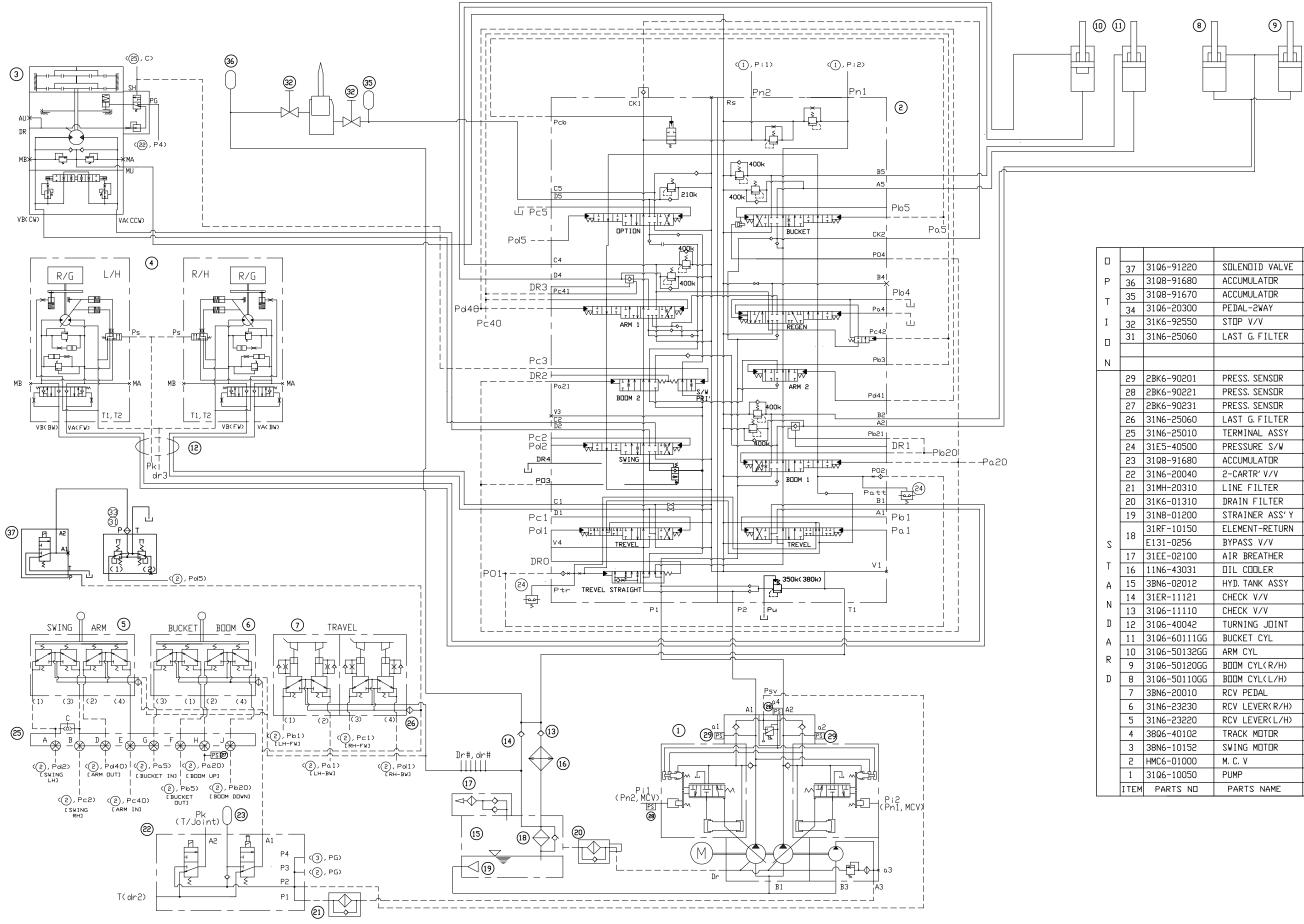
| Group | 1 | Hydraulic Circuit | 3-1 |
|-------|---|-------------------|-----|
| Group | 2 | Main Circuit | 3-2 |
| Group | 3 | Pilot Circuit | 3-5 |

