

# CATERPILLAR 627B

14S / SEBP1014

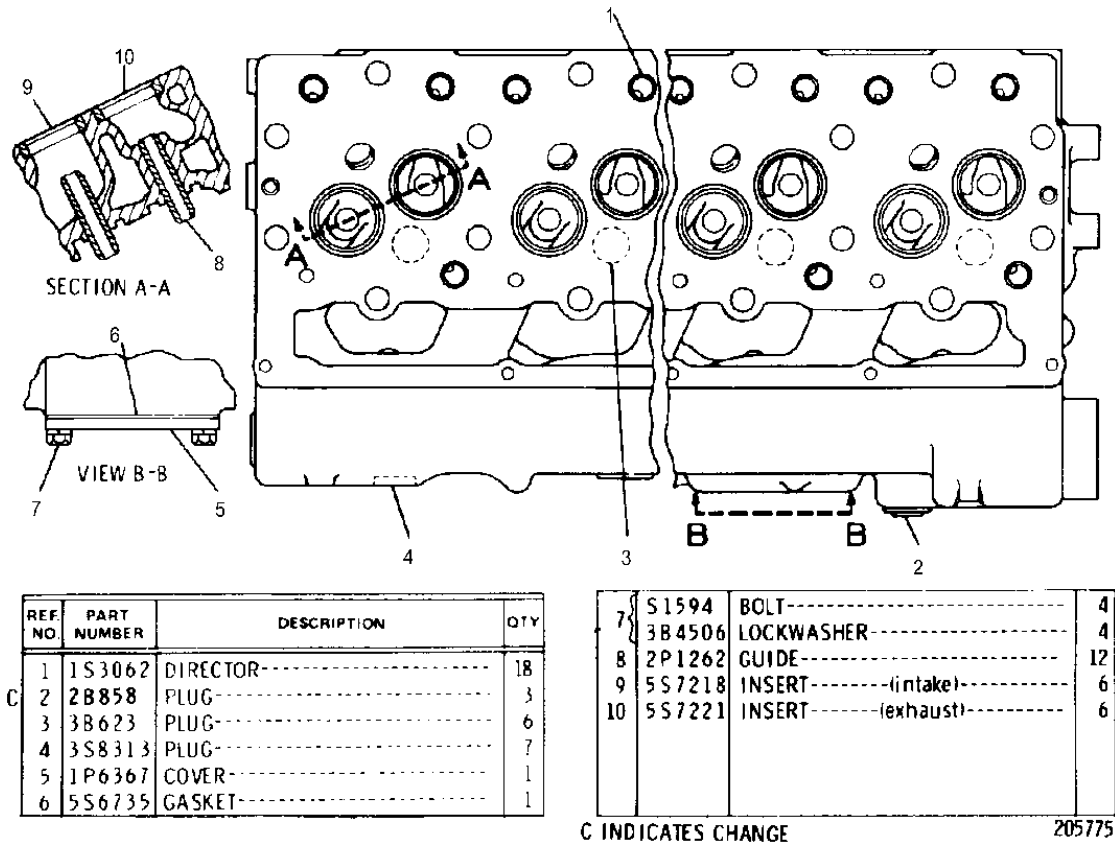
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| Basic engine               |      |
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| Air inlet and exhaust      |      |
| Fuel system                |      |
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4N-7446 CYLINDER HEAD AS

4N7446 CYLINDER HEAD ASSEMBLY Part of 2P9573 Normalizing Arrangement and 2P6476, 2P6486, 2P6496 and 6N1879 Cylinder Head Groups shown on Pages 41 through 44

Drawing 1 of 1



| Ref. | Part number | Description      | Qty | Code | Group page |
|------|-------------|------------------|-----|------|------------|
| 1    | 1S-3062     | DIRECTOR         | 18  |      |            |
| 2    | 2B-0858     | PLUG             | 3   | C    |            |
| 3    | 3B-0623     | PLUG             | 6   |      |            |
| 4    | 3S-8313     | PLUG             | 7   |      |            |
| 5    | 1P-6367     | COVER            | 1   |      |            |
| 6    | 5S-6735     | GASKET           | 1   |      |            |
| 7    | 0S-1594     | BOLT             | 4   |      |            |
|      | 3B-4506     | LOCKWASHER       | 4   |      |            |
| 8    | 2P-1262     | GUIDE            | 12  |      |            |
| 9    | 5S-7218     | INSERT (intake)  | 6   |      |            |
| 10   | 5S-7221     | INSERT (exhaust) | 6   |      |            |

CAT codes: C.

