

# CATERPILLAR D7G

91V / SEBP2747

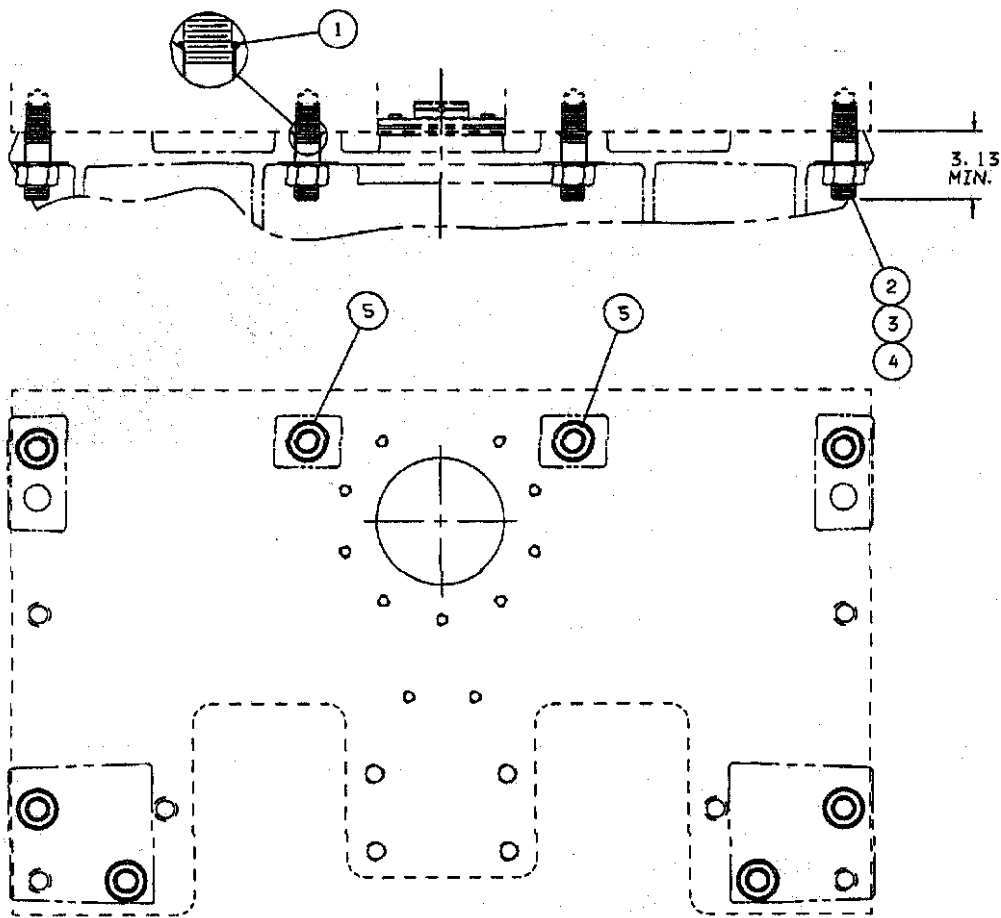
## Contents

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MOUNTING GROUP

Mounting Group

Drawing 1 of 1

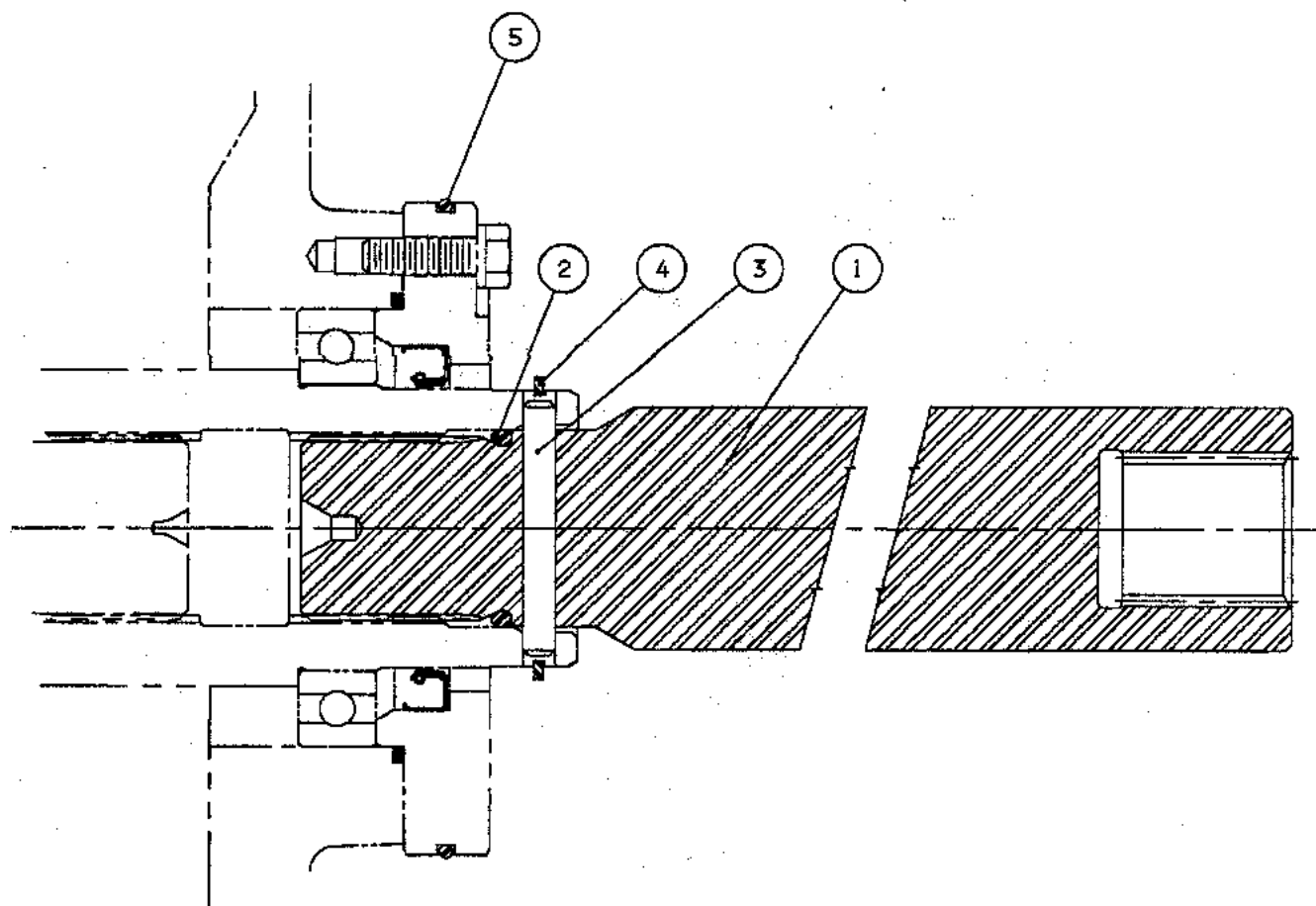


| Ref. | Part number | Description                 | Qty | Code | Group page |
|------|-------------|-----------------------------|-----|------|------------|
| 1    | 5M-7423     | O-RING                      | 2   |      |            |
| 2    | 135-1934    | STUD (1 1/4-7-3A GRD8)      | 8   |      |            |
| 3    | 7X-0451     | NUT, HEX (1 1/4 - 7 NC GD8) | 6   |      |            |
| 4    | 4K-0684     | WASHER, HARDENED (1 1/4)    | 8   |      |            |
| 5    | 2J-5997     | LOCKNUT                     | 2   |      |            |

