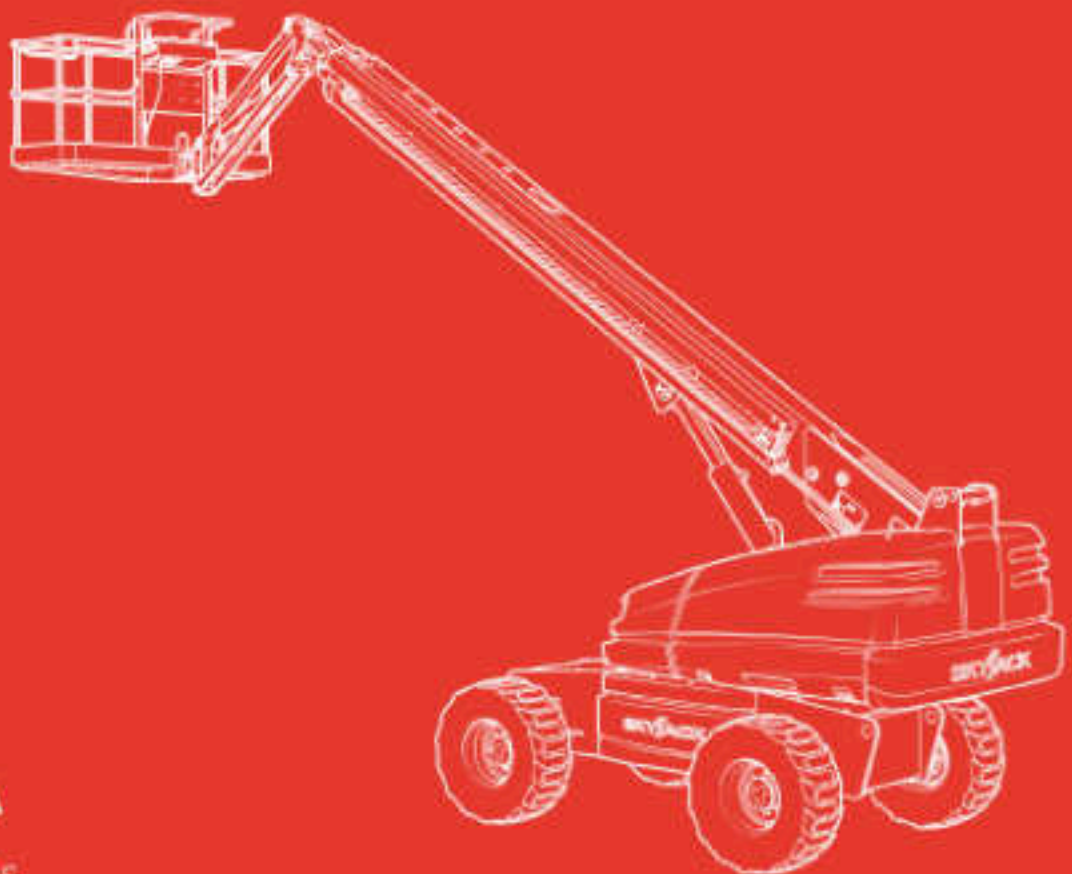
SKYJACK

# SERVICE MANUAL

## SJ61 T+, SJ66 T+

TELESCOPIC BOOMS



**229039AHA**
June 12 2026
ANSI/CSA, CE, AS

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# Table 2.3 Torque Specifications for Fasteners (US)

When specific torque values are not provided within this manual for a task, use the torque values given in the table below.