2P-6476 CYLINDER HEAD GP

CYLINDER HEAD (2P6476 N/S) Part of 4N7361, 4N7363, 4N7364, 1P9587 and 2P6792 Engine Arrangements 4N7446  
 Cylinder Head parts are shown on Page 40

Drawing 1 of 1

| REF. NO. | PART NUMBER | DESCRIPTION                         | QTY |
|----------|-------------|-------------------------------------|-----|
| C 1      | 5S 6449     | VALVE (Exhaust)                     | 6   |
| 2        | 2A 4429     | LOCK                                | 24  |
| 3        | 5S 5912     | RETAINER                            | 12  |
| 4        | 7S 7144     | SPRING                              | 12  |
| 5        | 5S 6795     | CHAMBER ASSEM.                      | 6   |
| 6        | 7S 3206     | SEAL                                | 6   |
| 7        | 2S 8966     | KIT (Gasket)                        | 6   |
| C 6      | 5S 6452     | VALVE (Intake)                      | 6   |
| 7        | 4N 7446     | HEAD ASSEM. (Separate Illustration) | 1   |
| 8        | 5S 6281     | GASKET                              | 1   |

C INDICATES CHANGE
 144577

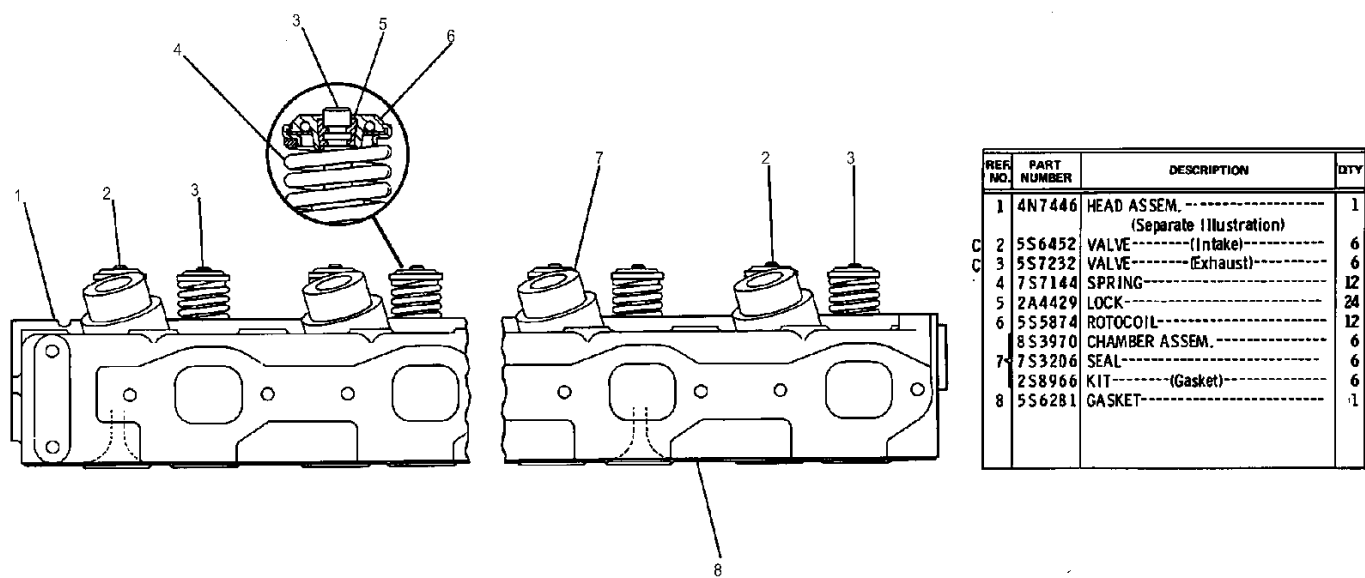
| Ref. | Part number             | Description     | Qty | Code | Group page |
|------|-------------------------|-----------------|-----|------|------------|
| 1    | 5S-6449                 | VALVE (Exhaust) | 6   | C    |            |
| 2    | 2A-4429                 | LOCK            | 24  |      |            |
| 3    | 5S-5912                 | RETAINER        | 12  |      |            |
| 4    | 7S-7144                 | SPRING          | 12  |      |            |
| 5    | 5S-6795                 | CHAMBER ASSEM.  | 6   |      |            |
|      | 7S-3206                 | SEAL            | 6   |      |            |
|      | 2S-8966                 | KIT (Gasket)    | 6   |      |            |
| 6    | 5S-6452                 | VALVE (Intake)  | 6   | C    |            |
| 7    | 4N-7446                 | HEAD ASSEM.     | 1   | Y    |            |
|      | (Separate Illustration) |                 |     |      |            |
| 8    | 5S-6281                 | GASKET          | 1   |      |            |