DRIVE GROUP

Drive Group

Drawing 1 of 1

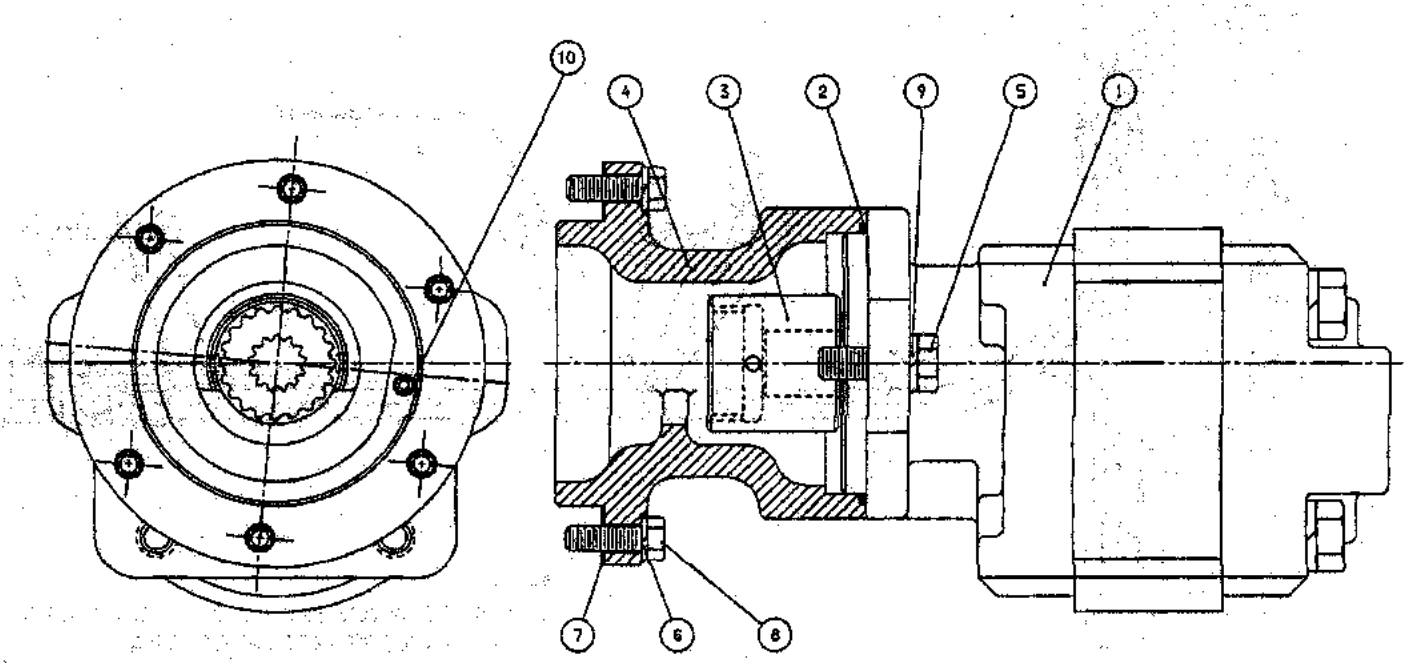


| Ref. | Part number | Description     | Qty | Code | Group page |
|------|-------------|-----------------|-----|------|------------|
| 1    | 135-1959    | INPUT SHAFT     | 1   |      |            |
| 2    | 119-1549    | O-RING          | 1   |      |            |
| 3    | 1D-4078     | PIN             | 1   |      |            |
| 4    | 1T-0649     | RING, RETAINING | 1   |      |            |
| 5    | 1S-4974     | O-RING          | 1   |      |            |

