

# Service Manual



## 01

### Boom Truck

Model **TM-2000-1**

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Applicable Serial No. EX0069~

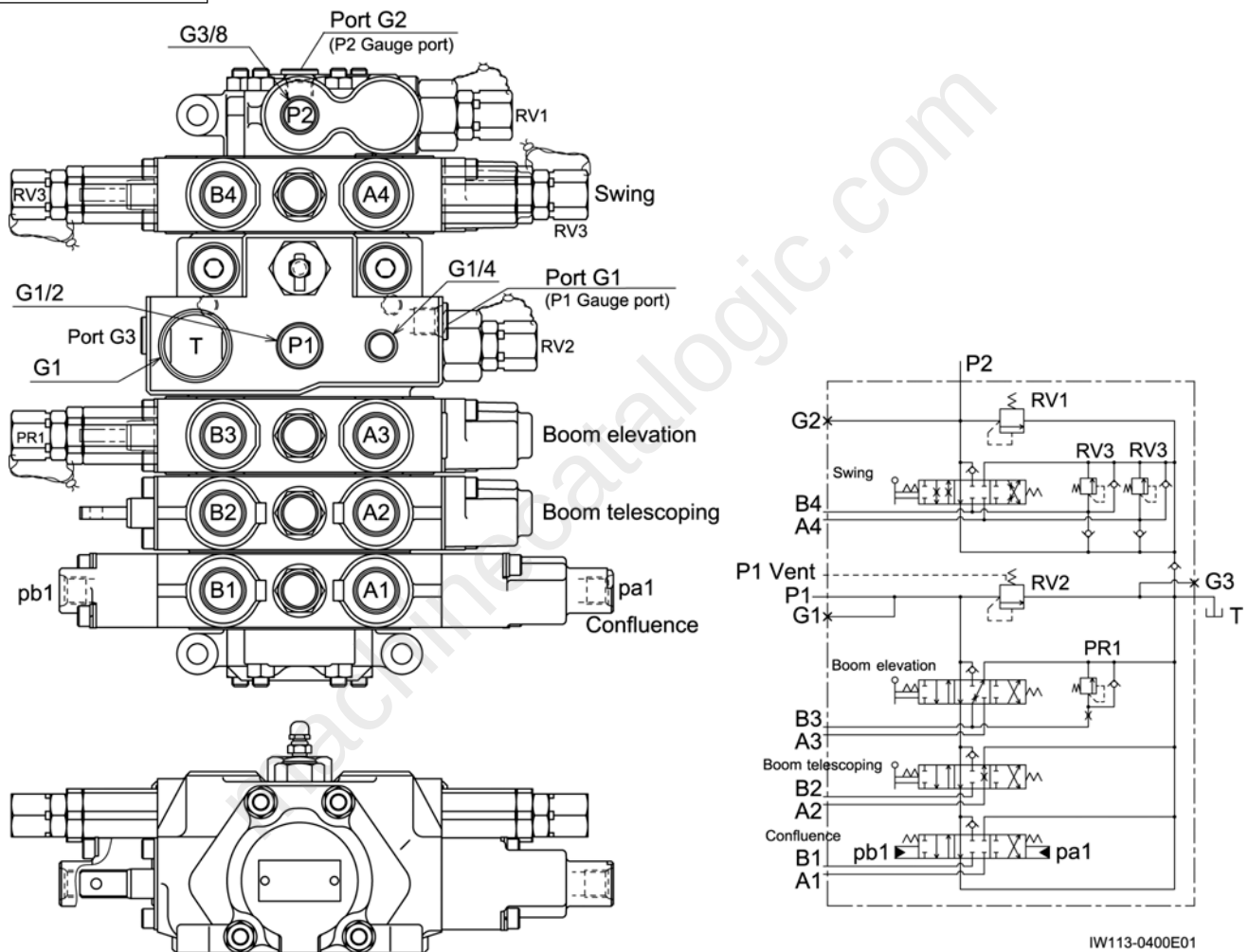
## B-1 Manual Control Valve (Boom elevating, telescoping, swing, outrigger, high/low shift)

### [NOTE]

- ◆ There is a case that the appearance and so on differ from the parts for this crane. Although there is not so much difference in functions and disassembly procedures, make sure of the serial number of this crane and the parts sales unit described in the parts catalog before starting disassembling operations.

