

# CATERPILLAR 528B

8SJ / SEBP2018

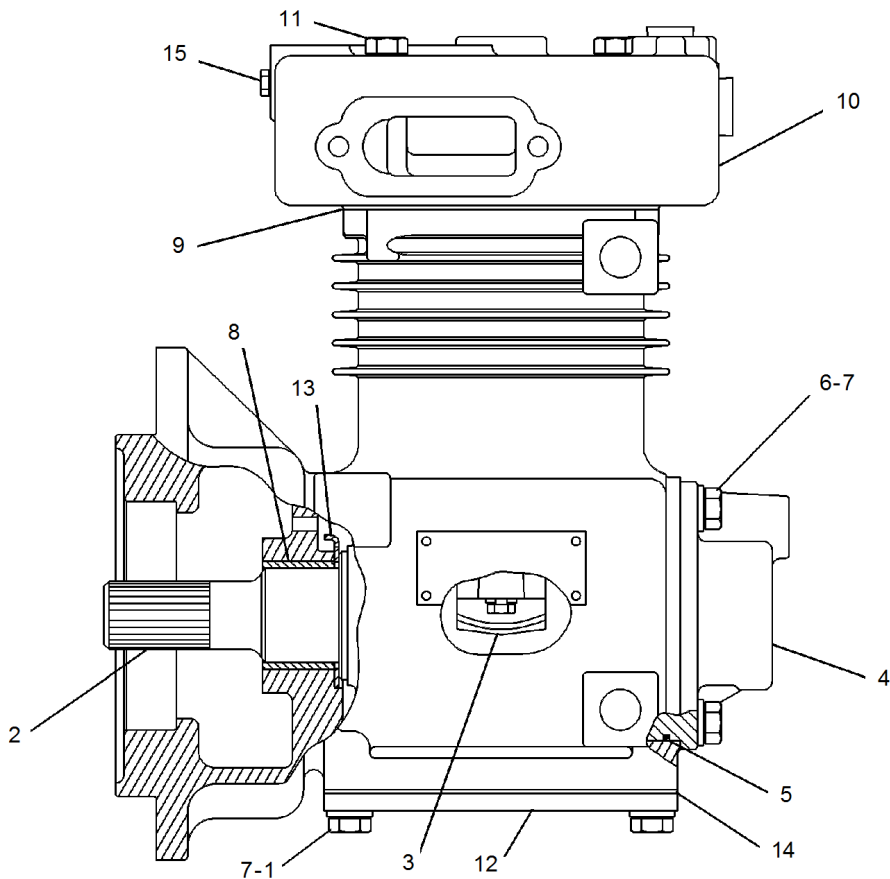
## Contents

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

111-7994 AIR COMPRESSOR GP

111-7994 AIR COMPRESSOR GP S/N 08Z76510-99999 PART OF 7C-0903 AIR COMPRESSOR GP

Drawing 1 of 1



| Ref. | Part number | Description               | Qty | Code | Group page |
|------|-------------|---------------------------|-----|------|------------|
| 1    | 0S-1617     | BOLT (5/16-18X0.75-IN)    | 4   |      |            |
| 2    | 7C-0562     | CRANKSHAFT-AIR COMPRESSOR | 1   |      |            |
| 3    | 7C-0563     | PISTON & ROD AS           | 1   |      |            |
| 4    | 7C-0564     | COVER AS-END              | 1   |      |            |
| 5    | 6V-3865     | SEAL-O-RING               | 1   |      |            |
| 6    | 2B-2695     | BOLT (5/16-18X0.875-IN)   | 4   |      |            |
| 7    | 3B-4505     | LOCKWASHER                | 8   |      |            |
| 8    | 7C-0566     | BEARING                   | 2   |      |            |
| 9    | 7C-0577     | GASKET-CYLINDER HEAD      | 1   |      |            |
| 10   | 108-2522    | CYLINDER HEAD AS          | 1   |      |            |
| 11   | 1D-4540     | BOLT (5/16-18X2.75-IN)    | 4   |      |            |
| 12   | 6I-2124     | COVER-BOTTOM              | 1   |      |            |
| 13   | 9L-1518     | WASHER-THRUST             | 2   |      |            |
| 14   | 6I-2123     | GASKET                    | 1   |      |            |
| 15   | 8T-6764     | PLUG-PIPE (1/8-27-THD)    | 1   |      |            |