GROUP 1 HYDRAULIC CIRCUIT



3-1

SECTION 3 HYDRAULIC SYSTEM

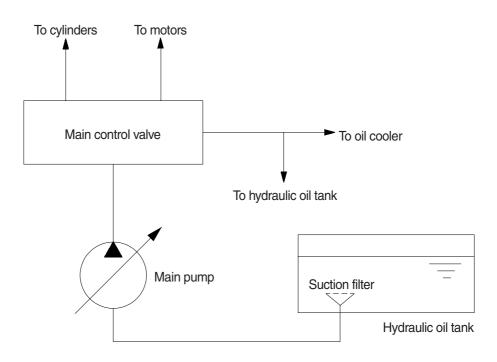
| 3106-91220 SDLENDID VALVE 1 BREAKER 36 3108-91680 ACCUMULATUR 1 35 3108-91670 ACCUMULATUR 1 34 3106-20300 PEDAL-2WAY 1 32 31K6-92550 STDP V/V 2 31 31N6-25060 LAST G. FILTER 1 - - - - 29 2BK6-90201 PRESS. SENSDR 2 500K 28 2BK6-90211 PRESS. SENSDR 2 100K 27 2BK6-90231 PRESS. SENSDR 2 100K 27 2BK6-90231 PRESS. SENSDR 1 50K 26 31N6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 31E5-40500 PRESSURE S/W 2 14k 23 3108-91680 ACCUMULATUR 1 0. 35L, 170k 22 31N6-20310 LINE FILTER 1 1 21 31MH-20310 LINE FILTER 1 <td< th=""><th></th><th></th><th></th><th></th><th></th></td<> | | | | | |
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| 35 3108-91670 ACCUMULATUR 1 34 3106-20300 PEDAL-2WAY 1 32 31K6-92550 STUP V/V 2 31 31N6-25060 LAST G. FILTER 1 4 3106-25060 LAST G. FILTER 1 29 2BK6-90201 PRESS. SENSUR 2 500K 28 2BK6-90221 PRESS. SENSUR 2 100K 27 2BK6-90231 PRESS. SENSUR 2 100K 27 2BK6-90231 PRESS. SENSUR 2 100K 27 2BK6-90231 PRESS. SENSUR 1 50K 26 31N6-25060 LAST G. FILTER 1 2 21 31K6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 31E5-40500 PRESSURE S/W 2 14k 23 3108-01200 STRAINER ASSY 1 1 20 31K6-01310 DRAIN FILTER 1 18 31RF-10150 ELEMENT-RETURN </td <td>37</td> <td></td> <td></td> <td>-</td> <td>BREAKER</td> | 37 | | | - | BREAKER |
| Jack Jige-20300 PEDAL-2WAY I 32 31R6-92550 STDP V/V 2 31 31N6-25060 LAST G. FILTER 1 2 2BK6-90201 PRESS. SENSDR 2 500K 28 2BK6-90201 PRESS. SENSDR 2 100K 27 2BK6-90201 PRESS. SENSDR 2 100K 27 2BK6-90201 PRESS. SENSDR 2 100K 28 2BK6-90201 PRESS. SENSDR 1 50K 26 31N6-25060 LAST G. FILTER 1 1 25 31N6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 3126-40500 PRESSURE S/W 2 14k 23 3108-91680 ACCUMULATOR 1 0. 35L, 170k 22 31N6-1200 STRAINER ASSY 1 1 20 31K6-01310 DRAIN FILTER 1 18 31RF-10150 ELEMENT-RETURN 1 18 31RF-10150 <td></td> <td></td> <td></td> <td>-</td> <td></td> | | | | - | |
| Image: Signal Action STUP V/V 2 31 31K6-92550 STUP V/V 2 31 31N6-25060 LAST G. FILTER 1 29 2BK6-90201 PRESS. SENSUR 2 500K 28 2BK6-90201 PRESS. SENSUR 2 100K 27 2BK6-90201 PRESS. SENSUR 2 100K 27 2BK6-90201 PRESS. SENSUR 1 50K 26 31N6-25060 LAST G. FILTER 1 1 25 31N6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 31E5-40500 PRESSURE S/W 2 14k 23 3108-91680 ACCUMULATUR 1 0. 35L, 170k 22 31N6-2010 LINE FILTER 1 0. 35L, 170k 23 31K6-01310 DRAIN FILTER 1 1 318 51100 STRAINER ASS' Y 1 1 18 31RF-10150 ELEMENT-RETURN 1 1 19 3 | 35 | | | - | |