CAT codes: C, Y.

2P-6486 CYLINDER HEAD GP

CYLINDER HEAD (2P6486 N/S) Part of 4N3571, 4N5359, 4N7365, 4N7366, 4N7367, 4N7368, 4N7369, 4N7370, 4N7371, 4N7372, 4N7373, 6N482, 6N484, 6N486, 6N488, 2P9637 and 3P75 Engine Arrangements. 4N7446 Cylinder Head parts are shown on Page 40

Drawing 1 of 1



C INDICATES CHANGE
144578

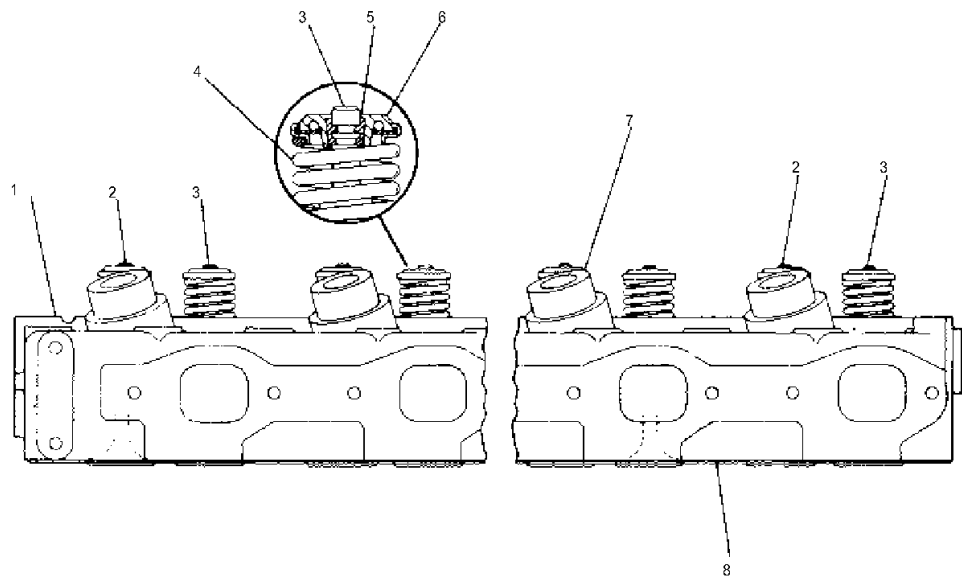
| Ref. | Part number | Description             | Qty | Code | Group page |
|------|-------------|-------------------------|-----|------|------------|
| 1    | 4N-7446     | HEAD ASSEM.             | 1   | Y    |            |
|      |             | (Separate Illustration) |     |      |            |
| 2    | 5S-6452     | VALVE (Intake)          | 6   | C    |            |
| 3    | 5S-7232     | VALVE (Exhaust)         | 6   | C    |            |
| 4    | 7S-7144     | SPRING                  | 12  |      |            |
| 5    | 2A-4429     | LOCK                    | 24  |      |            |
| 6    | 5S-5874     | ROTOCOIL                | 12  |      |            |
| 7    | 8S-3970     | CHAMBER ASSEM.          | 6   |      |            |
|      | 7S-3206     | SEAL                    | 6   |      |            |
|      | 2S-8966     | KIT (Gasket)            | 6   |      |            |
| 8    | 5S-6281     | GASKET                  | 1   |      |            |

