

# CATERPILLAR D4D

07R / HEBP1078

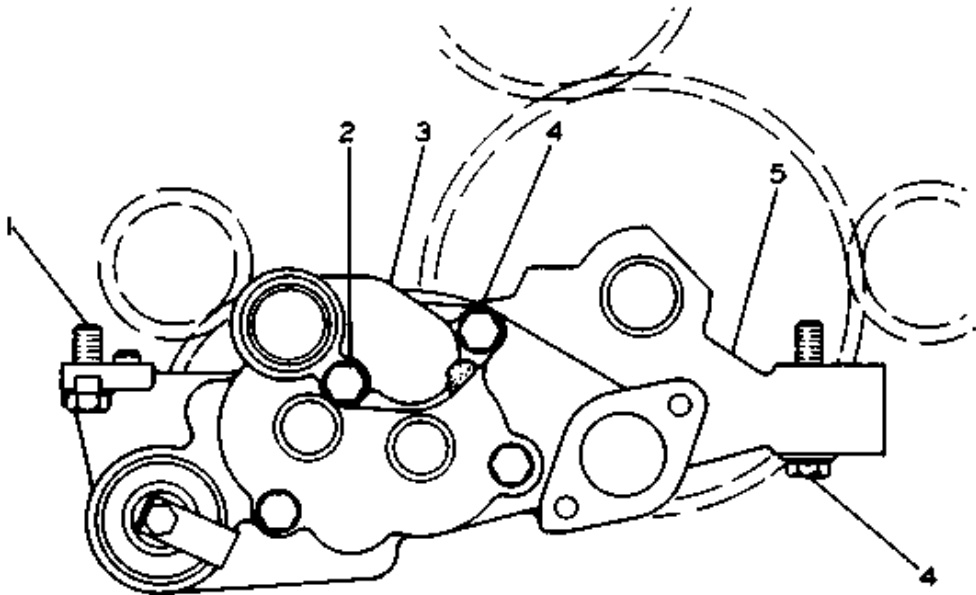
## Contents

| Section                            | Page |
|------------------------------------|------|
| <a href="#">Lubrication system</a> | 2    |
| Cooling system                     |      |
| Air inlet and exhaust              |      |
| Fuel system                        |      |
| Electrical and electronics         |      |
| Basic engine                       |      |
| Basic engine                       |      |
| Power train                        |      |
| Power train                        |      |
| Cooling system                     |      |
| Electrical and electronics         |      |
| Steering and brakes                |      |

2P-1784 PUMP GP-ENGINE OIL

2P1784 OIL PUMP GROUP Serial No. 48V1284 to 48V14664 inclusive 2P1785 Pump parts are shown on Page 30

Drawing 1 of 1



| REF. NO. | PART NUMBER | DESCRIPTION | QTY |
|----------|-------------|-------------|-----|
| 1        | 1A2029      | BOLT-----   | 2   |
|          | 8M7587      | LOCK-----   | 2   |
| 2        | 2P3210      | BOLT-----   | 1   |
|          | 4N5353      | ELBOW-----  | 1   |
| 3        | 2P8746      | GASKET----- | 1   |

|   |        |                                            |   |
|---|--------|--------------------------------------------|---|
| 4 | 2P3206 | BOLT-----                                  | 3 |
| 5 | 2P1785 | PUMP GROUP-----<br>(Separate Illustration) | 1 |