| JL INR-1000 LAST G. FILTER I 31 31N6-25060 LAST G. FILTER 1 29 2BK6-90201 PRESS. SENSDR 2 500K 28 2BK6-90221 PRESS. SENSDR 2 100K 27 2BK6-90221 PRESS. SENSDR 1 50K 26 31N6-25060 LAST G. FILTER 1 2 25 31N6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 31E5-40500 PRESSURE S/W 2 14k 23 31Q8-91680 ACCUMULATOR 1 0. 35L, 170k 22 31N6-20040 2-CARTR'V/V 1 1 20 31K6-01310 DRAIN FILTER 1 20 31K6-01310 DRAIN FILTER 1 18 31RF-10150 ELEMENT-RETURN 1 14 31EC-02100 AIR BREATHER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 | 34 | | | - | |
| Image: Constraint of the second sec | 32 | | | 5 | |
| 28 28k6-90221 PRESS. SENSDR 2 100K 27 28k6-90231 PRESS. SENSDR 1 50K 26 31N6-25060 LAST G. FILTER 1 25 31N6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 31E5-40500 PRESSURE S/W 2 14k 23 3108-91680 ACCUMULATOR 1 0. 35L, 170k 22 31N6-20040 2-CARTR' V/V 1 1 20 31K6-01310 DRAIN FILTER 1 20 31K6-01310 DRAIN FILTER 1 19 31N8-01200 STRAINER ASS' Y 1 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-50132GG ARM CYL 1 | 31 | 31N6-25060 | LAST G. FILTER | 1 | |
| 28 28k6-90221 PRESS. SENSDR 2 100K 27 28k6-90231 PRESS. SENSDR 1 50K 26 31N6-25060 LAST G. FILTER 1 25 31N6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 31E5-40500 PRESSURE S/W 2 14k 23 3108-91680 ACCUMULATOR 1 0. 35L, 170k 22 31N6-20040 2-CARTR' V/V 1 1 20 31K6-01310 DRAIN FILTER 1 20 31K6-01310 DRAIN FILTER 1 19 31N8-01200 STRAINER ASS' Y 1 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-50132GG ARM CYL 1 | | | | | |
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| 27 2BK6-90231 PRESS. SENSDR 1 50K 26 31N6-25060 LAST G. FILTER 1 25 31N6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 31E5-40500 PRESSURE S/W 2 14k 23 3108-91680 ACCUMULATOR 1 0. 35L, 170k 22 31N6-20040 2-CARTR' V/V 1 1 21 31MH-20310 LINE FILTER 1 20 31K6-01310 DRAIN FILTER 1 20 31K6-01300 STRAINER ASS'Y 1 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-10110G BUCKET CYL 1 1 10 31Q6-50132GG ARM CYL 1 1 | 29 | 2BK6-90201 | PRESS. SENSOR | 2 | 500K |
| 26 31N6-25060 LAST G. FILTER 1 25 31N6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 31E5-40500 PRESSURE S/W 2 14k 23 31Q8-91680 ACCUMULATOR 1 0.35L,170k 22 31N6-20040 2-CARTR' V/V 1 1 21 31MH-20310 LINE FILTER 1 1 20 31K6-01310 DRAIN FILTER 1 1 20 31K6-01300 STRAINER ASS'Y 1 1 20 31K6-01310 DRAIN FILTER 1 1 21 31N8-01200 STRAINER ASS'Y 1 1 21 31RF-10150 ELEMENT-RETURN 1 1 216 11N6-43031 OIL COULER 1 1 217 31E6-02100 AIR BREATHER 1 1 216 31Q6-01112 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 1.0K 1 | 28 | 2BK6-90221 | PRESS, SENSOR | 2 | 100K |