CAT codes: C, Y.

2P-6496 CYLINDER HEAD GP

CYLINDER HEAD (2P6496 N/S) Part of 4N4439, 4N7374, 4N7376 and 4N7377 Engine Arrangements 4N7446 Cylinder Head parts are shown on Page 40

Drawing 1 of 1



| ITEM | PART NO | DESCRIPTION                                 | QTY. |
|------|---------|---------------------------------------------|------|
| 1    | 4N7446  | HEAD ASSEM. ....<br>(Separate Illustration) | 1    |
| C 2  | 7S8809  | VALVE (Intake) ....                         | 6    |
| C 3  | 7S6767  | VALVE (Exhaust) ....                        | 6    |
| 4    | 7S7144  | SPRING ....                                 | 12   |
| 5    | 2A4429  | LOCK ....                                   | 24   |
| 6    | 5S5874  | ROTOCOIL ....                               | 12   |
| 7    | 9S8679  | CHAMBER ASSEM. ....                         | 6    |
| 8    | 7S3206  | SEAL ....                                   | 6    |
|      | 2S8966  | KIT (Gasket) ....                           | 6    |
|      | 5S6281  | GASKET ....                                 | 1    |

C INDICATES CHANGE 144679

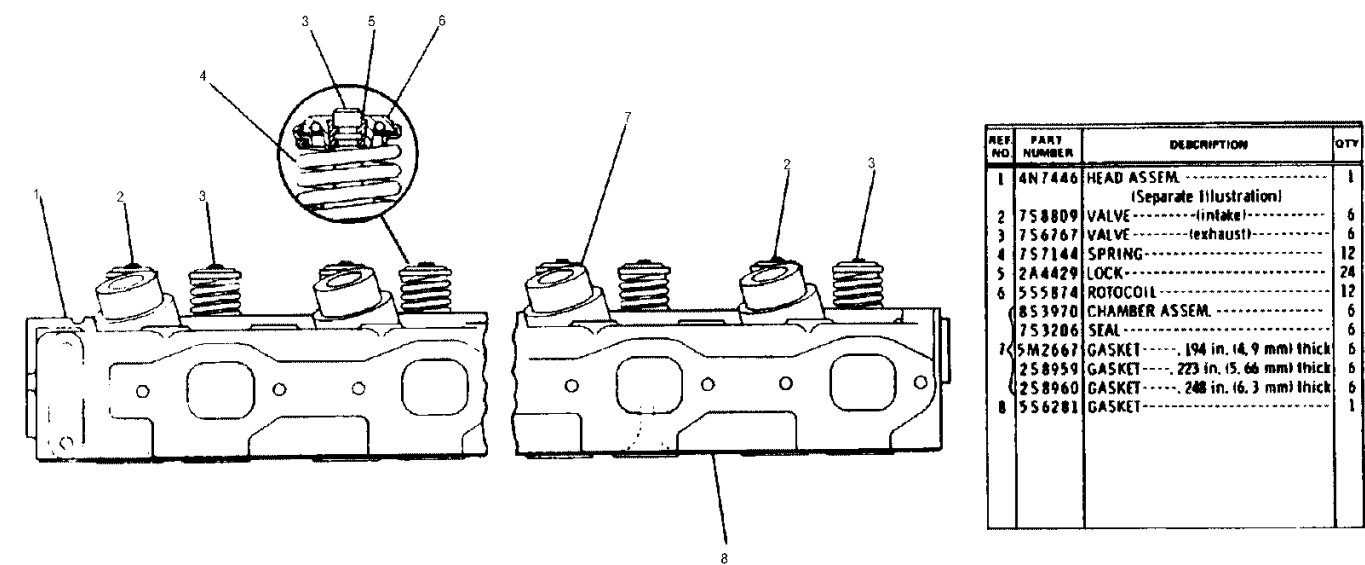
| Ref. | Part number | Description                            | Qty | Code | Group page |
|------|-------------|----------------------------------------|-----|------|------------|
| 1    | 4N-7446     | HEAD ASSEM.<br>(Separate Illustration) | 1   | Y    |            |
| 2    | 7S-8809     | VALVE (Intake)                         | 6   | C    |            |
| 3    | 7S-6767     | VALVE (Exhaust)                        | 6   | C    |            |
| 4    | 7S-7144     | SPRING                                 | 12  |      |            |
| 5    | 2A-4429     | LOCK                                   | 24  |      |            |
| 6    | 5S-5874     | ROTOCOIL                               | 12  |      |            |
| 7    | 9S-8679     | CHAMBER ASSEM.                         | 6   |      |            |
|      | 7S-3206     | SEAL                                   | 6   |      |            |
|      | 2S-8966     | KIT (Gasket)                           | 6   |      |            |
| 8    | 5S-6281     | GASKET                                 | 1   |      |            |

