

# CATERPILLAR 623E

6YF / SEBP1870

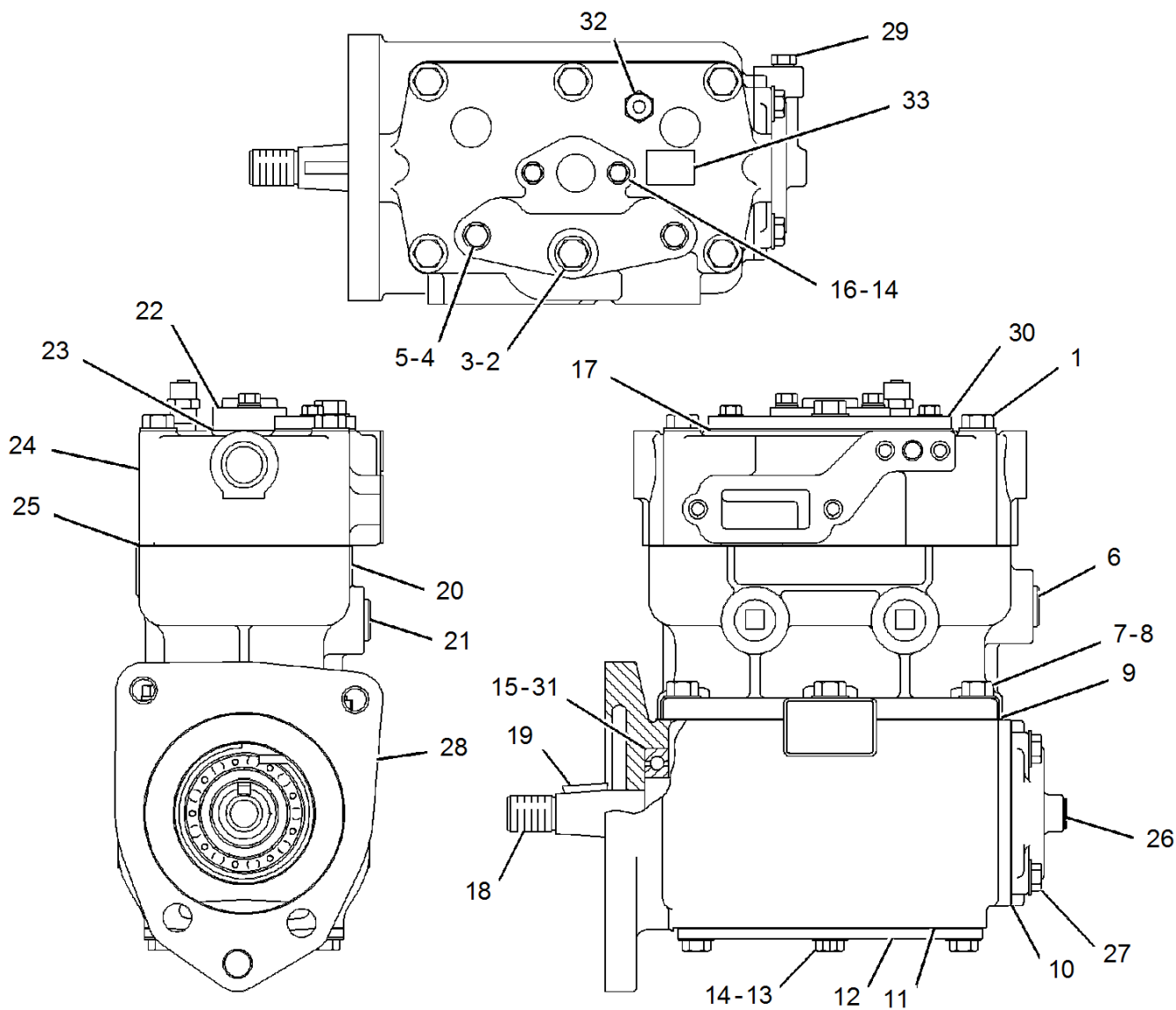
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144-0745 AIR COMPRESSOR GP