PUMP GROUP

Pump Group

Drawing 1 of 1

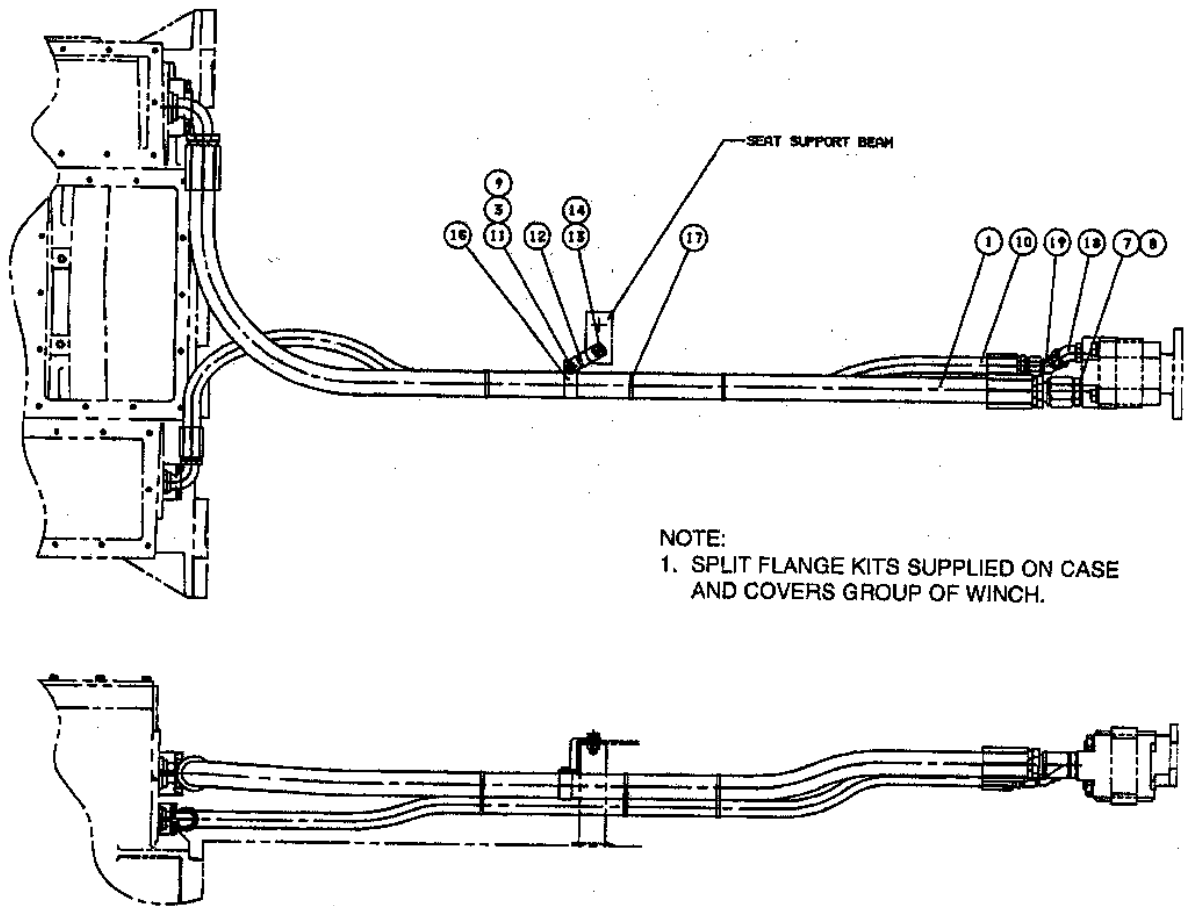


| Ref. | Part number | Description                          | Qty | Code | Group page |
|------|-------------|--------------------------------------|-----|------|------------|
| 1    | 135-3179    | PUMP, HYDRAULIC (SHAFT SEAL 102-165) | 1   |      |            |
| 2    | 1H-6227     | O-RING                               | 1   |      |            |
| 3    | 135-1961    | COUPLING                             | 1   |      |            |
| 4    | 135-1960    | HOUSING, ADAPTER                     | 1   |      |            |
| 5    | 5P-2566     | CAPSCREW (1/2-13 X 1 1/2, GD8Z, HEX) | 2   |      |            |
| 6    | 8T-4896     | WASHER, HARDENED (3/8Z)              | 6   |      |            |
| 7    | 9M-0673     | GASKET                               | 1   |      |            |
| 8    | 9B-7237     | CAPSCREW (3/8-16 X 1 1/4, GD8Z, HEX) | 6   |      |            |
| 9    | 8T-4223     | WASHER, HARDENED (1/2Z)              | 2   |      |            |
| 10   | 135-7361    | PIPE PLUG (1/16-27)                  | 1   |      |            |

PUMP LINES GROUP

Pump Lines Group

Drawing 1 of 1



| Ref. | Part number | Description                          | Qty | Code | Group page |
|------|-------------|--------------------------------------|-----|------|------------|
| 1    | 135-3180    | HOSE ASSEMBLY                        | 1   |      |            |
| 3    | 8T-4896     | WASHER-HARDENED (3/8Z)               | 1   |      |            |
| 7    | 031-8759    | CONNECTOR                            | 1   |      |            |
| 8    | 2S-4078     | O-RING                               | 1   |      |            |
| 9    | 9S-8752     | NUT, HEX (3/8 - 16)                  | 1   |      |            |
| 10   | 135-3178    | HOSE ASSEMBLY                        | 1   |      |            |
| 11   | 5S-7379     | CAPSCREW (3/8-16 X 7/8, GD8Z, HEX)   | 1   |      |            |
| 12   | 3P-7108     | BRACKET                              | 1   |      |            |
| 13   | 8T-8917     | CAPSCREW (1/2-13 X 1 1/4, GD8Z, HEX) | 1   |      |            |
| 14   | 8T-4223     | WASHER-HARDENED (1/2Z)               | 1   |      |            |
| 16   | 7L-6326     | CLIP                                 | 1   |      |            |
| 17   | 7K-1181     | STRAP                                | 3   |      |            |
| 18   | 030-7944    | ELBOW, 45 (-12 JIC)                  | 1   |      |            |
| 19   | 030-7965    | ELBOW, 45 (-12 JIC)                  | 1   |      |            |

MOUNTING GROUP

Mounting Group

Drawing 1 of 1

INSTRUCTIONS:

Note: Remove operators seat and floor panels (Refer to appropriate tractor service manual).

- 1. PTO rotation is counterclockwise (CCW) as viewed from rear of tractor.
- 2. Remove tractor PTO cover.
- 3. Remove paint, rust, dirt and grease from mounting surfaces of tractor and winch.
- 4. Apply Loc-tite 271, or equivalent, to studs, item 2, and install to elevation shown.
- 5. Install input shaft, item 5, on winch utilizing o-ring, pin and retaining ring, items 6, 7 and 8. Coat o-ring with oil prior to installation. Coat splines with molybdenum disulfide grease prior to installation.

⚠ WARNING ⚠

Winch weighs approximately 3,650 lbs. (1,706 kg) without oil or wire rope. Make certain that lifting equipment has adequate capacity. Failure to use adequate lifting equipment may result in property damage, personal injury, or death.