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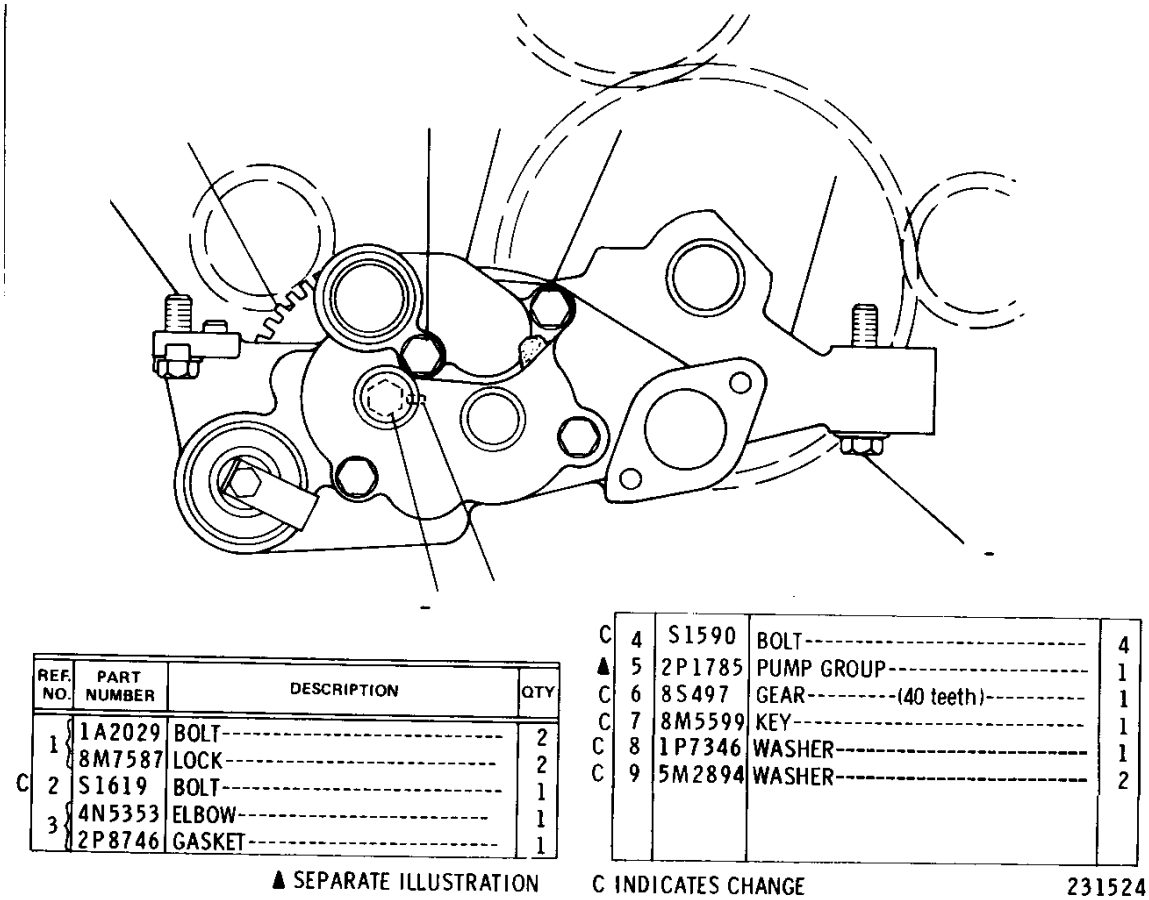
| Ref.                    | Part number | Description | Qty | Code | Group page |
|-------------------------|-------------|-------------|-----|------|------------|
| 1                       | 1A-2029     | BOLT        | 2   |      |            |
|                         | 8M-7587     | LOCK        | 2   |      |            |
| 2                       | 2P-3210     | BOLT        | 1   |      |            |
| 3                       | 4N-5353     | ELBOW       | 1   |      |            |
|                         | 2P-8746     | GASKET      | 1   |      |            |
| 4                       | 2P-3206     | BOLT        | 3   |      |            |
| 5                       | 2P-1785     | PUMP GROUP  | 1   | RY   |            |
| (Separate Illustration) |             |             |     |      |            |

CAT codes: R, Y.

2P-1784 PUMP GP-ENGINE OIL

2P1784 OIL PUMP GROUP Serial No. 48V14665-Up 2P1785 Pump parts are shown on Page 30