CAT codes: C, Y.

6N-1879 CYLINDER HEAD

CYLINDER HEAD (6N1879 N/S) Part of 4N4506, 4N4559, 4N8975 and 6N3414 Engine Arrangements 4N7446 Cylinder Head parts are shown on Page 40

Drawing 1 of 1



205044

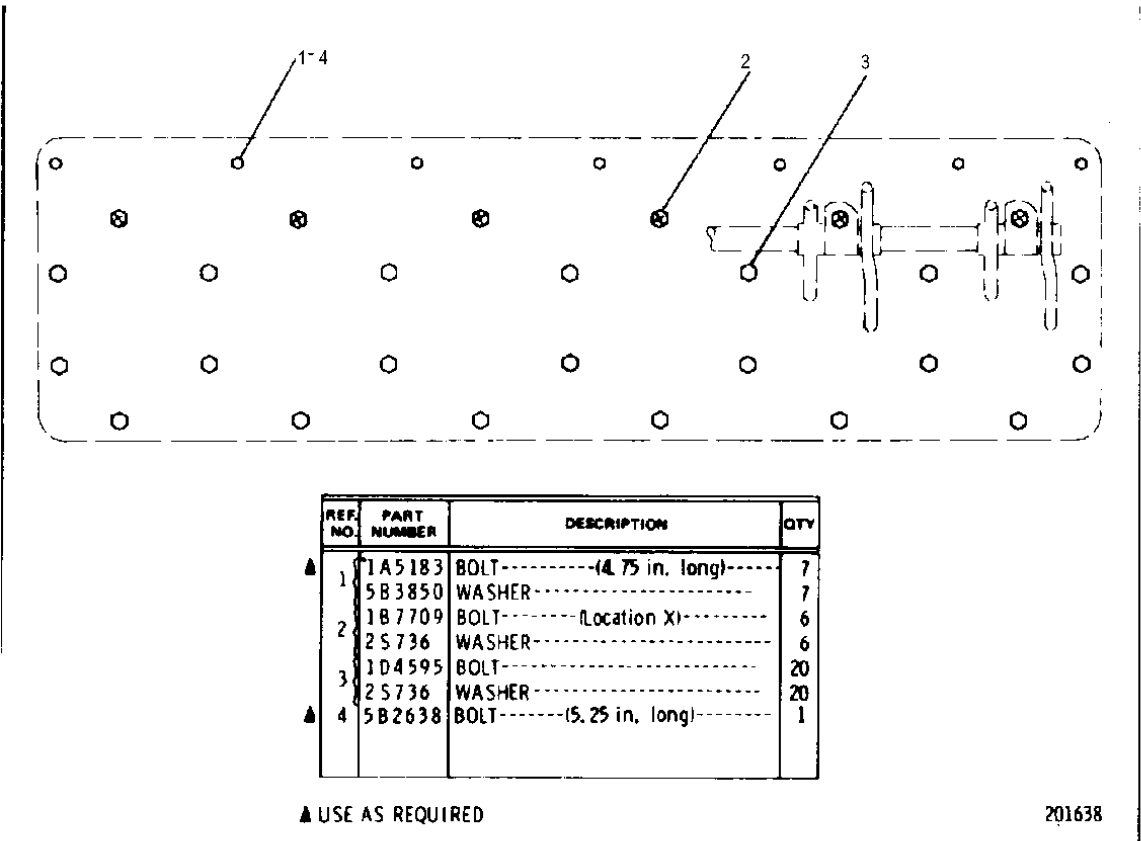
| Ref.                    | Part number | Description                     | Qty | Code | Group page |
|-------------------------|-------------|---------------------------------|-----|------|------------|
| 1                       | 4N-7446     | HEAD ASSEM.                     | 1   | Y    |            |
| (Separate Illustration) |             |                                 |     |      |            |
| 2                       | 7S-8809     | VALVE (intake)                  | 6   |      |            |
| 3                       | 7S-6767     | VALVE (exhaust)                 | 6   |      |            |
| 4                       | 7S-7144     | SPRING                          | 12  |      |            |
| 5                       | 2A-4429     | LOCK                            | 24  |      |            |
| 6                       | 5S-5874     | ROTOCOIL                        | 12  |      |            |
| 7                       | 8S-3970     | CHAMBER ASSEM.                  | 6   |      |            |
|                         | 7S-3206     | SEAL                            | 6   |      |            |
|                         | 5M-2667     | GASKET .194 in. (4.9 mm) thick  | 6   |      |            |
|                         | 2S-8959     | GASKET .223 in. (5.66 mm) thick | 6   |      |            |
|                         | 2S-8960     | GASKET .248 in. (6.3 mm) thick  | 6   |      |            |
| 8                       | 5S-6281     | GASKET                          | 1   |      |            |