- 6. Install o-rings, item 1, page 2, on upper inboard studs as shown.
- 7. Install winch onto studs, item 2, page 2. Install nuts and washers utilizing Loc-tite 242. Torque nuts to 1200 lb-ft (1610 N-m).
- 8. Remove cover and gasket, P/Ns 9M672 and 9M673, from tractor accessory drive (Refer to appropriate tractor service manual).

- 9. Refer to page 4 for steps 9 thru 11. Install adapter, item 4, onto tractor accessory drive with gasket, item 7, and fasteners, items 6 and 8. Install plug, item 10, into adapter housing.
- 10. Install coupling, item 3, onto accessory drive shaft.
- 11. Install o-ring, item 2, onto pilot of hydraulic pump, item 1. Install pump onto adapter and attach with fasteners, items 5 and 9. Coat o-ring with oil prior to installation.
- 12. Install suction hose, item 1, page 5 between winch and pump. Attach suction hose to pump end utilizing connection and o-ring, item 7 and 8, page 5. Attach suction hose to winch utilizing split flange kit, item 9, page 9. Coat o-rings with oil prior to installation. Install hose loosely at pump end.
- 13. Install pressure hose, item 10, page 5, between winch and pump. Attach pressure hose to pump end utilizing elbows, items 18 and 19, page 5. Attach pressure hose to winch utilizing elbows, items 18 and 19, page 5. Attach pressure hose to winch utilizing split flange kit, item 6, page 9. Coat o-rings with oil prior to installation. Install hose loosely at pump end.
- 14. Secure hoses with straps, clamps and hardware, items 3, 9, 11, 12, 13, 14, 16 and 17, as shown.

⚠ CAUTION ⚠

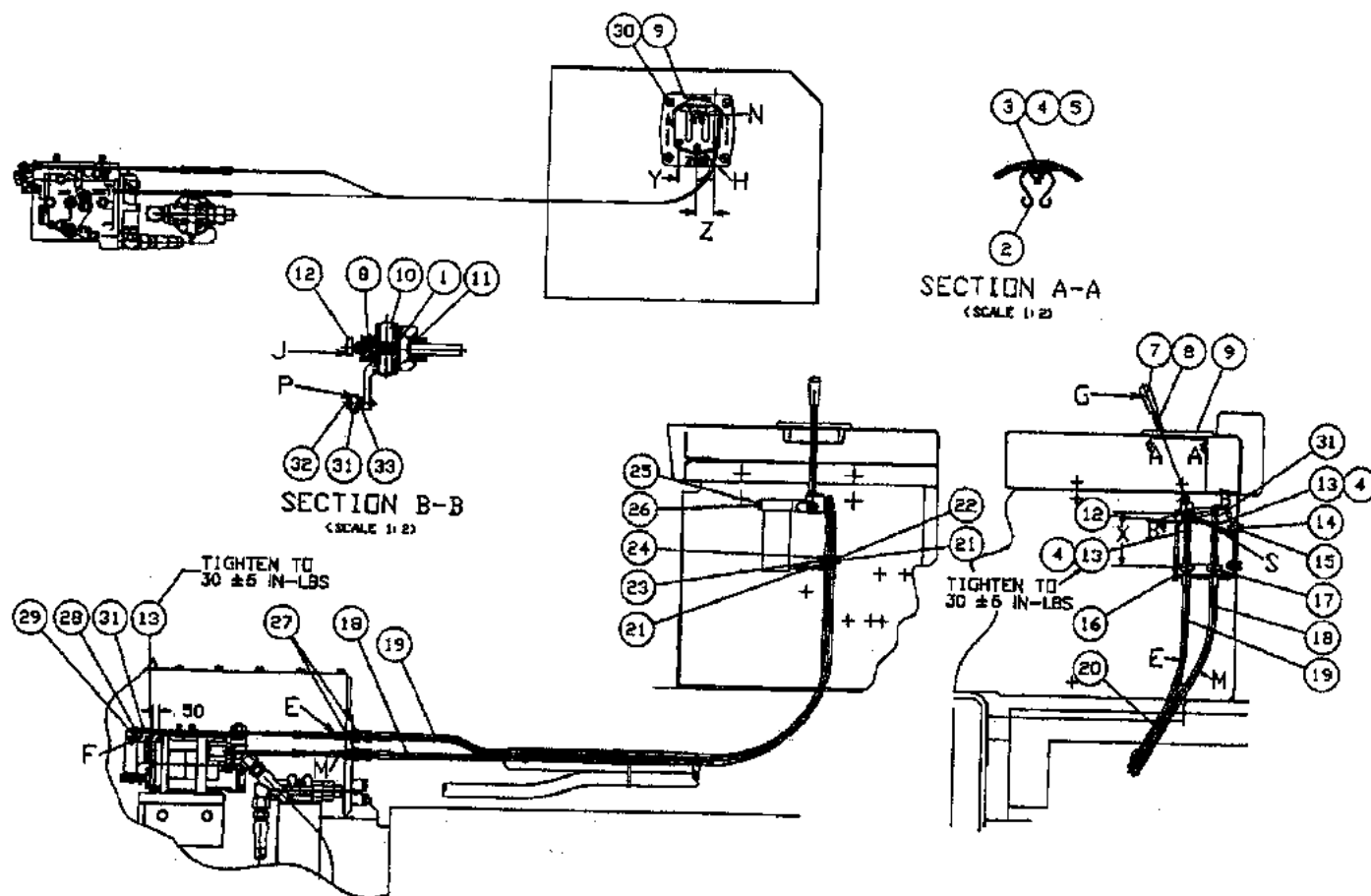
Fill winch to proper level with recommended oil **BEFORE** operating. Component damage may occur if winch is operated without oil.