Drawing 1 of 1



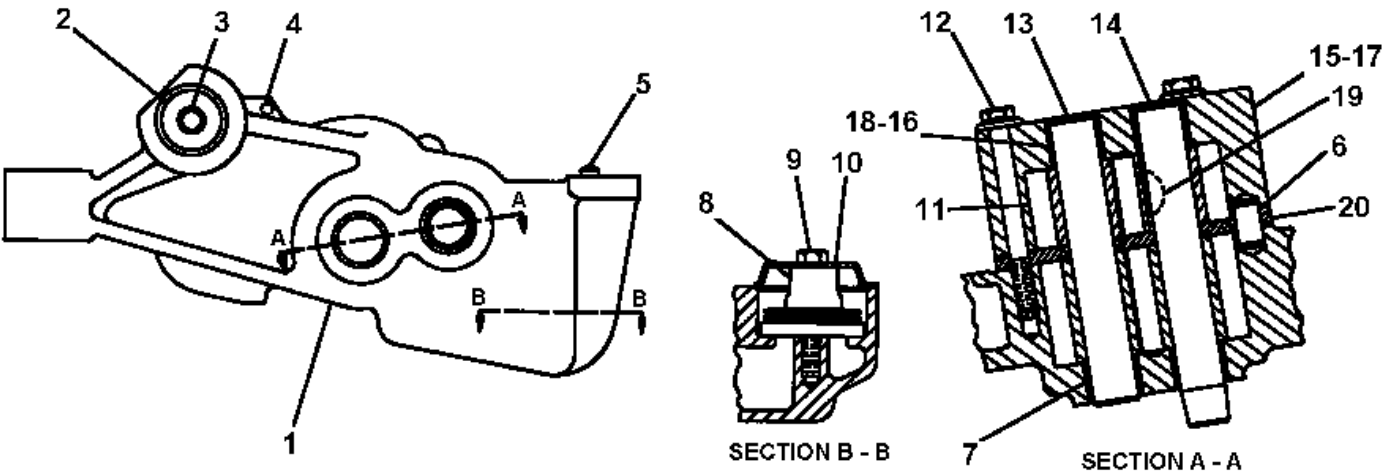
| Ref. | Part number | Description     | Qty | Code | Group page |
|------|-------------|-----------------|-----|------|------------|
| 1    | 1A-2029     | BOLT            | 2   |      |            |
|      | 8M-7587     | LOCK            | 2   |      |            |
| 2    | 0S-1619     | BOLT            | 1   | C    |            |
| 3    | 4N-5353     | ELBOW           | 1   |      |            |
|      | 2P-8746     | GASKET          | 1   |      |            |
| 4    | 0S-1590     | BOLT            | 4   | C    |            |
| 5    | 2P-1785     | PUMP GROUP      | 1   | RY   |            |
| 6    | 8S-0497     | GEAR (40 teeth) | 1   | C    |            |
| 7    | 8M-5599     | KEY             | 1   | C    |            |
| 8    | 1P-7346     | WASHER          | 1   | C    |            |
| 9    | 5M-2894     | WASHER          | 2   | C    |            |

CAT codes: R, Y, C.

2P-1785 PUMP GP-ENGINE OIL

2P1785 OIL PUMP GROUP Engine Serial No. 48V12848 to 48V28721 and 48V28770-Up Part of 2P1784 Oil Pump Group shown on Page 29

Drawing 1 of 1



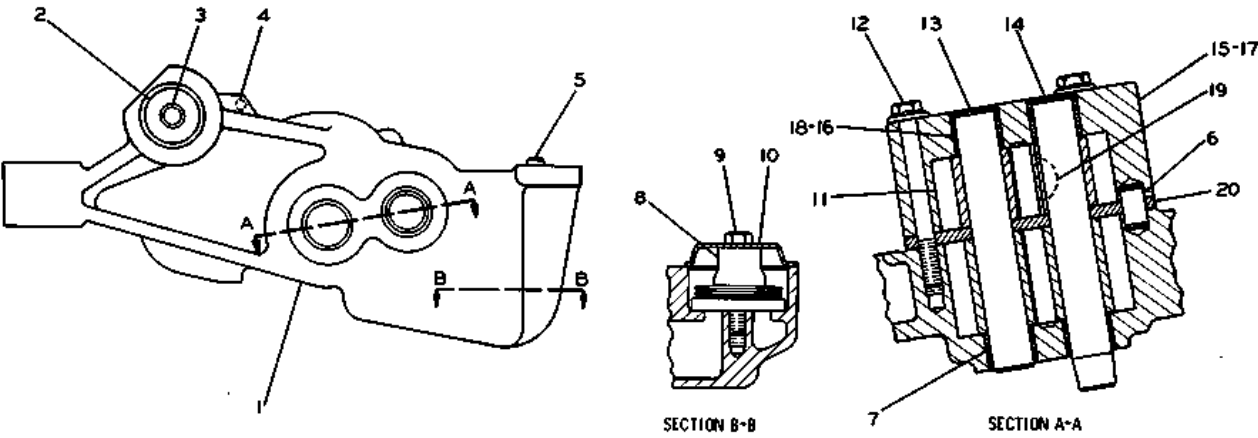
| Ref. | Part number | Description  | Qty | Code | Group page |
|------|-------------|--------------|-----|------|------------|
| 1    | 2P-0685     | BODY ASSEM.  | 1   |      |            |
| 2    | 2P-1170     | SHAFT ASSEM. | 1   |      |            |
| 3    | 4B-9782     | BALL         | 1   | C    |            |
| 4    | 4B-9880     | BALL         | 1   |      |            |
| 5    | 1F-1006     | DOWEL        | 1   |      |            |
| 6    | 1M-3735     | DOWEL        | 2   |      |            |
| 7    | 8S-6511     | BEARING      | 2   |      |            |
| 8    | 4N-8385     | VALVE ASSEM. | 1   | C    |            |
| 9    | 1B-9575     | BOLT         | 1   |      |            |
| 10   | 4N-3732     | COVER        | 1   |      |            |
| 11   | 6N-1036     | GEAR         | 2   | C    |            |
| 12   | 2P-3211     | BOLT         | 3   |      |            |
| 13   | 8S-0493     | SHAFT ASSEM. | 1   | C    |            |
| 14   | 2P-6245     | SHAFT ASSEM. | 1   |      |            |
| 15   | 6A-7802     | BODY ASSEM.  | 1   |      |            |
|      | 4N-4055     | BODY ASSEM.  | 1   |      |            |
| 16   | 8S-6511     | BEARING      | 2   |      |            |
| 17   | 2P-0681     | BODY ASSEM.  | 1   |      |            |
| 18   | 8S-6511     | BEARING      | 2   |      |            |
| 19   | 1B-8709     | KEY          | 1   |      |            |
| 20   | 2P-1781     | SPACER       | 1   |      |            |