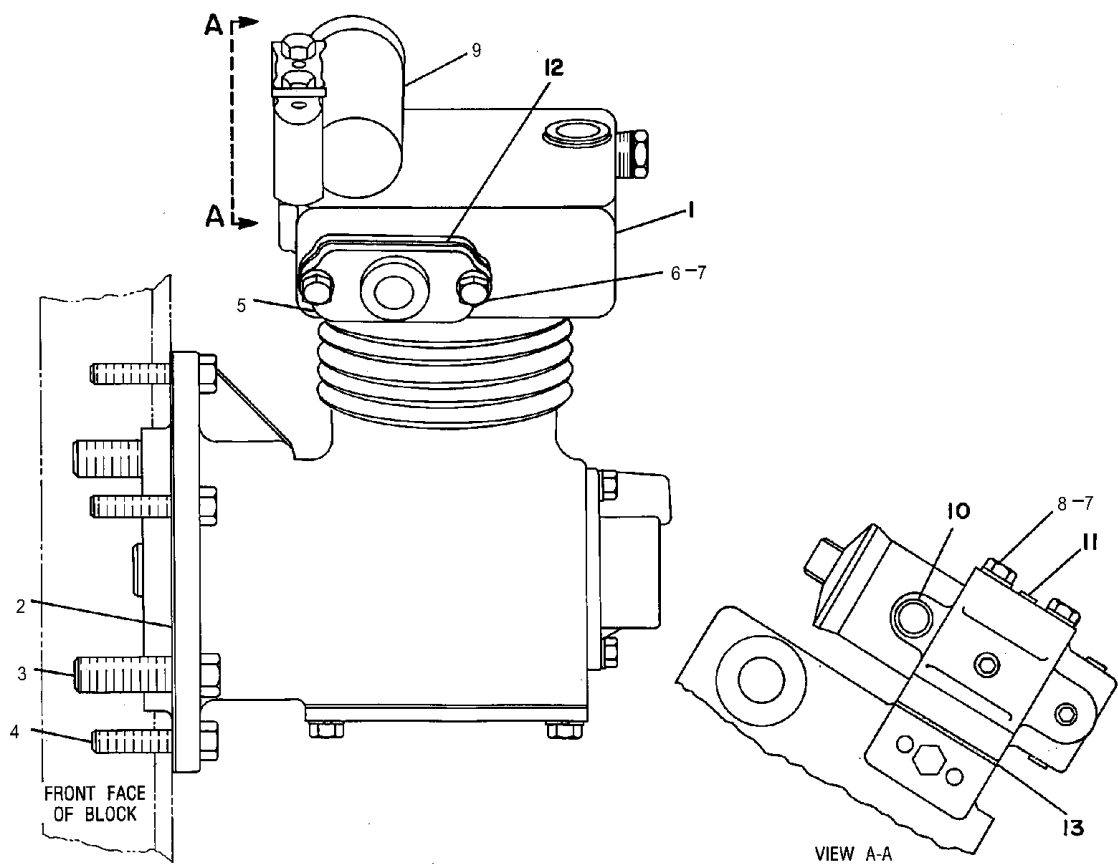
111-7994 AIR COMPRESSOR GP (continued)

| Ref.                                                                             | Part number | Description                       | Qty. | Code | Group page |
|----------------------------------------------------------------------------------|-------------|-----------------------------------|------|------|------------|
| AVAILABLE REPAIR KIT(S):                                                         |             |                                   |      |      |            |
|                                                                                  | 7C-0570     | KIT-PISTON RING (AIR COMPRESSOR)  | 1    |      |            |
| (INCLUDES RINGS)                                                                 |             |                                   |      |      |            |
|                                                                                  | 107-0260    | KIT-MAJOR REPAIR (AIR COMPRESSOR) | 1    |      |            |
| (INCLUDES PISTON, STOP AS, SPRINGS, GASKETS, VALVES, SEAT, STOP, WASHERS & SEAL) |             |                                   |      |      |            |