### 1. Structure

#### General View



#### Thread size and tightening torque

| Sign / Port              | Thread size | Tightening torque |             |
|--------------------------|-------------|-------------------|-------------|
|                          |             | N-m               | ft-lbf      |
| A1 – A4<br>B1 – B4<br>P1 | G1/2        | 58.8 – 68.6       | 43.3 – 50.5 |
| P2                       | G3/8        | 39.2 – 49.0       | 28.9 – 36.1 |
| T                        | G1          | 98.1 – 117.7      | 72.3 – 86.8 |
| G1 – G3                  | G1/4        | 24.5 – 29.4       | 18.0 – 21.6 |

## Swing Bearing

### 2. Notes for installation

When installing the inner ring of the swing bearing, face the soft zone (stop plug) to the R position shown in the figure on the previous page.

To tighten the bolts•2,4,7, follow the procedures below.

Tighten all the bolts temporarily with approximately half the specified tightening torque.

Then tighten the bolts securely. After tightening one bolt in this case, tighten the diagonally opposite bolt.

#### Thread size and tightening torque

| Sign / Port | Thread size | Tightening torque |               | Note                                                                |
|-------------|-------------|-------------------|---------------|---------------------------------------------------------------------|
|             |             | N-m               | ft-lbf        |                                                                     |
| 2           | M20         | 466 - 505         | 343.7 – 372.4 | Apply a torque control agent to the threaded sections of the bolts. |
| 4           | M22         | 628 - 672         | 463.2 – 495.6 |                                                                     |
| 7           | M18         | 372 - 412         | 274.3 – 303.9 |                                                                     |

## Boom (Five-section boom)

### [NOTICE]

◆ There is a case that the appearance and so on differ from the parts for this machine. Although there is not so much difference in functions and disassembly procedures, make sure of the serial number of this machine and the part sales unit described in the parts catalog before starting disassembling operations.