| Size | Torque Type | SAE 2 | | SAE 5 | | SAE 8 | |
|---|---|---|---|---|---|---|---|
| | | Dry | Lubed | Dry | Lubed | Dry | Lubed |
| 4-40 | (in-lb) | (5) | (4) | (8) | (6) | (12) | (9) |
| | Nm | 0.6 | 0.5 | 0.9 | 0.7 | 1.4 | 1.0 |
| 4-48 | (in-lb) | (6) | (5) | (9) | (7) | (13) | (10) |
| | Nm | 0.7 | 0.6 | 1.0 | 0.8 | 1.5 | 1.1 |
| 6-32 | (in-lb) | (10) | (8) | (16) | (12) | (23) | (17) |
| | Nm | 1.1 | 0.9 | 1.8 | 1.4 | 2.6 | 1.9 |
| 6-40 | (in-lb) | (12) | (9) | (18) | (13) | (25) | (19) |
| | Nm | 1.4 | 1.0 | 2.0 | 1.5 | 2.8 | 2.1 |
| 8-32 | (in-lb) | (19) | (14) | (30) | (22) | (41) | (31) |
| | Nm | 2.1 | 1.6 | 3.4 | 2.5 | 4.6 | 3.5 |
| 8-36 | (in-lb) | (20) | (15) | (31) | (23) | (43) | (32) |
| | Nm | 2.3 | 1.7 | 3.5 | 2.6 | 4.9 | 3.6 |
| 10-24 | (in-lb) | (27) | (21) | (43) | (32) | (60) | (45) |
| | Nm | 3.1 | 2.4 | 4.9 | 3.6 | 6.8 | 5.1 |
| 10-32 | (in-lb) | (31) | (23) | (49) | (36) | (68) | (51) |
| | Nm | 3.5 | 2.6 | 5.5 | 4.1 | 7.7 | 5.8 |
| 1/4-20 | (in-lb) ft-lb | (66) | (50) | 8 | (75) | 12 | 9 |
| | Nm | 7.5 | 5.6 | 11 | 8.5 | 16 | 12 |
| 1/4-28 | (in-lb) ft-lb | (76) | (56) | 10 | (86) | 14 | 10 |
| | Nm | 8.6 | 6.3 | 14 | 9.7 | 19 | 14 |
| 5/16-18 | ft-lb | 11 | 8 | 17 | 13 | 25 | 18 |
| | Nm | 15 | 11 | 23 | 18 | 34 | 24 |
| 5/16-24 | ft-lb | 12 | 9 | 19 | 14 | 25 | 20 |
| | Nm | 16 | 12 | 26 | 19 | 34 | 27 |
| 3/8-16 | ft-lb | 20 | 15 | 30 | 23 | 45 | 35 |
| | Nm | 27 | 20 | 41 | 31 | 61 | 47 |
| 3/8-24 | ft-lb | 23 | 17 | 35 | 25 | 50 | 35 |
| | Nm | 31 | 23 | 47 | 34 | 68 | 47 |
| 7/16-14 | ft-lb | 32 | 24 | 50 | 35 | 70 | 55 |
| | Nm | 43 | 33 | 68 | 47 | 95 | 75 |
| 7/16-20 | ft-lb | 36 | 27 | 55 | 40 | 80 | 60 |
| | Nm | 49 | 37 | 75 | 54 | 108 | 81 |
| 1/2-13 | ft-lb | 50 | 35 | 75 | 55 | 110 | 80 |
| | Nm | 68 | 47 | 102 | 75 | 149 | 108 |
| 1/2-20 | ft-lb | 55 | 40 | 90 | 65 | 120 | 90 |
| | Nm | 75 | 54 | 122 | 88 | 163 | 122 |