| Ref.                                                                      | Part number | Description | Qty | Code | Group page |
|---------------------------------------------------------------------------|-------------|-------------|-----|------|------------|
| Parts list rows are not synced on this VPS for SEBP2747/SEBP27470005 yet. |             |             |     |      |            |

## CONTROL GROUP

Control Group

Drawing 1 of 1



| Ref. | Part number | Description                   | Qty | Code | Group page |
|------|-------------|-------------------------------|-----|------|------------|
| 1    | 2H-2525     | PIN, SPRING                   | 1   |      |            |
| 2    | 3P-5938     | SPRING                        | 1   |      |            |
| 3    | 4B-1284     | SCREW, MACHINE                | 1   |      |            |
| 4    | 3B-4504     | LOCKWASHER (1/4 SPLIT SPRING) | 3   |      |            |
| 5    | 6V-8185     | NUT, HEX                      | 1   |      |            |
| 7    | 7M-0706     | KNOB                          | 1   |      |            |
| 8    | 6P-6033     | LEVER ASSEMBLY                | 1   |      |            |
|      | 6P-6034     | LEVER ASSEMBLY                | 1   |      |            |
|      | 9B-8855     | BLOCK                         | 1   |      |            |
| 9    | 6P-5661     | GUIDE                         | 1   |      |            |
| 10   | 2P-6008     | SHAFT                         | 1   |      |            |
| 11   | 2P-6001     | BELLCRANK ASSEMBLY            | 1   |      |            |
|      | 2P-6000     | SLEEVE, BEARING               | 1   |      |            |
|      | 9H-2400     | SHAFT                         | 2   |      |            |
|      | 2P-6009     | ROD END                       | 1   |      |            |

**CONTROL GROUP** (continued)

| Ref.                                       | Part number | Description                                    | Qty | Code | Group page |
|--------------------------------------------|-------------|------------------------------------------------|-----|------|------------|
| 12                                         | 8S-7048     | ROD END                                        | 1   |      |            |
| 13                                         | 6F-0612     | NUT, JAM                                       | 3   |      |            |
| 14                                         | 4L-6454     | CAPSCREW (3/8-16X1, GD8Z)                      | 4   |      |            |
| 15                                         | 5M-2894     | WASHER, HARDENED (3/8)                         | 4   |      |            |
| 16                                         | 6P-5204     | BRACKET ASSEMBLY                               | 1   |      |            |
|                                            | 9H-2400     | SLEEVE, BEARING                                | 2   |      |            |
|                                            | 6P-6028     | BRACKET ASSEMBLY                               | 1   |      |            |
|                                            | 6P-6030     | PLATE                                          | 1   |      |            |
|                                            | 1F-0750     | NUT                                            | 4   |      |            |
|                                            | 2P-6006     | BAR                                            | 1   |      |            |
|                                            | 2P-8360     | PLATE                                          | 1   |      |            |
|                                            | 2P-6029     | BRACKET                                        | 1   |      |            |
| 17                                         | 9G-9979     | CLAMP                                          | 2   |      |            |
| 18                                         | 135-1957    | CABLE ASSEMBLY                                 | 1   |      |            |
| 19                                         | 135-1958    | CABLE ASSEMBLY                                 | 1   |      |            |
| 20                                         | 8L-8413     | STRAP                                          | 3   |      |            |
| 21                                         | 1A-9579     | CAPSCREW (5/16 - 18 NC X 1 1/2 GD5, HEX)       | 2   |      |            |
| 22                                         | 4B-4277     | WASHER (5/16)                                  | 2   |      |            |
| 23                                         | 3B-4505     | LOCKWASHER (5/16, SPLIT SPRING)                | 2   |      |            |
| 24                                         | 5S-0003     | NUT, HEX (5/16 - 18)                           | 2   |      |            |
| 25                                         | 4B-4278     | WASHER (3/8)                                   | 1   |      |            |
| 26                                         | 3K-6060     | NUT, HEX (3/8 - 16, PLASTIC INSERT)            | 1   |      |            |
| CABLE ASSEMBLY GROUP (PACCAR PART # 62656) |             |                                                |     |      |            |
| CONSISTING OF FOLLOWING:                   |             |                                                |     |      |            |
|                                            | 119-2209    | ADJUSTER                                       | 1   |      |            |
|                                            | 1D-5120     | NUT                                            | 1   |      |            |
|                                            | 5H-8853     | O-RING                                         | 1   |      |            |
|                                            | 3K-9042     | RETAINING RING                                 | 2   |      |            |
| WASHER, SEALING (PACCAR PART # 25114)      |             |                                                |     |      |            |
| 28                                         | 8T-8908     | CAPSCREW (1/2 - 20 X 1, GD8)                   | 1   |      |            |
| 29                                         | 6D-8554     | NUT, ELASTIC STOP                              | 1   |      |            |
| 30                                         | 0S-4594     | CAPSCREW, FLAT SOCKET HEAD (3/8 - 16 X 1, GD5) | 4   |      |            |
| 31                                         | 6L-7751     | ROD END                                        | 2   |      |            |
| 32                                         | 0S-1597     | CAPSCREW (1/4 - 28 NF X 1, GD8, HEX)           | 1   |      |            |
| 33                                         | 9S-8748     | NUT, HEX (1/4 - 28)                            | 1   |      |            |