|                              |                     |                               |                      |
|------------------------------|---------------------|-------------------------------|----------------------|
| 1. -----                     | 43. Plate           | 85. Slide plate               | 127. Bolt            |
| 2. -----                     | 44. Roller assembly | 86. Plate                     | 128. Plain washer    |
| 3. -----                     | 45. Roller assembly | 87. Plate                     | 129. Sheave assembly |
| 4. -----                     | 46. Pin             | 88. Slide plate               | 130. Pin             |
| 5. -----                     | 47. Pin             | 89. Plate                     | 131. Retaining ring  |
| 6. Pin                       | 48. Spacer          | 90. Support assembly          | 132. Support         |
| 7. Snap pin                  | 49. Pin             | 91. Hexagon socket head bolt  | 133. Bolt            |
| 8. Pin                       | 50. Snap pin        | 92. Slide plate               | 134. Shim            |
| 9. Plate                     | 51. Sheave assembly | 93. Slide plate               | 135. Pin             |
| 10. Sheave assembly          | 52. Pin             | 94. Shim                      | 136. Bolt            |
| 11. Spacer                   | 53. Retaining ring  | 95. Shim                      | 137. Spring washer   |
| 12. Spacer                   | 54. Lock washer     | 96. Bolt                      | 138. Support         |
| 13. Pin                      | 55. Nut             | 97. Plain washer              | 139. Bolt            |
| 14. Plate                    | 56. Sheave assembly | 98. Support                   | 140. Bolt            |
| 15. Sheave assembly          | 57. Pin             | 99. Hexagon socket head bolt  | 141. Pin             |
| 16. Spacer                   | 58. Bolt            | 100. Bolt                     | 142. Retaining ring  |
| 17. Wire rope                | 59. Support         | 101. Spring washer            | 143. Slide plate     |
| 18. Nut                      | 60. Bolt            | 102. Bolt                     | 144. Slide plate     |
| 19. Wire rope                | 61. Sheave assembly | 103. Bolt                     | 145. Nut             |
| 20. Nut                      | 62. Spacer          | 104. Bolt                     | 146. Bolt            |
| 21. Nut                      | 63. Spacer          | 105. Bolt                     | 147. Plate           |
| 22. Wire rope                | 64. Button bolt     | 106. Bolt                     | 148. Plate           |
| 23. Wire rope                | 65. Pin             | 107. Bolt                     | 149. Plate           |
| 24. Wire rope                | 66. Plate           | 108. Bolt                     | 150. Plate           |
| 25. Hexagon socket head bolt | 67. Slide plate     | 109. Bolt                     | 151. Slide plate     |
| 26. Support                  | 68. Machine screw   | 110. Bolt                     | 152. -----           |
| 27. Plug                     | 69. Plain bearing   | 111. Spring washer            | 153. -----           |
| 28. Nameplate                | 70. Plate           | 112. Hexagon socket head bolt | 154. -----           |
| 29. Tapping screw            | 71. Retainer        | 113. Hexagon socket head bolt | 155. -----           |
| 30. Cap                      | 72. Retainer        | 114. Bolt                     | 156. Shim            |
| 31. Grease nipple            | 73. Slide plate     | 115. Spring washer            | 157. Shim            |
| 32. Grease nipple            | 74. Retainer        | 116. Pin                      | 158. Plate           |
| 33. Pin                      | 75. Retainer        | 117. Spacer                   | 159. Plate           |
| 34. Plate                    | 76. Slide plate     | 118. -----                    | 160. Bolt            |
| 35. Cover                    | 77. Slide plate     | 119. Sheave assembly          | 161. Bolt            |
| 36. Pin                      | 78. Support         | 120. Pin                      | 162. Set screw       |
| 37. Support                  | 79. Slide plate     | 121. Retaining ring           | 163. Cover           |
| 38. Sheave assembly          | 80. Plate           | 122. Pin                      |                      |
| 39. Spacer                   | 81. Plate           | 123. Retaining ring           |                      |
| 40. Pin                      | 82. Slide plate     | 124. Adjuster assembly        |                      |
| 41. Spacer                   | 83. Shim            | 125. Bolt                     |                      |
| 42. Guide                    | 84. Shim            | 126. Spring washer            |                      |

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## Boom (Five-section boom)

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16. Adjust the wire ropes for boom telescoping according to Chapter Y "Adjustment procedure of boom telescoping wire ropes".
17. Install the boom length/angle detector according to Chapter H "Boom length/angle detector replacement procedure".

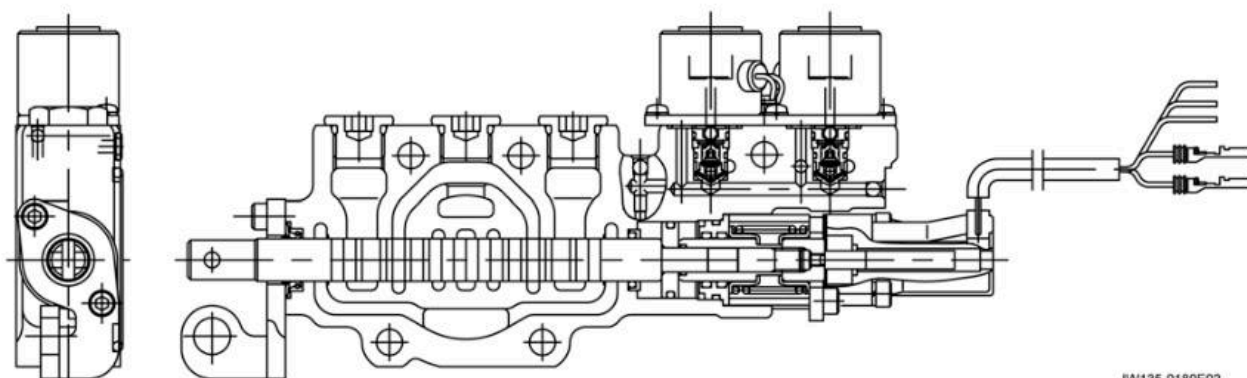
### 8. Mounting the boom assy

Reverse the "2.1 Dismounting the boom assembly" in sequence.