144-0745 AIR COMPRESSOR GP S/N 6YF1-99999 PART OF 1N-2981 AIR COMPRESSOR GP

Drawing 1 of 1



| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 0S-1619     | BOLT (3/8-16X3-IN)                 | 5   |      |            |
| 2    | 0L-1352     | BOLT (3/8-16X3.25-IN)              | 1   |      |            |
| 3    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 1   |      |            |
| 4    | 0S-1615     | BOLT (1/4-20X0.75-IN)              | 2   |      |            |
| 5    | 3B-4504     | LOCKWASHER                         | 2   |      |            |
| 6    | 2B-0858     | PLUG-PIPE                          | 1   |      |            |
| 7    | 1A-2029     | BOLT (3/8-16X1.125-IN)             | 6   |      |            |
| 8    | 3B-4506     | LOCKWASHER                         | 6   |      |            |
| 9    | 7N-7446     | GASKET                             | 1   |      |            |

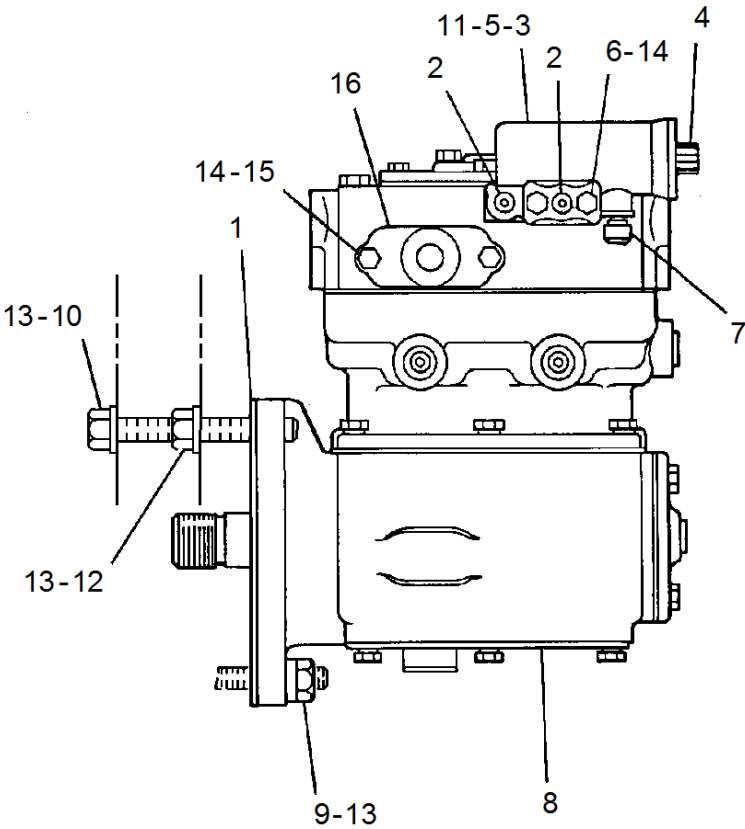
**144-0745 AIR COMPRESSOR GP** (continued)