CAT codes: C.

2P-1785 PUMP GP-ENGINE OIL

2P1785 OIL PUMP GROUP Engine Serial No. 48V28722 to 48V28769 inclusive Part of 2P1784 Oil Pump Group shown on Page 29

Drawing 1 of 1



| REF. NO. | PART NUMBER | DESCRIPTION  | QTY |
|----------|-------------|--------------|-----|
| C 1      | 2P685       | BODY ASSEM.  | 1   |
| 2        | 5C5149      | SHAFT ASSEM. | 1   |
| 3        | 4B9782      | BALL         | 1   |
| 4        | 4B9880      | BALL         | 1   |
| 5        | 1F1006      | DOWEL        | 1   |
| 6        | 1M3735      | DOWEL        | 2   |
| 7        | 8S6511      | BEARING      | 2   |

|    |        |              |   |
|----|--------|--------------|---|
| 8  | 4N8385 | VALVE ASSEM. | 1 |
| 9  | 1B9575 | BOLT         | 1 |
| 10 | 4N3732 | COVER        | 1 |
| 11 | 6N1036 | GEAR         | 2 |
| 12 | 2P3211 | BOLT         | 3 |
| 13 | 8S493  | SHAFT ASSEM. | 1 |
| 14 | 2P6245 | SHAFT ASSEM. | 1 |

|    |        |             |   |
|----|--------|-------------|---|
| 15 | 6A7802 | BODY ASSEM. | 1 |
| 16 | 4N4055 | BODY ASSEM. | 1 |
| 17 | 8S6511 | BEARING     | 2 |
| 18 | 2P681  | BODY ASSEM. | 1 |
| 19 | 8S6511 | BEARING     | 2 |
| 20 | 1B8709 | KEY         | 1 |
|    | 2P1781 | SPACER      | 1 |

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| Ref. | Part number | Description  | Qty | Code | Group page |
|------|-------------|--------------|-----|------|------------|
| 1    | 2P-0685     | BODY ASSEM.  | 1   |      |            |
| 2    | 5C-5149     | SHAFT ASSEM. | 1   | C    |            |
| 3    | 4B-9782     | BALL         | 1   |      |            |
| 4    | 4B-9880     | BALL         | 1   |      |            |
| 5    | 1F-1006     | DOWEL        | 1   |      |            |
| 6    | 1M-3735     | DOWEL        | 2   |      |            |
| 7    | 8S-6511     | BEARING      | 2   |      |            |
| 8    | 4N-8385     | VALVE ASSEM. | 1   |      |            |
| 9    | 1B-9575     | BOLT         | 1   |      |            |
| 10   | 4N-3732     | COVER        | 1   |      |            |
| 11   | 6N-1036     | GEAR         | 2   |      |            |
| 12   | 2P-3211     | BOLT         | 3   |      |            |
| 13   | 8S-0493     | SHAFT ASSEM. | 1   |      |            |
| 14   | 2P-6245     | SHAFT ASSEM. | 1   |      |            |
| 15   | 6A-7802     | BODY ASSEM.  | 1   |      |            |
|      | 4N-4055     | BODY ASSEM.  | 1   |      |            |