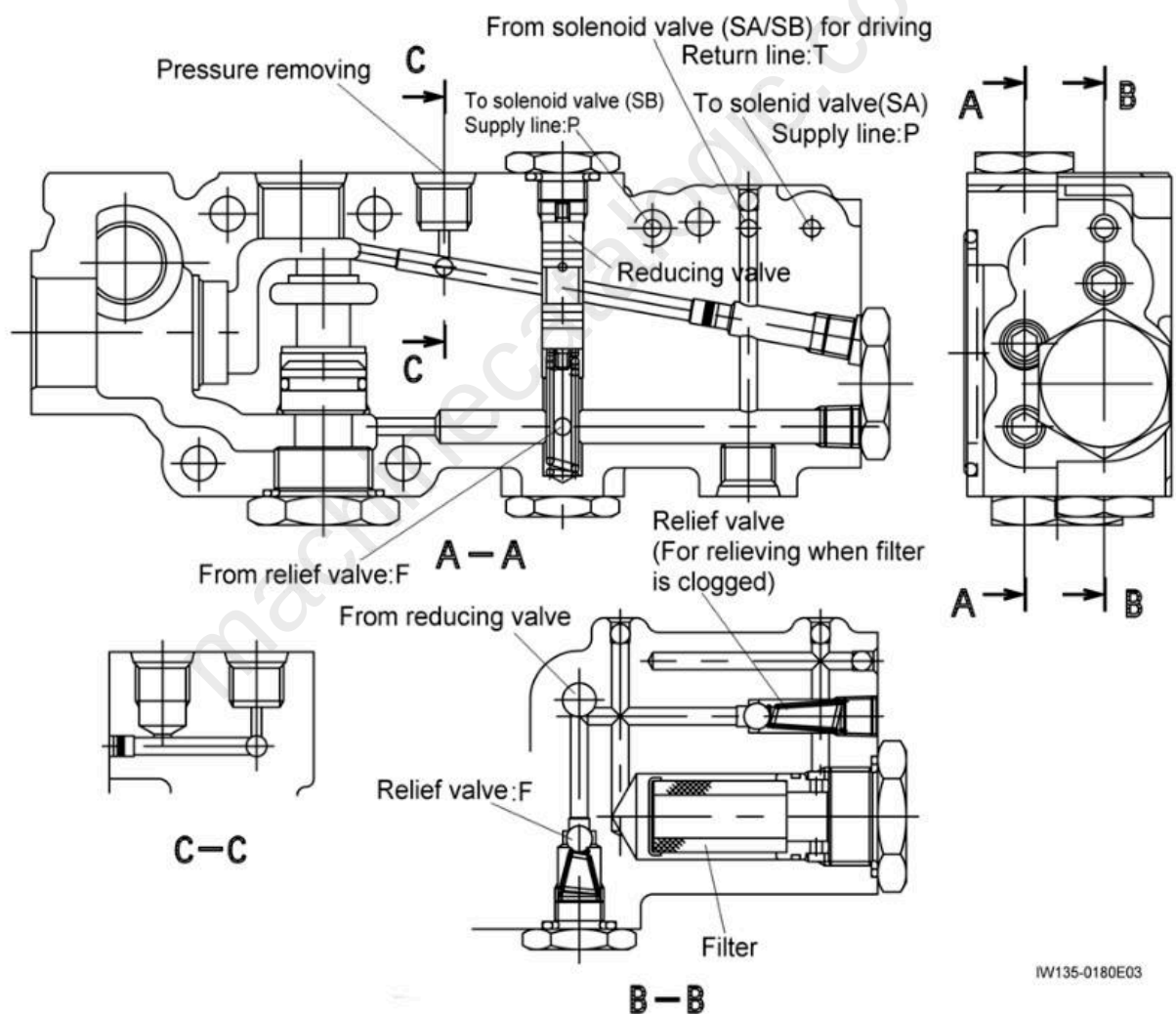
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## Radio-control Valve