| Ref.                                                                                        | Part number | Description                                  | Qty | Code | Group page |
|---------------------------------------------------------------------------------------------|-------------|----------------------------------------------|-----|------|------------|
| 10                                                                                          | 7N-7442     | GASKET                                       | 1   |      |            |
| 11                                                                                          | 7N-7440     | GASKET                                       | 1   |      |            |
| 12                                                                                          | 7N-7439     | PLATE-COVER                                  | 1   |      |            |
| 13                                                                                          | 0S-1617     | BOLT (5/16-18X0.75-IN)                       | 6   |      |            |
| 14                                                                                          | 3B-4505     | LOCKWASHER                                   | 8   |      |            |
| 15                                                                                          | 8H-9789     | BALL BEARING                                 | 2   |      |            |
| 16                                                                                          | 2B-2695     | BOLT (5/16-18X0.875-IN)                      | 2   |      |            |
| 17                                                                                          | 7N-7451     | GASKET-UNLOADER                              | 1   |      |            |
| 18                                                                                          | 4W-6706     | CRANKSHAFT-AIR COMPRESSOR                    | 1   |      |            |
| 19                                                                                          | 1B-8714     | KEY-WOODRUFF                                 | 1   |      |            |
| 20                                                                                          | 7N-7445     | CYLINDER BLOCK                               | 1   |      |            |
| 21                                                                                          | 4B-4845     | PLUG                                         | 2   |      |            |
| 22                                                                                          | 4W-9479     | MANIFOLD-EXHAUST                             | 1   |      |            |
| 23                                                                                          | 1S-7107     | GASKET                                       | 1   |      |            |
| 24                                                                                          | 7N-7447     | HEAD AS-COMPRESSOR                           | 1   |      |            |
|                                                                                             | 5L-5502     | FITTING                                      | 1   |      |            |
|                                                                                             | 124-5572    | VALVE AS-RELIEF (AIR COMPRESSOR)             | 1   |      |            |
| 25                                                                                          | 7N-7448     | GASKET                                       | 1   |      |            |
| 26                                                                                          | 7N-7441     | COVER-AIR COMPRESSOR                         | 1   |      |            |
| 27                                                                                          | 034-4160    | BOLT-LOCKING (5/16-18X1-IN)                  | 4   |      |            |
| 28                                                                                          | 4W-6681     | CRANKCASE GP-AIR COMPRESSOR                  | 1   |      |            |
| 29                                                                                          | 5M-6214     | PLUG (1/8-27 PTF)                            | 1   |      |            |
| 30                                                                                          | 7N-7450     | COVER-UNLOADER                               | 1   |      |            |
| 31                                                                                          | 4W-9489     | RING-LOCK                                    | 1   |      |            |
| 32                                                                                          | 138-9057    | VALVE (PRESSURE RELIEF)                      | 1   |      |            |
| 33                                                                                          | 130-5997    | PLATE-INFORMATION (AIR COMPRESSOR)           | 1   |      |            |
| AVAILABLE REPAIR KIT(S):                                                                    |             |                                              |     |      |            |
|                                                                                             | 4P-6409     | KIT-PIN (AIR COMPRESSOR)                     |     |      |            |
|                                                                                             | 7N-7435     | KIT-AIR COMPRESSOR (MAJOR REPAIR)            |     |      |            |
| (INCLUDES GASKETS, PINS, SPRINGS, VALVES, SEATS, COVER, BEARINGS, SEALS, WASHERS, & GUIDES) |             |                                              |     |      |            |
|                                                                                             | 138-2887    | KIT-ROD & BEARING (AIR COMPRESSOR)           |     |      |            |
| (INCLUDES ROD AS & BEARING KIT-0.010 O.S.)                                                  |             |                                              |     |      |            |
|                                                                                             | 144-0502    | KIT-PISTON RING (STANDARD)(AIR COMPRESSOR)   | 1   |      |            |
|                                                                                             | 144-0503    | KIT-PISTON & RING (STANDARD)(AIR COMPRESSOR) | 1   |      |            |
| (INCLUDES PISTON, BUTTON, & RING KIT)                                                       |             |                                              |     |      |            |

1N-2981 AIR COMPRESSOR GP

1N-2981 AIR COMPRESSOR GP S/N 11N1-8638; 70V30440-99999 PART OF 9Y-1778 ENGINE AR

Drawing 1 of 1



| Ref. | Part number | Description                      | Qty | Code | Group page |
|------|-------------|----------------------------------|-----|------|------------|
| 1    | 129-3948    | SEAL-INTEGRAL                    | 1   |      |            |
| 2    | 9F-2247     | PLUG-PIPE (1/8-27-THD)           | 3   |      |            |
| 3    | 1P-7125     | GOVERNOR AS-AIR COMPRESSOR       | 1   |      |            |
| 4    | 2S-2923     | COVER AS                         | 1   |      |            |
| 5    | 6L-1883     | GASKET                           | 1   |      |            |
| 6    | 9M-0378     | BOLT (5/16-18X2.87-IN)           | 2   |      |            |
| 7    | 5F-5434     | VALVE AS-VENT                    | 1   |      |            |
| 8    | 4W-6425     | AIR COMPRESSOR GP                | 1   | YC   |            |
| 9    | 1F-7958     | NUT-FULL (1/2-13-THD)            | 1   |      |            |
| 10   | 1D-4569     | BOLT (1/2-13X4.25-IN)            | 1   |      |            |
| 11   | 5M-6214     | PLUG (1/8-27 PTF)                | 1   |      |            |
| 12   | 9X-8873     | BOLT (1/2-13X2.25-IN)            | 1   |      |            |
| 13   | 5P-8245     | WASHER-HARD (13.5X25.5X3-MM THK) | 3   |      |            |
| 14   | 9M-1974     | WASHER-HARD (8.8X16X2-MM THK)    | 4   |      |            |
| 15   | 2B-2695     | BOLT (5/16-18X0.875-IN)          | 2   | C    |            |