7C-0903 AIR COMPRESSOR GP

7C-0903 AIR COMPRESSOR GP S/N 08Z66000-76509 PART OF 4P-5558 ENGINE AR

Drawing 1 of 1



| Ref. | Part number | Description                   | Qty | Code | Group page |
|------|-------------|-------------------------------|-----|------|------------|
| 1    | 7E-8541     | AIR COMPRESSOR GP             | 1   | Y    |            |
| 2    | 2P-0220     | GASKET-PUMP                   | 1   |      |            |
| 3    | 0S-1589     | BOLT (5/8-11X1.75-IN)         | 2   |      |            |
| 4    | 3B-1915     | BOLT (3/8-16X1.375-IN)        | 3   |      |            |
| 5    | 9M-0397     | ADAPTER                       | 1   |      |            |
| 6    | 2B-2695     | BOLT (5/16-18X0.875-IN)       | 2   |      |            |
| 7    | 9M-1974     | WASHER-HARD (8.8X16X2-MM THK) | 4   |      |            |
| 8    | 1D-4540     | BOLT (5/16-18X2.75-IN)        | 2   |      |            |
| 9    | 1W-8939     | GOVERNOR AS-AIR COMPRESSOR    | 1   |      |            |
|      | 2S-2923     | COVER AS                      | 1   |      |            |
| 10   | 5F-5434     | VALVE AS-VENT                 | 1   |      |            |
| 11   | 9F-2247     | PLUG-PIPE (1/8-27-THD)        | 5   |      |            |
| 12   | 8M-7065     | GASKET (AIR INLET)            | 1   |      |            |
| 13   | 6L-1883     | GASKET                        | 1   |      |            |

7C-0903 AIR COMPRESSOR GP (continued)

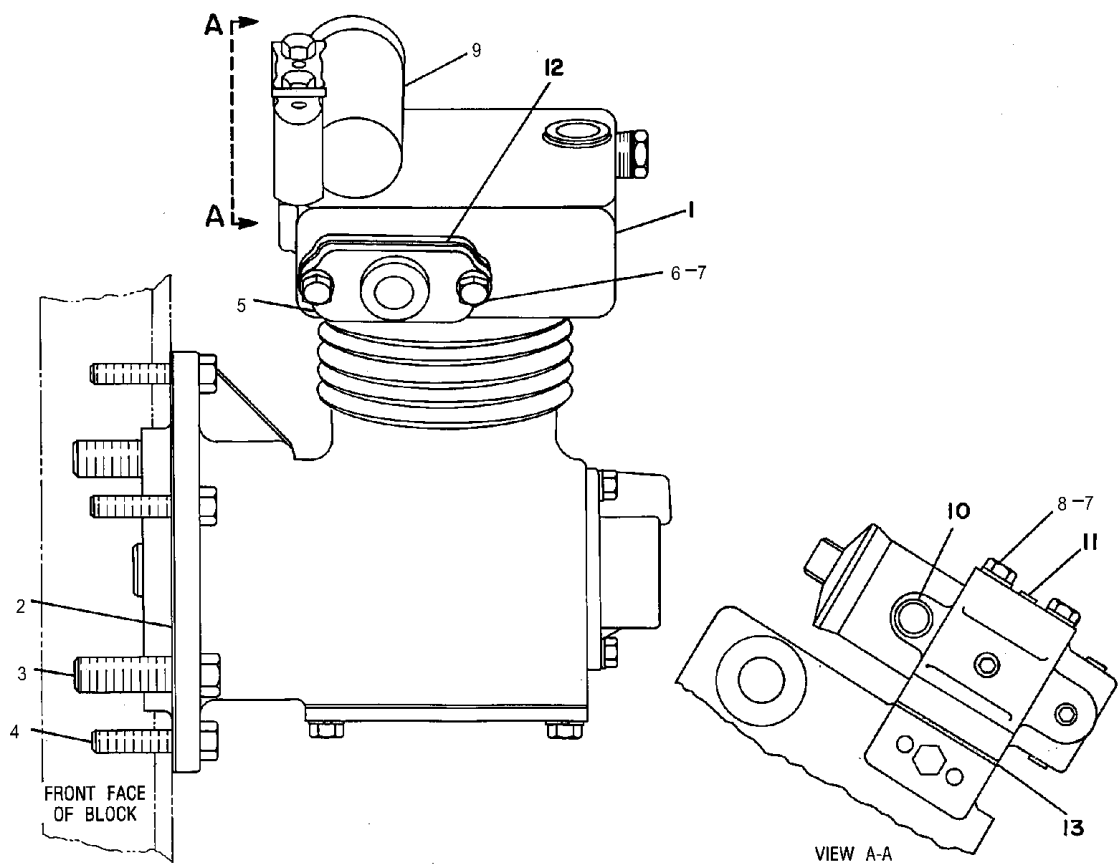
| Ref.                                                     | Part number | Description                            | Qty. | Code | Group page |
|----------------------------------------------------------|-------------|----------------------------------------|------|------|------------|
| AVAILABLE REPAIR KIT(S):                                 |             |                                        |      |      |            |
|                                                          | 9M-0402     | KIT-GOVERNOR OVERHAUL (AIR COMPRESSOR) | 1    |      |            |
| (INCLUDES GROMMETS, FILTER, SPRING, VALVE, COVER & RING) |             |                                        |      |      |            |