| 25 31N6-25010 TERMINAL ASSY 1 TEE SHUTTLE 24 31E5-40500 PRESSURE S/W 2 14k 23 31Q8-91680 ACCUMULATOR 1 0.35L,170k 22 31N6-20040 2-CARTR' V/V 1 1 21 31MH-20310 LINE FILTER 1 1 20 31K6-01310 DRAIN FILTER 1 1 20 31K6-01300 STRAINER ASS'Y 1 1 20 31K6-01200 STRAINER ASS'Y 1 1 21 31N8-01200 STRAINER ASS'Y 1 1 21 31RF-10150 ELEMENT-RETURN 1 1 21 31RF-10150 ELEMENT-RETURN 1 1 21 31R6-02012 HYD. TANK ASSY 1 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 1.0K 12 31Q6-50132GG BDDM CYL(R/H) 1 1 | 27 | 2BK6-90231 | PRESS, SENSOR | 1 | 50K |
| 24 31E5-40500 PRESSURE S/W 2 14k 23 31Q8-91680 ACCUMULATOR 1 0.35L,170k 22 31N6-20040 2-CARTR' V/V 1 1 21 31MH-20310 LINE FILTER 1 20 31K6-01310 DRAIN FILTER 1 19 31N8-01200 STRAINER ASS' Y 1 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 OIL COULER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 3.0K 12 31Q6-60111GG BUCKET CYL 1 1 10 31Q6-50132GG ARM CYL 1 1 11 31Q6-50110GG BODM CYL(R/H) 1 1 12 31Q6-50110GG BODM CYL(R/H) 1 1 | 26 | 31N6-25060 | LAST G. FILTER | 1 | |
| 23 31Q8-91680 ACCUMULATOR 1 0.35L,170k 22 31N6-20040 2-CARTR' V/V 1 1 21 31MH-20310 LINE FILTER 1 20 31K6-01310 DRAIN FILTER 1 20 31K6-01310 DRAIN FILTER 1 19 31N8-01200 STRAINER ASS' Y 1 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 1.0K 12 31Q6-60111GG BUCKET CYL 1 1 10 31Q6-50132GG ARM CYL 1 1 11 31Q6-50110GG BDDM CYL(R/H) 1 1 12 31Q6-50110GG BDDM CYL(L/H) 1 1 | 25 | 31N6-25010 | TERMINAL ASSY | 1 | TEE SHUTTLE |
| 22 31N6-20040 2-CARTR' V/V 1 21 31MH-20310 LINE FILTER 1 20 31K6-01310 DRAIN FILTER 1 19 31N8-01200 STRAINER ASS'Y 1 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 3.0K 12 31Q6-60111GG BUCKET CYL 1 1.0K 12 31Q6-50132GG ARM CYL 1 1 10 31Q6-50110GG BDDM CYL(R/H) 1 1 7 3BN6-20010 RCV PEDAL 1 1 7 3BN6-20010 RCV LEVER(R/H) 1 1 8 31Q6-50132GG RCV LEVER(L/H) 1 1 7 | 24 | 31E5-40500 | PRESSURE S/W | 2 | 14k |
| 21 31MH-20310 LINE FILTER 1 20 31K6-01310 DRAIN FILTER 1 19 31N8-01200 STRAINER ASS' Y 1 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 3.0K 13 31Q6-50132GG ARM CYL 1 1.0K 12 31Q6-60111GG BUCKET CYL 1 1 10 31Q6-50132GG BDDM CYL(R/H) 1 1 9 31Q6-50110GG BDDM CYL(L/H) 1 1 7 3BN6-20010 RCV PEDAL 1 1 6 31N6-23230 RCV LEVER(L/H) 1 1 5 31N6-23220 RCV LEVER(L/H) 1 1 | 23 | 3108-91680 | ACCUMULATOR | 1 | 0.35L,170k |
| 20 31K6-01310 DRAIN FILTER 1 19 31N8-01200 STRAINER ASS'Y 1 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 3.0K 13 31Q6-5012G BUCKET CYL 1 1.0K 12 31Q6-60111G BUCKET CYL 1 1.0K 13 31Q6-50132GG ARM CYL 1 1 10 31Q6-5010GG BDDM CYL(R/H) 1 1 8 31Q6-5010GG BDDM CYL(L/H) 1 1 7 3BN6-20010 RCV PEDAL 1 1 6 31N6-23230 RCV LEVER(L/H) 1 1 5 31N6-23220 RCV LEVER(L/H) 1 1 | 22 | 31N6-20040 | 2-CARTR' V/V | 1 | |
