |
| 6    | 8T-4191     | BOLT (M10X1.5X16-MM)     | 1   | M    |            |
| 7    | 095-2039    | WASHER-SPECIAL           | 1   |      |            |
| 8    | 5I-7654     | PLATE (STANDARD)         | 3   |      |            |
|      | 5I-7787     | PLATE (0.15-MM OS)       |     | AB   |            |
|      | 5I-7788     | PLATE (0.3-MM OS)        |     | AB   |            |
|      | 5I-7789     | PLATE (0.45-MM OS)       |     | AB   |            |
| 9    | 5I-7588     | SET-BEARING (STANDARD)   | 5   |      |            |
|      | 5I-7784     | SET-BEARING (0.25-MM US) |     | AB   |            |

296-4787 CYLINDER BLOCK GP (continued)

| Ref. | Part number | Description                       | Qty | Code | Group page |
|------|-------------|-----------------------------------|-----|------|------------|
|      | 5I-7785     | SET-BEARING (0.5-MM US)           |     | AB   |            |
|      | 5I-7786     | SET-BEARING (0.75-MM US)          |     | AB   |            |
| 10   | 296-4699    | CYLINDER BLOCK GP (WITH BEARINGS) | 1   | Y    |            |

CAT codes: A, B, M, Y.

**MANUALS-KOMATSU.COM**

## **Complete Caterpillar PDF Parts Catalogue**

KES-SEBP5458

**\$99**

Buy on this catalogue page in our store.

Download instructions are sent after payment confirmation.

**Buy complete PDF - \$99**