CAT codes: R, Y.

7C-0903 AIR COMPRESSOR GP

7C-0903 AIR COMPRESSOR GP S/N 08Z76510-99999 PART OF 4P-5558 ENGINE AR

Drawing 1 of 1



| Ref. | Part number | Description                   | Qty | Code | Group page |
|------|-------------|-------------------------------|-----|------|------------|
| 1    | 111-7994    | AIR COMPRESSOR GP             | 1   | YC   |            |
| 2    | 2P-0220     | GASKET-PUMP                   | 1   |      |            |
| 3    | 0S-1589     | BOLT (5/8-11X1.75-IN)         | 2   |      |            |
| 4    | 3B-1915     | BOLT (3/8-16X1.375-IN)        | 3   |      |            |
| 5    | 9M-0397     | ADAPTER                       | 1   |      |            |
| 6    | 2B-2695     | BOLT (5/16-18X0.875-IN)       | 2   |      |            |
| 7    | 9M-1974     | WASHER-HARD (8.8X16X2-MM THK) | 4   |      |            |
| 8    | 1D-4540     | BOLT (5/16-18X2.75-IN)        | 2   |      |            |
| 9    | 1W-8939     | GOVERNOR AS-AIR COMPRESSOR    | 1   |      |            |
|      | 2S-2923     | COVER AS                      | 1   |      |            |
| 10   | 5F-5434     | VALVE AS-VENT                 | 1   |      |            |
| 11   | 8T-6757     | PLUG-PIPE                     | 4   | C    |            |
| 12   | 8M-7065     | GASKET (AIR INLET)            | 1   |      |            |
| 13   | 6L-1883     | GASKET                        | 1   |      |            |

7C-0903 AIR COMPRESSOR GP (continued)

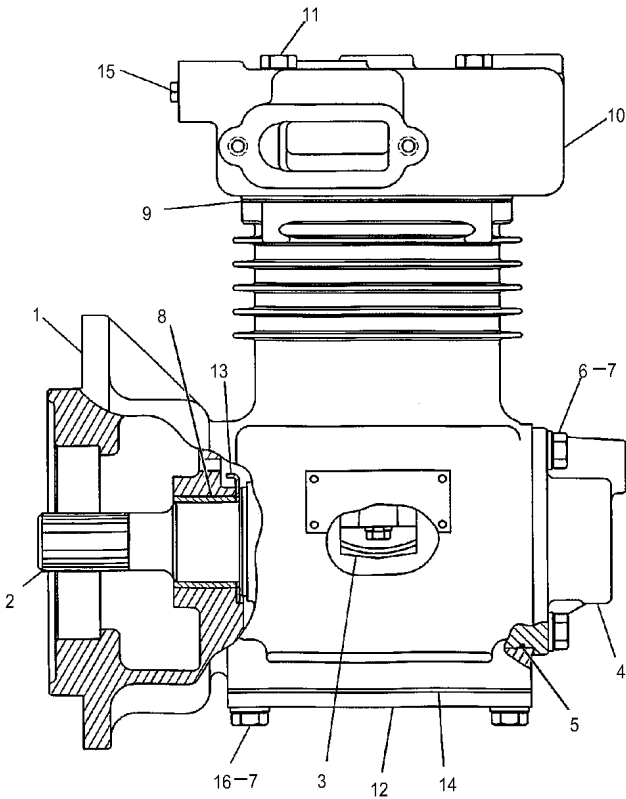
| Ref.                                                   | Part number | Description                            | Qty. | Code | Group page |
|--------------------------------------------------------|-------------|----------------------------------------|------|------|------------|
| AVAILABLE REPAIR KIT(S):                               |             |                                        |      |      |            |
|                                                        | 9M-0402     | KIT-GOVERNOR OVERHAUL (AIR COMPRESSOR) | 1    |      |            |
| (INCLUDES GROMMETS,FILTER, SPRING, VALVE,COVER & RING) |             |                                        |      |      |            |