| 19 31N8-01200 STRAINER ASS'Y 1 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 3.0K 12 31Q6-60111GG BUCKET CYL 1 1.0K 11 31Q6-50132GG ARM CYL 1 1 10 31Q6-50110GG BDDM CYL(R/H) 1 1 9 31Q6-50100G BDDM CYL(L/H) 1 1 7 3BN6-20010 RCV PEDAL 1 1 6 31N6-23230 RCV LEVER(R/H) 1 1 5 31N6-23220 RCV LEVER(L/H) 1 1 4 38Q6-40102 TRACK MDTDR 2 3 3 3 38N6-10152 SWING MDTDR | 21 | 31MH-20310 | LINE FILTER | 1 | |
| 18 31RF-10150 ELEMENT-RETURN 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 3.0K 11 31Q6-60111GG BUCKET CYL 1 1.0K 12 31Q6-60111GG BUCKET CYL 1 1 10 31Q6-50132GG ARM CYL 1 1 9 31Q6-50110GG BDDM CYL(R/H) 1 1 8 31Q6-50100G BDDM CYL(L/H) 1 1 7 3BN6-20010 RCV PEDAL 1 1 6 31N6-23220 RCV LEVER(R/H) 1 1 5 31N6-23220 RCV LEVER(L/H) 1 1 4 38Q6-40102 TRACK MDTDR 2 3 3 3 38N6-10152 SWING M | 20 | 31K6-01310 | DRAIN FILTER | 1 | |
| 18 E131-0256 BYPASS V/V 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3. 0K 13 31Q6-11110 CHECK V/V 1 1. 0K 12 31Q6-40042 TURNING JDINT 1 11 31Q6-60111GG BUCKET CYL 1 10 31Q6-50132GG ARM CYL 1 9 31Q6-50120GG BDDM CYL(R/H) 1 8 31Q6-50110GG BDDM CYL(L/H) 1 7 3BN6-20010 RCV PEDAL 1 6 31N6-23220 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 31Q6- | 19 | 31N8-01200 | STRAINER ASS'Y | 1 | |
| E131-0256 BYPASS V/V 1 17 31EE-02100 AIR BREATHER 1 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3. 0K 13 31Q6-11110 CHECK V/V 1 1. 0K 12 31Q6-60111GG BUCKET CYL 1 1 10 31Q6-60111GG BUCKET CYL 1 1 10 31Q6-50132GG ARM CYL 1 1 9 31Q6-50120GG BDDM CYL(R/H) 1 1 8 31Q6-50110GG BDDM CYL(L/H) 1 1 7 3BN6-20010 RCV PEDAL 1 1 6 31N6-23220 RCV LEVER(R/H) 1 1 5 31N6-23220 RCV LEVER(L/H) 1 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 1 1266-10050 PUMP < | 10 | 31RF-10150 | ELEMENT-RETURN | 1 | |
| 16 11N6-43031 DIL CDDLER 1 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 1.0K 12 31Q6-1042 TURNING JDINT 1 1.0K 11 31Q6-60111GG BUCKET CYL 1 1 10 31Q6-50132GG ARM CYL 1 1 9 31Q6-50102GG BDDM CYL(R/H) 1 1 7 3BN6-20010 RCV PEDAL 1 1 6 31N6-23230 RCV LEVER(R/H) 1 1 5 31N6-23220 RCV LEVER(R/H) 1 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 1 1 1 | 18 | E131-0256 | BYPASS V/V | 1 | |
| 15 3BN6-02012 HYD. TANK ASSY 1 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 1.0K 12 31Q6-40042 TURNING JDINT 1 11 31Q6-60111GG BUCKET CYL 1 10 31Q6-50132GG ARM CYL 1 9 31Q6-50120GG BDDM CYL(R/H) 1 7 3BN6-2010 RCV PEDAL 1 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(R/H) 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 17 | 31EE-02100 | AIR BREATHER | 1 | |
| 14 31ER-11121 CHECK V/V 1 3.0K 13 31Q6-11110 CHECK V/V 1 1.0K 12 31Q6-40042 TURNING JDINT 1 11 31Q6-60111GG BUCKET CYL 1 10 31Q6-50132GG ARM CYL 1 9 31Q6-50120GG BDDM CYL(R/H) 1 8 31Q6-50110GG BDDM CYL(L/H) 1 7 3BN6-20010 RCV PEDAL 1 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 16 | 11N6-43031 | DIL COOLER | 1 | |