| Size | Torque Type | SAE 2 | | SAE 5 | | SAE 8 | |
|---|---|---|---|---|---|---|---|
| | | Dry | Lubed | Dry | Lubed | Dry | Lubed |
| 9/16-12 | ft-lb | 70 | 55 | 110 | 80 | 150 | 110 |
| | Nm | 95 | 75 | 149 | 108 | 203 | 149 |
| 9/16-18 | ft-lb | 80 | 60 | 120 | 90 | 170 | 130 |
| | Nm | 108 | 81 | 163 | 122 | 230 | 176 |
| 5/8-11 | ft-lb | 100 | 75 | 150 | 110 | 220 | 170 |
| | Nm | 136 | 102 | 203 | 149 | 298 | 230 |
| 5/8-18 | ft-lb | 110 | 85 | 180 | 130 | 240 | 180 |
| | Nm | 149 | 115 | 244 | 176 | 325 | 244 |
| 3/4-10 | ft-lb | 175 | 130 | 260 | 200 | 380 | 280 |
| | Nm | 237 | 176 | 353 | 271 | 515 | 380 |
| 3/4-16 | ft-lb | 200 | 150 | 300 | 220 | 420 | 320 |
| | Nm | 271 | 203 | 407 | 298 | 569 | 434 |
| 7/8-9 | ft-lb | 170 | 125 | 430 | 320 | 600 | 460 |
| | Nm | 230 | 169 | 583 | 434 | 813 | 624 |
| 7/8-14 | ft-lb | 180 | 140 | 470 | 360 | 660 | 500 |
| | Nm | 244 | 190 | 637 | 488 | 895 | 678 |
| 1-8 | ft-lb | 250 | 190 | 640 | 480 | 900 | 680 |
| | Nm | 339 | 258 | 868 | 651 | 1220 | 922 |
| 1-12 | ft-lb | 270 | 210 | 710 | 530 | 1000 | 740 |
| | Nm | 366 | 285 | 963 | 719 | 1356 | 1003 |
| 1-14 | ft-lb | 280 | 210 | 730 | 540 | 1020 | 760 |
| | Nm | 380 | 285 | 990 | 732 | 1383 | 1030 |
| 1 1/8-7 | ft-lb | 350 | 270 | 800 | 600 | 1280 | 960 |
| | Nm | 475 | 366 | 1085 | 813 | 1735 | 1302 |
| 1 1/8-12 | ft-lb | 400 | 300 | 880 | 660 | 1440 | 1080 |
| | Nm | 542 | 407 | 1193 | 895 | 1952 | 1464 |
| 1 1/4-7 | ft-lb | 500 | 380 | 1120 | 840 | 1820 | 1360 |
| | Nm | 678 | 515 | 1519 | 1139 | 2468 | 1844 |
| 1 1/4-12 | ft-lb | 550 | 420 | 1240 | 920 | 2000 | 1500 |
| | Nm | 746 | 569 | 1681 | 1247 | 2712 | 2034 |
| 1 3/8-6 | ft-lb | 670 | 490 | 1460 | 1100 | 2380 | 1780 |
| | Nm | 908 | 664 | 1979 | 1491 | 3227 | 2413 |
| 1 3/8-12 | ft-lb | 750 | 560 | 1680 | 1260 | 2720 | 2040 |
| | Nm | 1017 | 759 | 2278 | 1708 | 3688 | 2766 |
| 1 1/2-6 | ft-lb | 870 | 650 | 1940 | 1460 | 3160 | 2360 |
| | Nm | 1180 | 881 | 2630 | 1979 | 4284 | 3200 |
| 1 1/2-12 | ft-lb | 980 | 730 | 2200 | 1640 | 3560 | 2660 |
| | Nm | 1329 | 990 | 2983 | 2224 | 4827 | 3606 |

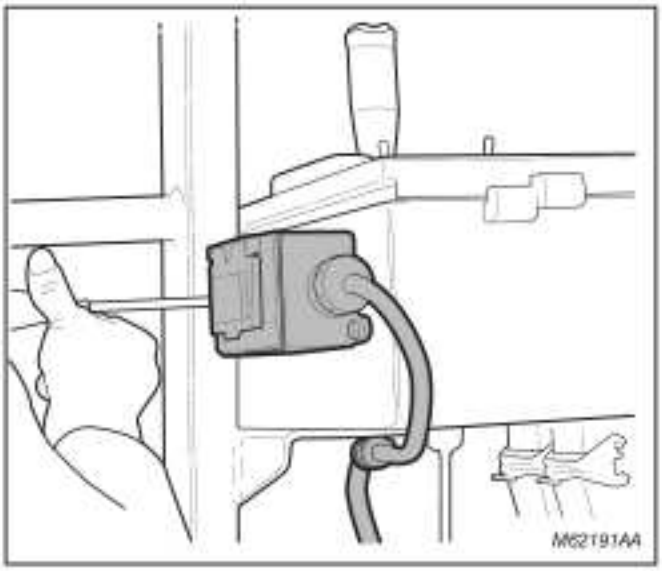
**NOTE:** *Lubed includes lubricants such as lubrizing, oil, grease, and some uncured thread lockers. Refer to the specific thread locker manufacturer's instructions for specific torque adjustments.*