1N-2981 AIR COMPRESSOR GP (continued)

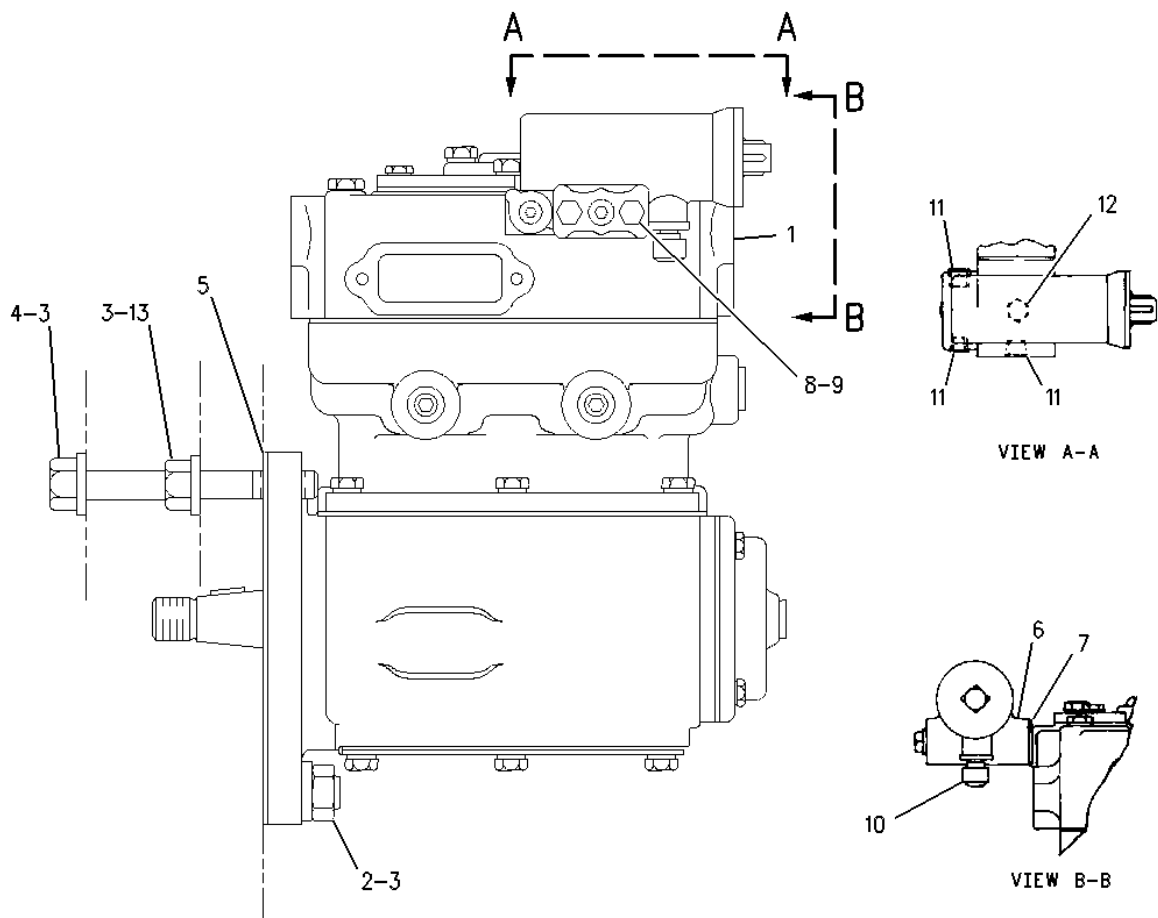
| Ref.                                               | Part number | Description                            | Qty | Code | Group page |
|----------------------------------------------------|-------------|----------------------------------------|-----|------|------------|
| 16                                                 | 9M-0397     | ADAPTER                                | 1   | C    |            |
|                                                    | 8M-7065     | GASKET (AIR INLET)                     | 1   | C    |            |
| AVAILABLE REPAIR KIT(S):                           |             |                                        |     |      |            |
|                                                    | 9M-0402     | KIT-GOVERNOR OVERHAUL (AIR COMPRESSOR) | 1   |      |            |
| (INCLUDES COVER, GROMMETS, SPRING, FILTER & VALVE) |             |                                        |     |      |            |