CAT codes: C, R, Y.

7E-8541 AIR COMPRESSOR GP

7E-8541 AIR COMPRESSOR GP S/N 08Z66000-UP SINGLE CYLINDER PART OF 7C-0903 AIR COMPRESSOR GP

Drawing 1 of 1



| Ref. | Part number | Description                 | Qty | Code | Group page |
|------|-------------|-----------------------------|-----|------|------------|
| 1    | 7C-0561     | CRANKCASE GP-AIR COMPRESSOR | 1   |      |            |
| 2    | 7C-0562     | CRANKSHAFT-AIR COMPRESSOR   | 1   |      |            |
| 3    | 7C-0563     | PISTON & ROD AS             | 1   |      |            |
| 4    | 7C-0564     | COVER AS-END                | 1   |      |            |
| 5    | 7C-0565     | SEAL-END COVER              | 1   |      |            |
| 6    | 2B-2695     | BOLT (5/16-18X0.875-IN)     | 4   |      |            |
| 7    | 3B-4505     | LOCKWASHER                  | 8   |      |            |
| 8    | 7C-0566     | BEARING                     | 2   |      |            |
| 9    | 7C-0577     | GASKET-CYLINDER HEAD        | 1   |      |            |
| 10   | 9Y-5746     | CYLINDER HEAD AS            | 1   |      |            |
| 11   | 1D-4540     | BOLT (5/16-18X2.75-IN)      | 4   |      |            |
| 12   | 7C-0567     | COVER-BOTTOM                | 1   |      |            |
| 13   | 9L-1518     | WASHER-THRUST               | 2   |      |            |
| 14   | 7C-0568     | GASKET                      | 1   |      |            |
| 15   | 5M-6214     | PLUG (1/8-27 PTF)           | 1   |      |            |

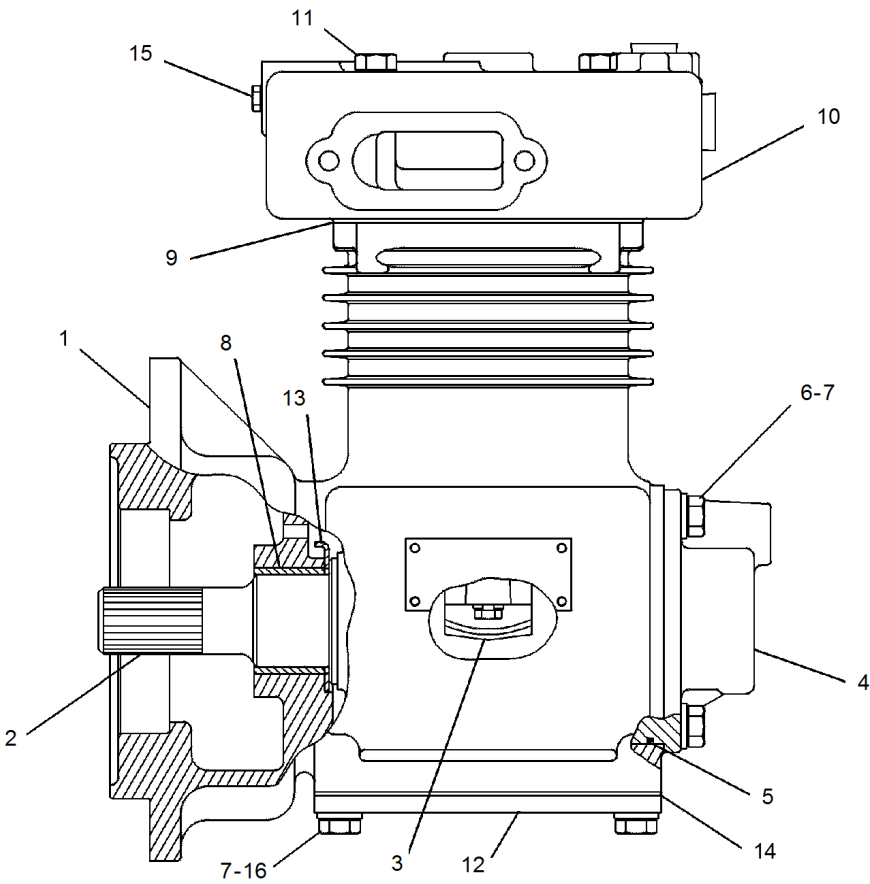
7E-8541 AIR COMPRESSOR GP (continued)