| 13 31Q6-11110 CHECK V/V 1 1.0K 12 31Q6-40042 TURNING JUINT 1 11 31Q6-60111GG BUCKET CYL 1 10 31Q6-50132GG ARM CYL 1 9 31Q6-50120GG BUDM CYL(R/H) 1 8 31Q6-50100G BDDM CYL(L/H) 1 7 3BN6-20010 RCV PEDAL 1 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MDTUR 2 3 38N6-10152 SWING MDTUR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 15 | 3BN6-02012 | HYD. TANK ASSY | 1 | |
| 12 31Q6-40042 TURNING JUINT 1 11 31Q6-60111GG BUCKET CYL 1 10 31Q6-50132GG ARM CYL 1 9 31Q6-50120GG BDDM CYL(R/H) 1 8 31Q6-50110GG BDDM CYL(L/H) 1 7 3BN6-20010 RCV PEDAL 1 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 14 | 31ER-11121 | CHECK V/V | 1 | 3. OK |
| 11 31Q6-60111GG BUCKET CYL 1 10 31Q6-50132GG ARM CYL 1 9 31Q6-50120GG BDDM CYL(R/H) 1 8 31Q6-50110GG BDDM CYL(L/H) 1 7 3BN6-20010 RCV PEDAL 1 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 1 31Q6-10050 PUMP 1 1 | 13 | 31Q6-11110 | CHECK V/V | 1 | 1. OK |
| 10 31Q6-50132GG ARM CYL 1 9 31Q6-50120GG BDDM CYL(R/H) 1 8 31Q6-50110GG BDDM CYL(L/H) 1 7 3BN6-20010 RCV PEDAL 1 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 12 | 31Q6-40042 | TURNING JOINT | 1 | |
| 9 31Q6-50120GG BDDM CYL(R/H) 1 8 31Q6-50110GG BDDM CYL(L/H) 1 7 3BN6-20010 RCV PEDAL 1 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 11 | 31Q6-60111GG | BUCKET CYL | 1 | |
| 8 31Q6-50110GG BDDM CYL(L/H) 1 7 3BN6-20010 RCV PEDAL 1 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 10 | 31Q6-50132GG | ARM CYL | 1 | |
| 7 3BN6-20010 RCV PEDAL 1 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MUTUR 2 3 38N6-10152 SWING MUTUR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 9 | 31Q6-50120GG | BOOM CYL(R/H) | 1 | |
| 6 31N6-23230 RCV LEVER(R/H) 1 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MDTDR 2 3 38N6-10152 SWING MDTDR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 8 | 31Q6-50110GG | BOOM CYL(L/H) | 1 | |
| 5 31N6-23220 RCV LEVER(L/H) 1 4 38Q6-40102 TRACK MUTUR 2 3 38N6-10152 SWING MUTUR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 7 | 3BN6-20010 | RCV PEDAL | 1 | |
| 4 38Q6-40102 TRACK MUTUR 2 3 38N6-10152 SWING MUTUR 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 6 | 31N6-23230 | RCV LEVER(R/H) | 1 | |
| 3 38N6-10152 SWING METER 1 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 5 | 31N6-23220 | RCV LEVER(L/H) | 1 | |
| 2 HMC6-01000 M. C. V 1 1 31Q6-10050 PUMP 1 | 4 | 38Q6-40102 | TRACK MOTOR | 5 | |
| 1 31Q6-10050 PUMP 1 | 3 | 38N6-10152 | SWING MOTOR | 1 | |
| | 2 | HMC6-01000 | M. C. V | 1 | |
| ITEM PARTS NO PARTS NAME QTY | 1 | 31Q6-10050 | PUMP | 1 | |
| | ITEM | PARTS ND | PARTS NAME | QTY | |