CAT codes: C, R, Y.

1N-2981 AIR COMPRESSOR GP

1N-2981 AIR COMPRESSOR GP S/N 6YF1-99999 PART OF 321-6313, 321-6316 ENGINE AR Type 1

Drawing 1 of 1



| Ref.                                               | Part number | Description                            | Qty | Code | Group page |
|----------------------------------------------------|-------------|----------------------------------------|-----|------|------------|
| 1                                                  | 144-0745    | AIR COMPRESSOR GP                      | 1   | YC   |            |
| 2                                                  | 1F-7958     | NUT-FULL (1/2-13-THD)                  | 1   |      |            |
| 3                                                  | 5P-8245     | WASHER-HARD (13.5X25.5X3-MM THK)       | 3   |      |            |
| 4                                                  | 1D-4569     | BOLT (1/2-13X4.25-IN)                  | 1   |      |            |
| 5                                                  | 129-3948    | SEAL-INTEGRAL                          | 1   |      |            |
| 6                                                  | 1P-7125     | GOVERNOR AS-AIR COMPRESSOR             | 1   |      |            |
|                                                    | 2S-2923     | COVER AS                               | 1   |      |            |
|                                                    | 9M-0402     | KIT-GOVERNOR OVERHAUL (AIR COMPRESSOR) | 1   |      |            |
| (INCLUDES COVER, GROMMETS, SPRING, FILTER & VALVE) |             |                                        |     |      |            |
| 7                                                  | 6L-1883     | GASKET                                 | 1   |      |            |
| 8                                                  | 9M-0378     | BOLT (5/16-18X2.87-IN)                 | 2   |      |            |
| 9                                                  | 9M-1974     | WASHER-HARD (8.8X16X2-MM THK)          | 2   |      |            |
| 10                                                 | 5F-5434     | VALVE AS-VENT                          | 1   |      |            |

1N-2981 AIR COMPRESSOR GP (continued)

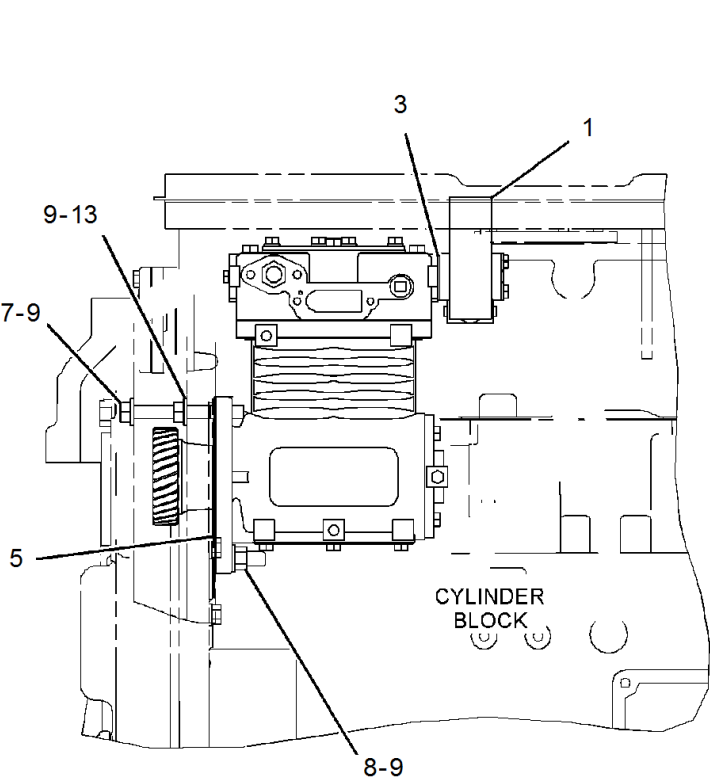
| Ref. | Part number | Description            | Qty | Code | Group page |
|------|-------------|------------------------|-----|------|------------|
| 11   | 9F-2247     | PLUG-PIPE (1/8-27-THD) | 3   |      |            |
| 12   | 5M-6214     | PLUG (1/8-27 PTF)      | 1   |      |            |
| 13   | 9X-8873     | BOLT (1/2-13X2.25-IN)  | 1   |      |            |