| Ref.                                                                                                   | Part number | Description            | Qty | Code | Group page |
|--------------------------------------------------------------------------------------------------------|-------------|------------------------|-----|------|------------|
| 16                                                                                                     | 0S-1617     | BOLT (5/16-18X0.75-IN) | 4   |      |            |
| AVAILABLE REPAIR KIT(S):                                                                               |             |                        |     |      |            |
|                                                                                                        | 7C-0570     | KIT-PISTON RING        | 1   |      |            |
| (INCLUDES RINGS)                                                                                       |             |                        |     |      |            |
|                                                                                                        | 7C-0571     | KIT-UNLOADER           | 1   |      |            |
| (INCLUDES PISTON AS & STOP AS)                                                                         |             |                        |     |      |            |
|                                                                                                        | 100-3043    | KIT-REPAIR             | 1   |      |            |
| (INCLUDES PISTON AS, STOP AS, SPRINGS, GASKETS, VALVES, SEATS, STOP, WASHERS FORM, SEAL, & LOCKWASHER) |             |                        |     |      |            |

7E-8541 AIR COMPRESSOR GP

7E-8541 AIR COMPRESSOR GP S/N 08Z66000-76509 SINGLE CYLINDER PART OF 7C-0903 AIR COMPRESSOR GP

Drawing 1 of 1



| Ref. | Part number | Description                 | Qty | Code | Group page |
|------|-------------|-----------------------------|-----|------|------------|
| 1    | 7C-0561     | CRANKCASE GP-AIR COMPRESSOR | 1   |      |            |
| 2    | 7C-0562     | CRANKSHAFT-AIR COMPRESSOR   | 1   |      |            |
| 3    | 7C-0563     | PISTON & ROD AS             | 1   |      |            |
| 4    | 7C-0564     | COVER AS-END                | 1   |      |            |
| 5    | 7C-0565     | SEAL-END COVER              | 1   |      |            |
| 6    | 2B-2695     | BOLT (5/16-18X0.875-IN)     | 4   |      |            |
| 7    | 3B-4505     | LOCKWASHER                  | 8   |      |            |
| 8    | 7C-0566     | BEARING                     | 2   |      |            |
| 9    | 7C-0577     | GASKET-CYLINDER HEAD        | 1   |      |            |
| 10   | 108-2522    | CYLINDER HEAD AS            | 1   | C    |            |
| 11   | 1D-4540     | BOLT (5/16-18X2.75-IN)      | 4   |      |            |
| 12   | 7C-0567     | COVER-BOTTOM                | 1   |      |            |
| 13   | 9L-1518     | WASHER-THRUST               | 2   |      |            |
| 14   | 7C-0568     | GASKET                      | 1   |      |            |
| 15   | 5M-6214     | PLUG (1/8-27 PTF)           | 1   |      |            |

**MANUALS-KOMATSU.COM**

## **Complete Caterpillar PDF Parts Catalogue**

8SJ-SEBP2018

**\$99**

Buy on this catalogue page in our store.

Download instructions are sent after payment confirmation.

**Buy complete PDF - \$99**