## 1.4 Cross section



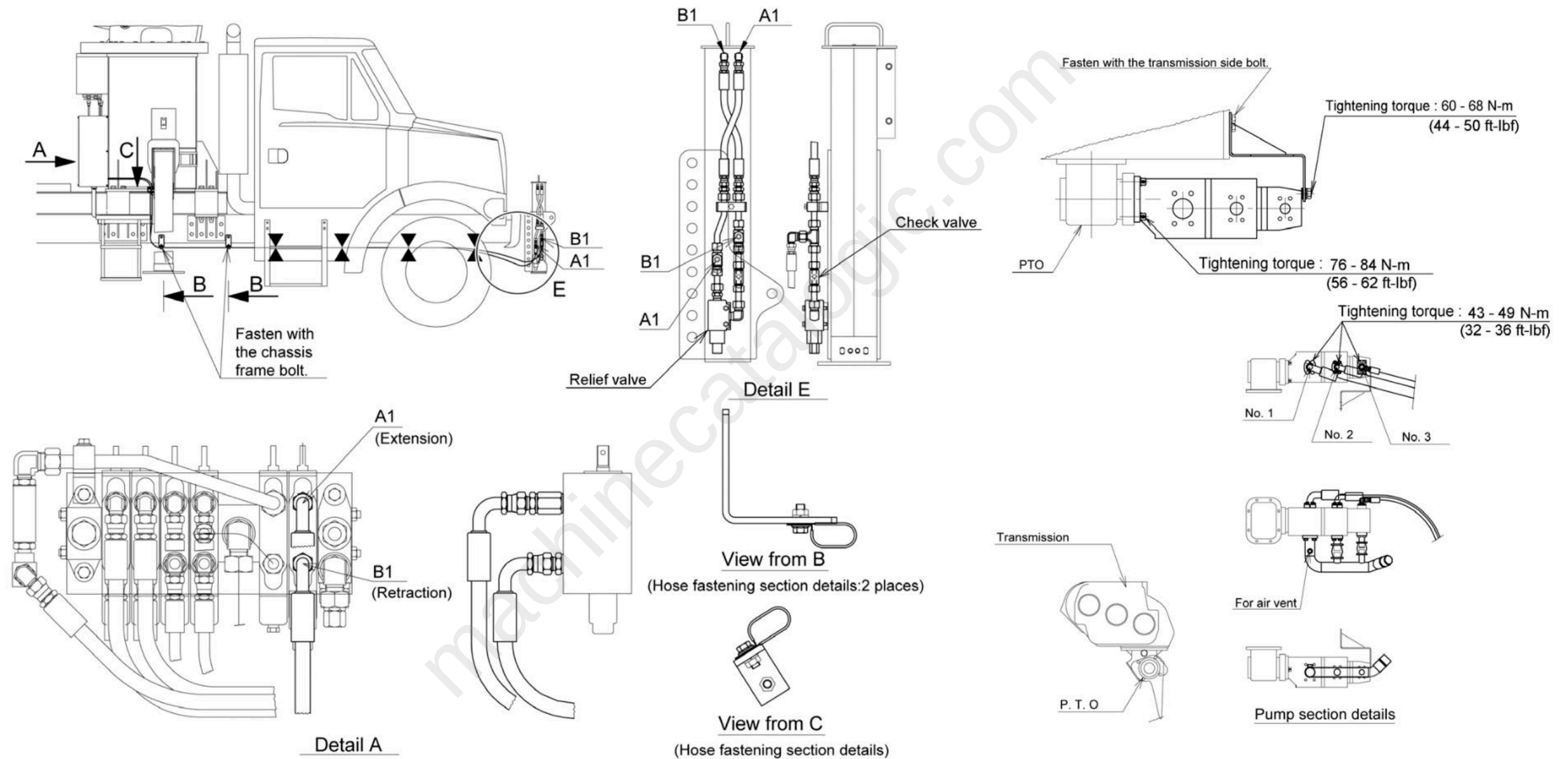
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IW135-0180E03

## Location of Hydraulic Parts

## 4. Lower



IWZ07-1810E05

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Tadano TM-2000-1 boom truck service manual covering repair procedures, adjustments and troubleshooting across the main systems. Instant PDF download.

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