CAT codes: C, R, Y.

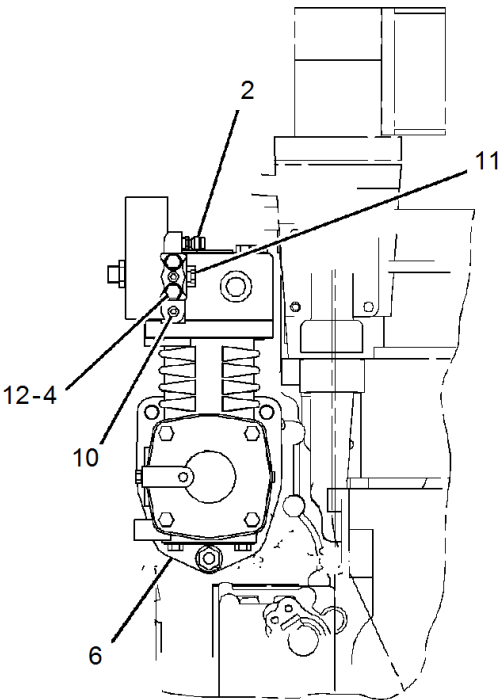
1N-2981 AIR COMPRESSOR GP

1N-2981 AIR COMPRESSOR GP S/N 6YF1-99999 PART OF 321-6313, 321-6314, 321-6316 ENGINE AR Type 2

Drawing 1 of 1



LEFT SIDE VIEW OF ENGINE



REAR VIEW OF ENGINE

| Ref.                                                              | Part number | Description                            | Qty | Code | Group page |
|-------------------------------------------------------------------|-------------|----------------------------------------|-----|------|------------|
| 1                                                                 | 1P-7125     | GOVERNOR AS-AIR COMPRESSOR             | 1   |      |            |
|                                                                   | 2S-2923     | COVER AS                               | 1   |      |            |
|                                                                   | 9M-0402     | KIT-GOVERNOR OVERHAUL (AIR COMPRESSOR) | 1   |      |            |
| (INCLUDES COVER, GROMMETS, SPRING, FILTERS, VALVE, RING & GASKET) |             |                                        |     |      |            |
| 2                                                                 | 5F-5434     | VALVE AS-VENT                          | 1   |      |            |
| 3                                                                 | 6L-1883     | GASKET                                 | 1   |      |            |
| 4                                                                 | 9M-0378     | BOLT (5/16-18X2.87-IN)                 | 2   |      |            |
| 5                                                                 | 129-3948    | SEAL-INTEGRAL                          | 1   |      |            |
| 6                                                                 | 354-7532    | AIR COMPRESSOR GP                      | 1   | YC   |            |
| 7                                                                 | 1D-4569     | BOLT (1/2-13X4.25-IN)                  | 1   |      |            |
| 8                                                                 | 1F-7958     | NUT-FULL (1/2-13-THD)                  | 1   |      |            |
| 9                                                                 | 5P-8245     | WASHER-HARD (13.5X25.5X3-MM THK)       | 3   |      |            |
| 10                                                                | 8T-6757     | PLUG-PIPE                              | 3   |      |            |