CAT codes: Y.

2P-6546 FASTENER GP-CYLINDER HEAD

CYLINDER HEAD FASTENER (2P6546 N/S) Part of all Engine Arrangements

Drawing 1 of 1



| Ref. | Part number | Description          | Qty | Code | Group page |
|------|-------------|----------------------|-----|------|------------|
| 1    | 1A-5183     | BOLT (4.75 in. long) | 7   | H    |            |
|      | 5B-3850     | WASHER               | 7   |      |            |
| 2    | 1B-7709     | BOLT (Location X)    | 6   |      |            |
|      | 2S-0736     | WASHER               | 6   |      |            |
| 3    | 1D-4595     | BOLT                 | 20  |      |            |
|      | 2S-0736     | WASHER               | 20  |      |            |
| 4    | 5B-2638     | BOLT (5.25 in. long) | 1   | H    |            |

CAT codes: USE.

2P-6531 COVER GP-CYLINDER HEAD

CYLINDER HEAD COVER (2P6531 N/S) Part of 4N5359, 4N7365, 4N7366 and 4N7372 Engine Arrangements

Drawing 1 of 1

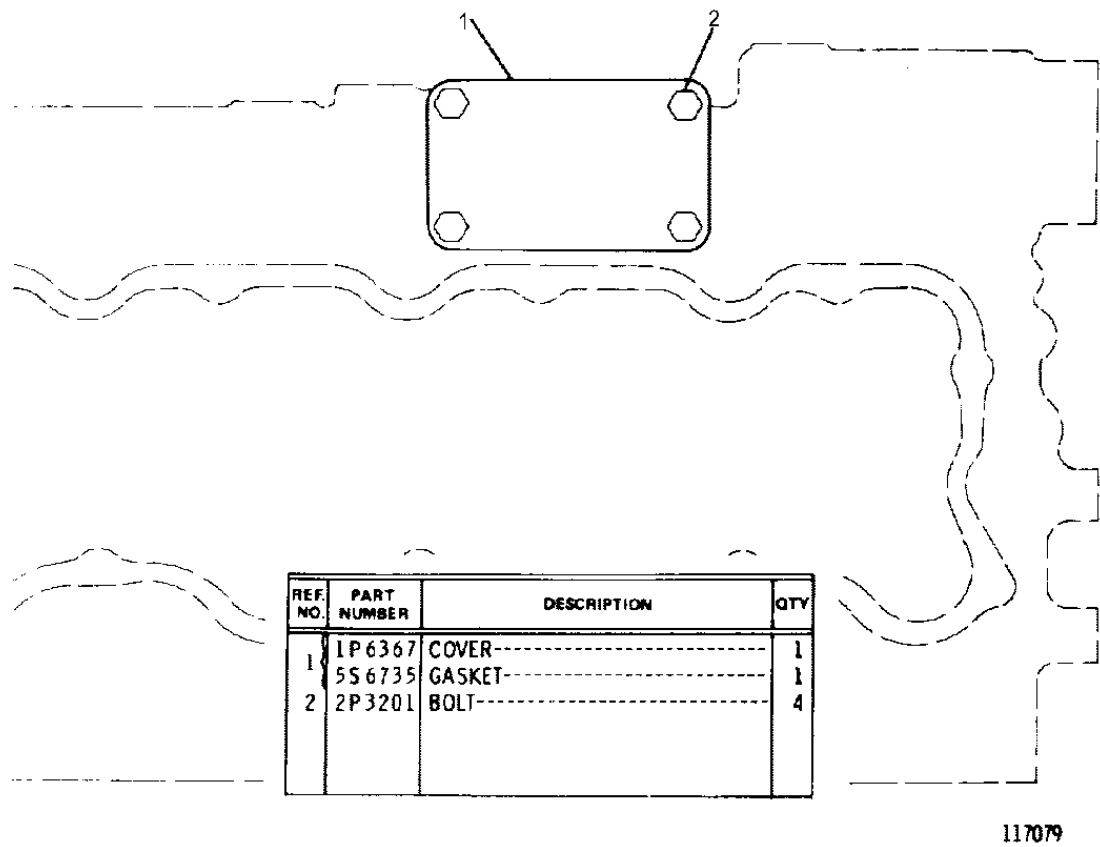


| Ref. | Part number | Description | Qty | Code | Group page |
|------|-------------|-------------|-----|------|------------|
| 1    | 1P-6758     | COVER       | 1   |      |            |
|      | 5S-6735     | GASKET      | 1   |      |            |