GROUP 2 MAIN CIRCUIT

The main hydraulic circuit consists of suction circuit, delivery circuit, return circuit and drain circuit. The hydraulic system consists of one main pump, one control valve, one swing motor, four cylinders and two travel motors.

The swash plate type variable displacement tandem axial piston pump is used as the main pump and is driven by the engine at ratio 1.0 of engine speed.

1. SUCTION AND DELIVERY CIRCUIT



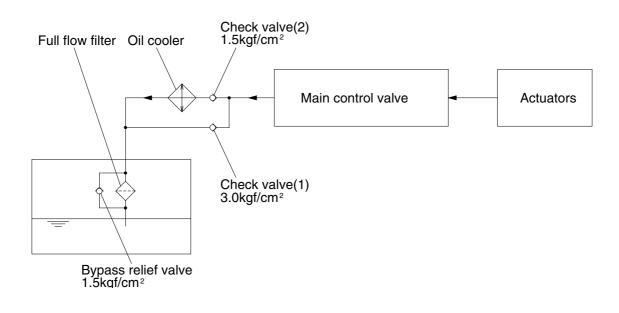
The pumps receive oil from the hydraulic tank through a suction filter. The discharged oil from the pump flows into the control valve and goes out the tank ports.

The oil discharged from the main pump flows to the actuators through the control valve.

The control valve controls the hydraulic functions.

The return oil from the actuators flows to the hydraulic tank through the control valve and the oil cooler.

2. RETURN CIRCUIT



All oil from each actuator returns to the hydraulic tank through the control valve.

The bypass check valves are provided in the return circuit.

The setting pressure of bypass check valves are 1.5 kgf/cm² (21psi) and 3.0 kgf/cm² (43psi). Usually, oil returns to the hydraulic tank from the left side of control valve through oil cooler.

When oil temperature is low, viscosity becomes higher and flow resistance increases when passing through the oil cooler. The oil pressure exceeds 3.0 kgf/cm² (43psi), the oil returns directly to the hydraulic tank, resulting in the oil temperature being raised quickly at an appropriate level.

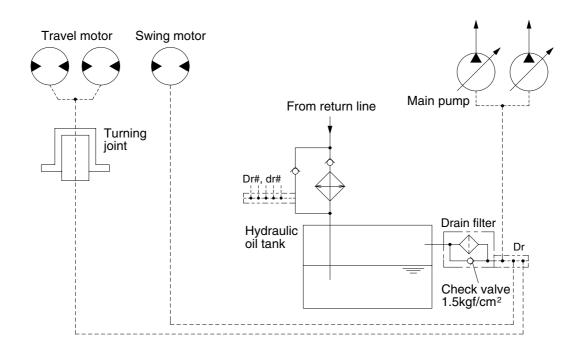
When the oil cooler is clogged, the oil returns directly to the hydraulic tank through bypass check valve (1).

The full-flow filter and bypass relief valve are provided in the hydraulic tank.

The oil from right and left side of control valve is combined and filtered by the return filter. A bypass relief valve is provided in the full-flow filter.

When the filter element is clogged, the bypass relief valve opens at 1.5 kgf/cm² (21psi) differential pressure.

3. DRAIN CIRCUIT



Besides internal leaks from the motors and main pump, the oil for lubrication circulates. These oil have to be fed to the hydraulic tank passing through drain filter.

When the drain oil pressure exceed 1.5 kgf/cm² (21psi), the oil returns to the hydraulic tank directly.

1) TRAVEL MOTOR DRAIN CIRCUIT

Oil leaking from the right and left travel motors comes out of the drain ports provided in the respective motor casing and join with each other. These oils pass through the turning joint and return to the hydraulic tank after being filtered by drain filter.

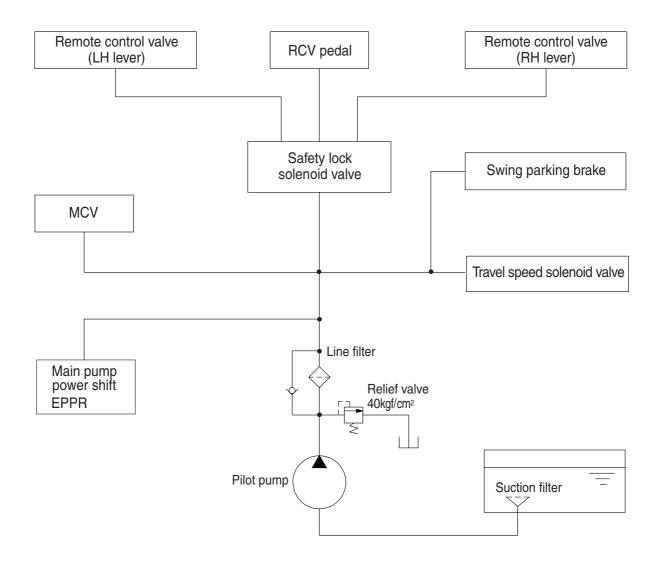
2) SWING MOTOR DRAIN CIRCUIT

Oil leaking from the swing motor come out and return to the hydraulic tank passing through a drain filter.

3) MAIN PUMP DRAIN CIRCUIT

Oil leaking from main pump come out and return to the hydraulic tank passing through drain filter.

GROUP 3 PILOT CIRCUIT



The pilot circuit consists of suction circuit, delivery circuit and return circuit.

The pilot pump is provided with relief valve, receives the oil from the hydraulic tank through the suction filter.

The discharged oil from the pilot pump flows to the remote control valve through line filter, EPPR valve, solenoid valve assemblies, swing parking brake, main control valve and safety lock solenoid valve.