2P-1785 PUMP GP-ENGINE OIL (continued)

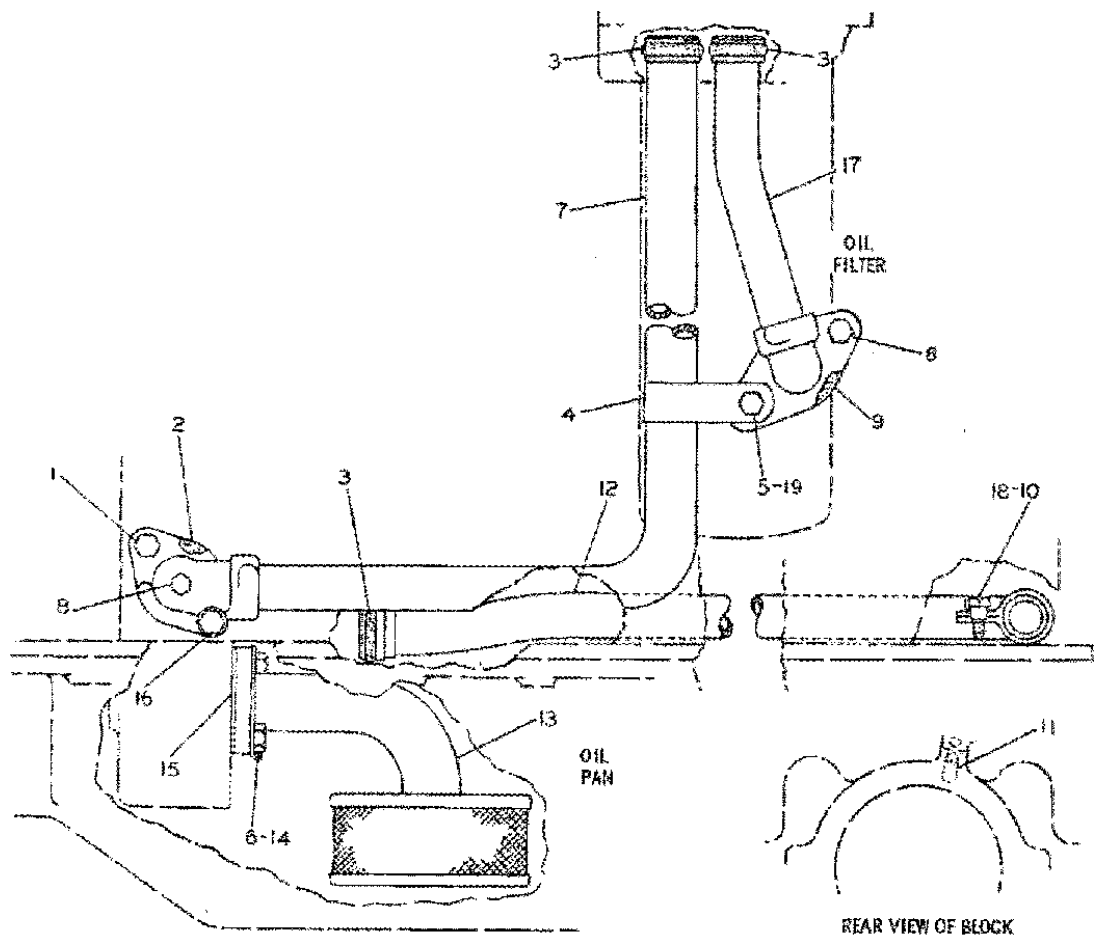
| Ref. | Part number | Description | Qty | Code | Group page |
|------|-------------|-------------|-----|------|------------|
| 16   | 8S-6511     | BEARING     | 2   |      |            |
| 17   | 2P-0681     | BODY ASSEM. | 1   |      |            |
| 18   | 8S-6511     | BEARING     | 2   |      |            |
| 19   | 1B-8709     | KEY         | 1   |      |            |
| 20   | 2P-1781     | SPACER      | 1   |      |            |

CAT codes: C.