## CONTROL GROUP

### Control Group

Drawing 1 of 2

#### INSTRUCTIONS:

1. Remove RH tractor front and top console covers (refer to appropriate tractor service manual).
2. Preassemble bracket assembly, item 16, and lever assembly, item 8, with washer and nut, items 25 and 26.
3. Install preassembled control stand to tractor with fasteners, items 14 and 15.
4. Install RH tractor console cover (refer to appropriate tractor service manual).
5. Install control stand guide, item 9, to console cover with fasteners, item 30. Install control stand knob, item 7.
6. Remove RH winch top cover.
7. Preassemble end "F" of cable "E", item 19, with rod-end, item 31, and nut, item 13. Leave 0.5 in. (12.7 mm) of thread exposed. Ensure that jam nut, item 27, is installed on cable.
8. Insert cable through inboard threaded hole in winch. Attach rod-end to winch with fasteners, items 28 and 29. Secure jam nut, item 27, against winch case.
9. Assemble rod-end, item 12, onto cable end "J".
10. Attach cable sheath to control stand with clamp, item 17, and fasteners 21, 23 and 24.
11. Position control lever "G" at position "H". Assemble cable end "J" onto control stand as shown.
12. Adjust "X" dimension of cable "E" such that "Y" and "Z" dimensions are equal.
13. Insert cable "M", item 18, through outboard threaded hole in winch. Insert cable into valve.
14. Preassemble control end of cable M with rod-end, jam nut, and lockwasher, items 31, 13 and 4.
15. Attach control cable sheath to control stand with clamp, item 17.



Fill winch to proper level with recommended oil **BEFORE** starting tractor. Bearing and gear damage may result if tractor or winch is run without oil.

16. Remove hoses from winch hydraulic pump and fill with hydraulic oil. Reattach hoses.
17. Start tractor and operator at idle. Following a short warm-up, operate tractor at half-throttle.
18. Install 0-500 psi (0-3445 kPa) gauge in control valve brake pressure tap.