| 2    | 2P-3203     | BOLT        | 4   |      |            |

2P-6530 COVER GP-CYLINDER HEAD

2P6530 CYLINDER HEAD COVER GROUP Part of 4N3571, 4N4506, 4N4559, 4N7361, 4N7363, 4N7364, 4N7367, 4N7368, 4N7369, 4N7370, 4N7371, 4N7373, 4N7374, 4N7376, 4N7377, 4N8975, 6N482, 6N484, 6N486, 6N488, 6N3414, 1P9587, 2P6792, 2P9637 & 3P75 Engine Arrangements

Drawing 1 of 1



| Ref. | Part number | Description | Qty | Code | Group page |
|------|-------------|-------------|-----|------|------------|
| 1    | 1P-6367     | COVER       | 1   |      |            |
|      | 5S-6735     | GASKET      | 1   |      |            |
| 2    | 2P-3201     | BOLT        | 4   |      |            |

9N-0136 COVER GP-CYLINDER HEAD

9N136 CYLINDER HEAD COVER GROUP Part of 4N4439 Engine Arrangement

Drawing 1 of 1



| Ref. | Part number | Description | Qty | Code | Group page |
|------|-------------|-------------|-----|------|------------|
| 1    | 0S-1588     | BOLT        | 4   |      |            |
|      | 5M-2894     | WASHER      | 4   |      |            |
| 2    | 9L-5316     | COVER       | 1   |      |            |
|      | 5S-6735     | GASKET      | 1   |      |            |

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