2P-6513 LINES GP-ENGINE OIL

2P6513 OIL LINES GROUP

Drawing 1 of 1



| Ref. | Part number | Description            | Qty | Code | Group page |
|------|-------------|------------------------|-----|------|------------|
| 1    | 1A-2029     | BOLT (3/8-16X1.125-IN) | 1   |      |            |
| 2    | 2M-5407     | GASKET                 | 1   |      |            |
| 3    | 114-2687    | SEAL-O-RING            | 3   |      |            |
| 4    | 4L-3641     | CLIP                   | 1   |      |            |
| 5    | 0S-1571     | BOLT (3/8-16X1.75-IN)  | 1   |      |            |
| 6    | 0S-1594     | BOLT (3/8-16X1-IN)     | 3   |      |            |
| 7    | 8N-7318     | TUBE AS-INLET          | 1   |      |            |
| 8    | 5M-6213     | PLUG                   | 1   |      |            |
| 9    | 7F-7590     | GASKET                 | 1   |      |            |
| 10   | 4F-0029     | BOLT                   | 1   |      |            |
| 11   | 7M-4593     | PLUG                   | 4   |      |            |
| 12   | 2P-0744     | TUBE AS-PUMP           | 1   |      |            |
| 13   | 2P-1776     | BELL AS-SUCTION        | 1   |      |            |
| 14   | 8S-8874     | LOCK-NUT               | 1   |      |            |
| 15   | 8M-0904     | GASKET                 | 1   |      |            |

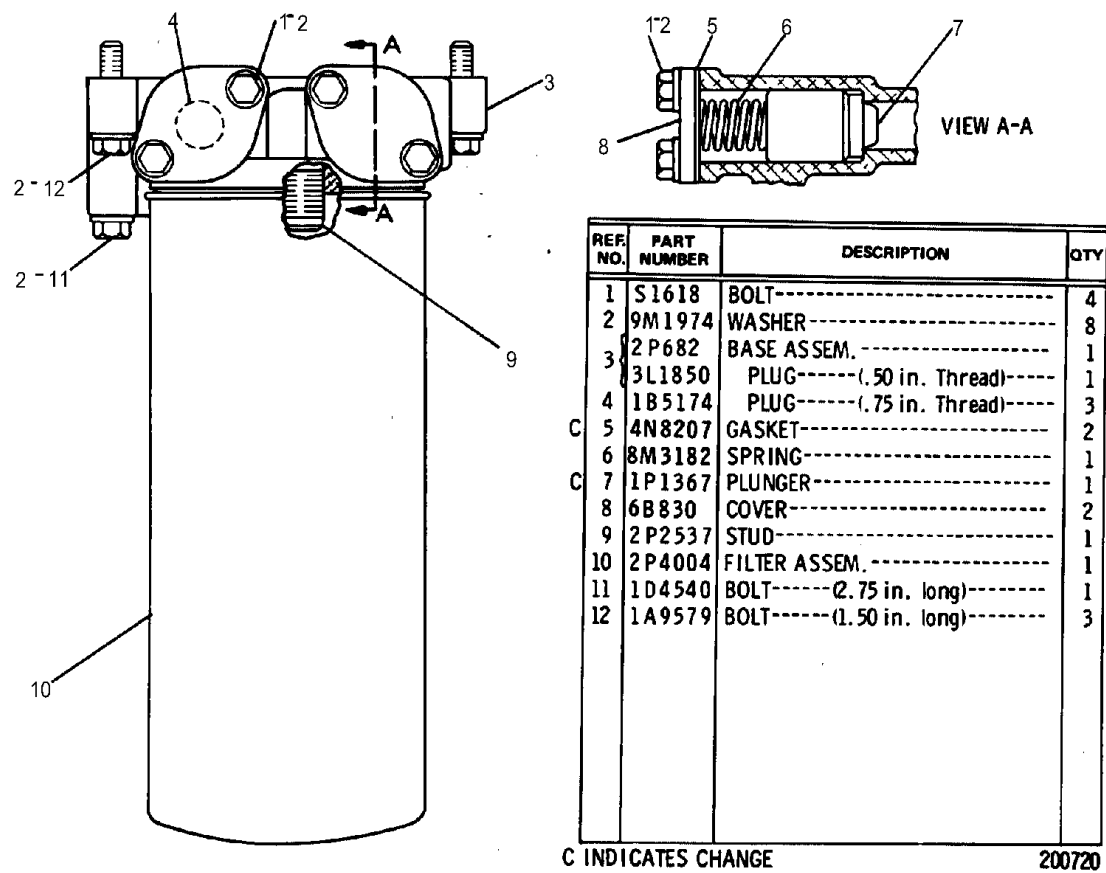
2P-6513 LINES GP-ENGINE OIL (continued)