Drawing 2 of 2

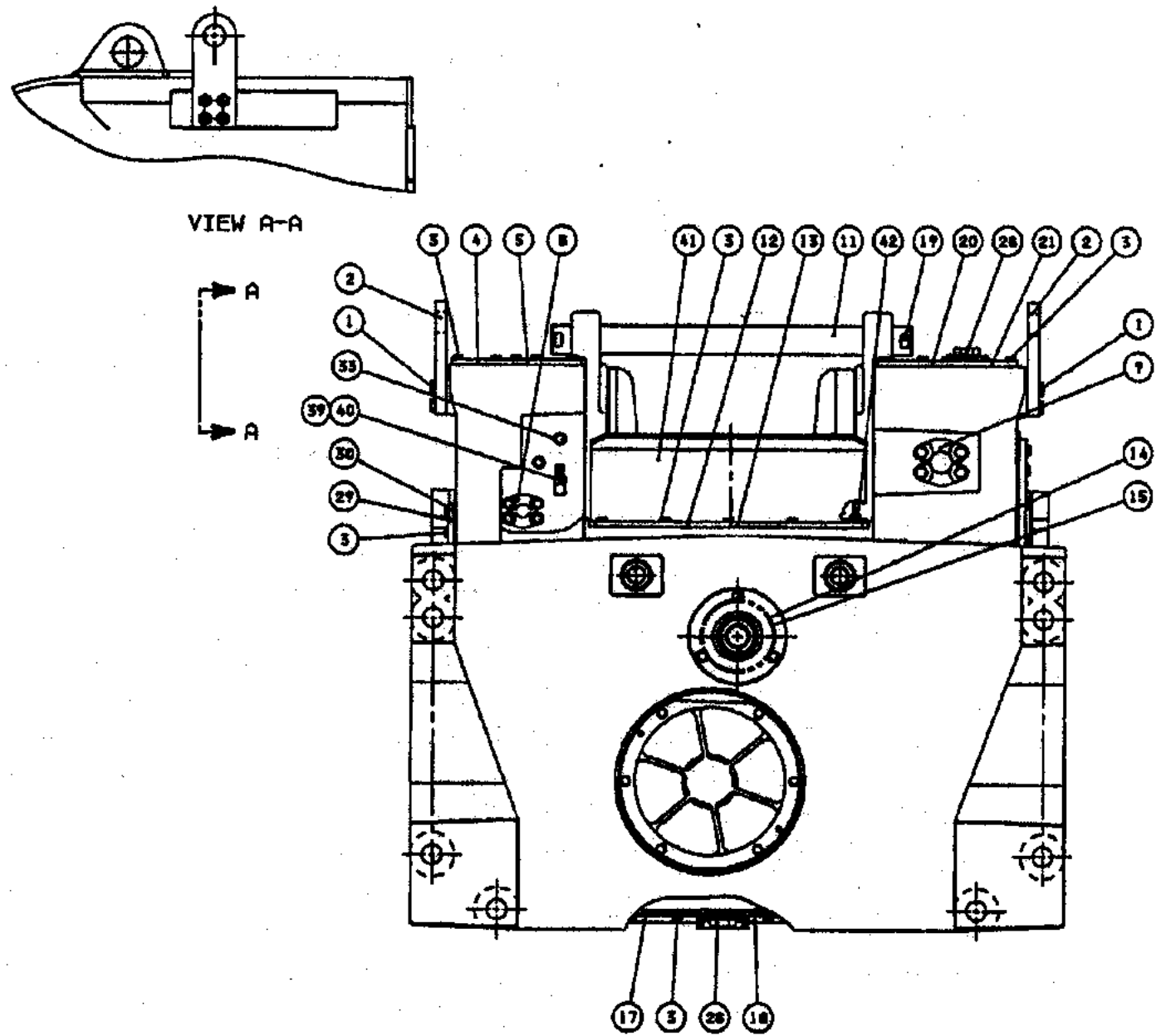
19. With lever "G" in position "N" and locknut "S" loose, adjust cable "M" to obtain 200 psi (1378 kPa). If lever will not stay in spring, reduce pressure until it will. Minimum acceptable pressure at position "N" is 160 psi (1102 kPa) in brake tap.
20. Install 0-500 psi (0-3445 kPa) gauge in control valve clutch pressure tap.
21. Clutch pressure should be between 265 and 315 psi (1825 - 2170 kPa) with lever "G" in position "N".
22. While operating lever, inspect both cables to see if thread on end of cable is contacting rubber seal. If contact is present, readjust cable.
23. With control lever in "reel in", drum rotation should be clockwise when viewed from RH side of tractor.

| Ref.                                                                      | Part number | Description | Qty | Code | Group |
|---------------------------------------------------------------------------|-------------|-------------|-----|------|-------|
| Parts list rows are not synced on this VPS for SEBP2747/SEBP27470007 yet. |             |             |     |      |       |

CASE & COVERS GROUP

Case & Covers Group

Drawing 1 of 1



| Ref.             | Part number | Description                            | Qty | Code | Group page |
|------------------|-------------|----------------------------------------|-----|------|------------|
| 1                | 5P-2566     | CAPSCREW (1/2 - 13 X 1 1/2, GD8Z, HEX) | 8   |      |            |
| 2                | 7G-9998     | PLATE                                  | 2   |      |            |
| 3                | 4L-6454     | CAPSCREW (3/8 - 16 X 1, GD8Z)          | 4   |      |            |
| 4                | 135-1962    | COVER, TOP RH                          | 1   |      |            |
| 5                | 135-1963    | GASKET, TOP RH COVER                   | 1   |      |            |
| SPLIT FLANGE KIT |             |                                        |     |      |            |
|                  | 1P-4577     | FLANGE                                 | 2   |      |            |
|                  | 4J-0520     | O-RING                                 | 1   |      |            |

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