1N-2981 AIR COMPRESSOR GP (continued)

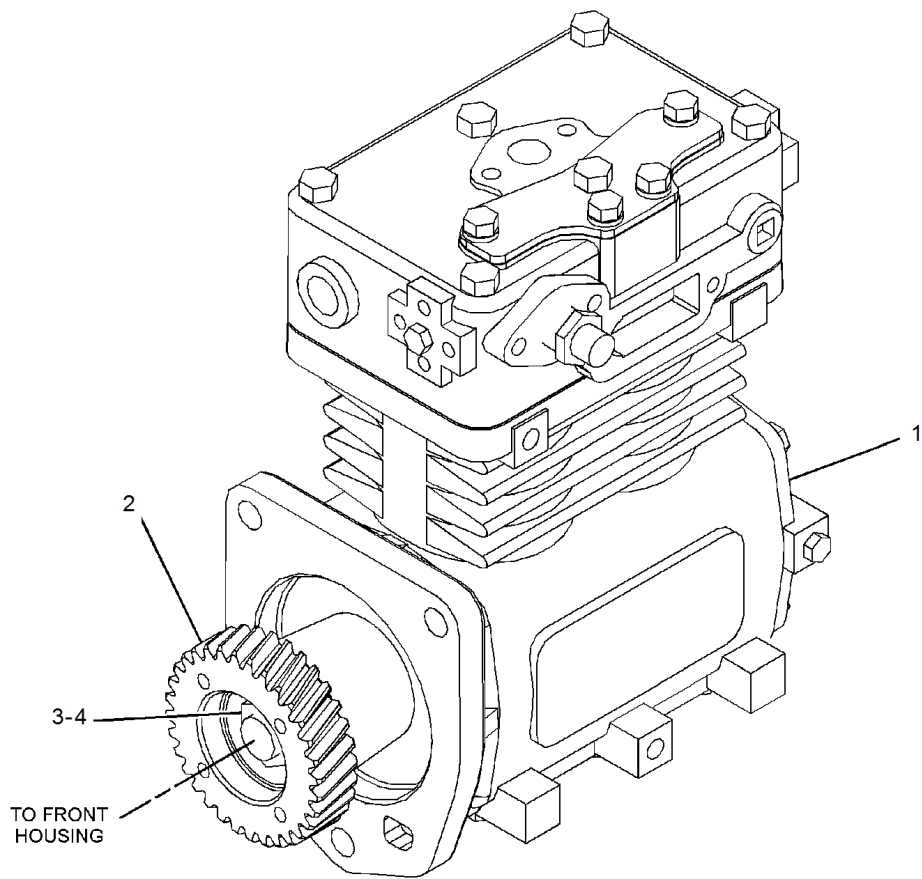
| Ref. | Part number | Description                   | Qty | Code | Group page |
|------|-------------|-------------------------------|-----|------|------------|
| 11   | 8T-6764     | PLUG-PIPE (1/8-27-THD)        | 1   |      |            |
| 12   | 9M-1974     | WASHER-HARD (8.8X16X2-MM THK) | 2   |      |            |
| 13   | 9X-8873     | BOLT (1/2-13X2.25-IN)         | 1   |      |            |

CAT codes: C, Y.

354-7532 AIR COMPRESSOR GP

354-7532 AIR COMPRESSOR GP S/N 6YF1-99999 PART OF 1N-2981, 4P-1912 AIR COMPRESSOR GP

Drawing 1 of 1



| Ref. | Part number | Description                      | Qty | Code | Group page |
|------|-------------|----------------------------------|-----|------|------------|
| 1    | 4P-0676     | AIR COMPRESSOR GP                | 1   | Y    |            |
| 2    | 7W-0140     | GEAR-DRIVE (32-TEETH)            | 1   |      |            |
| 3    | 5P-8248     | WASHER-HARD (20X36.5X3.5-MM THK) | 1   |      |            |
| 4    | 6B-6682     | NUT-FULL (3/4-16-THD)            | 1   |      |            |

CAT codes: R, Y.

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