| Ref. | Part number | Description           | Qty | Code | Group page |
|------|-------------|-----------------------|-----|------|------------|
| 16   | 0L-2070     | BOLT (3/8-16X2.25-IN) | 1   |      |            |
| 17   | 8N-7315     | TUBE AS-OUTLET        | 1   |      |            |
| 18   | 0L-0364     | LOCK                  | 1   |      |            |
| 19   | 5M-2894     | WASHER (2.5MM-THK)    | 1   |      |            |
|      | 1L-5081     | SPACER (9/16-IN THK)  | 1   |      |            |

2P-6525 FILTER GP-OIL

2P6525 OIL FILTER GROUP Engine Serial No. 48V12848 to 48V34545 inclusive

Drawing 1 of 1



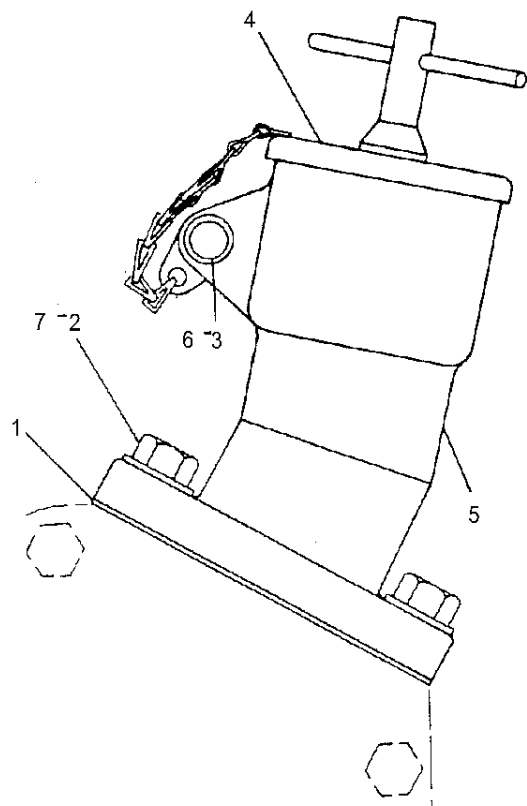
| Ref. | Part number | Description           | Qty | Code | Group page |
|------|-------------|-----------------------|-----|------|------------|
| 1    | 0S-1618     | BOLT                  | 4   |      |            |
| 2    | 9M-1974     | WASHER                | 8   |      |            |
| 3    | 2P-0682     | BASE ASSEM.           | 1   |      |            |
|      | 3L-1850     | PLUG (.50 in. Thread) | 1   |      |            |
| 4    | 1B-5174     | PLUG (.75 in. Thread) | 3   |      |            |
| 5    | 4N-8207     | GASKET                | 2   | C    |            |
| 6    | 8M-3182     | SPRING                | 1   |      |            |
| 7    | 1P-1367     | PLUNGER               | 1   | C    |            |
| 8    | 6B-0830     | COVER                 | 2   |      |            |
| 9    | 2P-2537     | STUD                  | 1   |      |            |
| 10   | 2P-4004     | FILTER ASSEM.         | 1   |      |            |
| 11   | 1D-4540     | BOLT (2.75 in. long)  | 1   |      |            |
| 12   | 1A-9579     | BOLT (1.50 in. long)  | 3   |      |            |

CAT codes: C.

2P-6855 FILLER GP-OIL

2P6855 OIL FILLER GROUP

Drawing 1 of 1



| Ref. | Part number | Description     | Qty | Code | Group page |
|------|-------------|-----------------|-----|------|------------|
| 1    | 2P-2720     | GASKET          | 1   |      |            |
| 2    | 1A-2029     | BOLT            | 2   | C    |            |
| 3    | 9M-5732     | RIVET-POP       | 1   |      |            |
| 4    | 6N-2985     | CAP AS-FILLER   | 1   | C    |            |
| 5    | 2P-2719     | PIPE-OIL FILLER | 1   |      |            |
| 6    | 2A-3211     | WASHER          | 1   |      |            |
| 7    | 5M-2894     | WASHER          | 2   | C    |            |

CAT codes: C.

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