*1374AB*

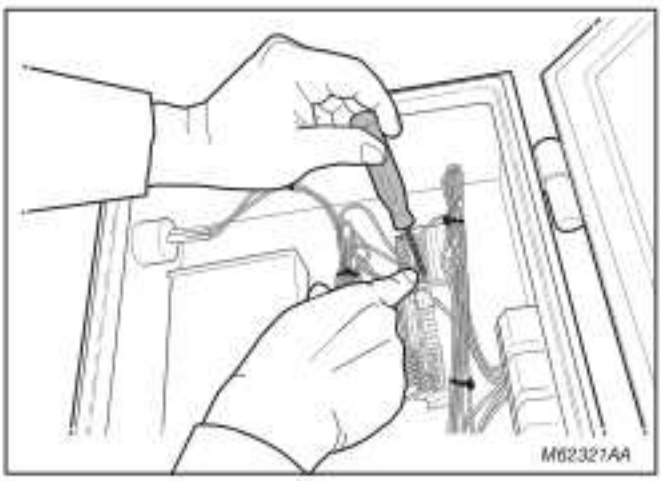


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2. Remove the auxiliary AC receptacle box (if equipped) if its harness is bundled with the other harnesses. Remove the harness clamps.

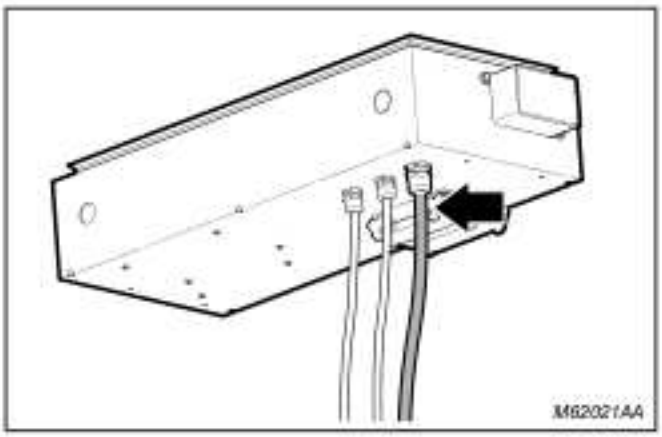



3. Open the control console lid to disconnect the jib and platform rotate harness.
4. Remove tie wraps and make note of wire labels for reinstallation.
5. To release each wire, insert a small flat screwdriver into the slot beside it in the terminal strip.




***Control Console***

6. Pull the disconnected harness out of the strain relief connector in the box.




7. Pull all harnesses through the cable guard on the swivel joint.
8. Remove the hoses and wire cables from the P-clamp on the side of the fly boom.



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## 5.7-9 Deutz TCD2.2 Diagnoses and Error Codes

| Code | FTB | SPN | FMI | Error Identification |
|---|---|---|---|---|
| 818 | 0 | 5360 | 5 | Open load on the power stage of injection valve 2. |
| 819 | 0 | 5361 | 5 | Open load on the power stage of injection valve 3. |
| 820 | 0 | 5362 | 5 | Open load on the power stage of injection valve 4. |
| 821 | 0 | 5363 | 5 | Open load on the power stage of injection valve 5. |
| 822 | 0 | 2797 | 6 | Short circuit of the HDEV power stage high-side (bank0 error). |
| 823 | 0 | 2798 | 6 | Short circuit of the HDEV power stage high-side (bank1 error). |
| 824 | 0 | 5358 | 6 | Short circuit of the power stage low-side (cylinder error 0). |
| 825 | 0 | 5359 | 6 | Short circuit of the power stage low-side (cylinder error 1). |
| 826 | 0 | 5360 | 6 | Short circuit of the power stage low-side (cylinder error 2). |
| 827 | 0 | 5361 | 6 | Short circuit of the power stage low-side (cylinder error 3). |
| 828 | 0 | 5362 | 6 | Short circuit of the power stage low-side (cylinder error 4). |
| 829 | 0 | 5363 | 6 | Short circuit of the power stage low-side (cylinder error 5). |
| 83 | 0 | 111 | 1 | Coolant level too low. |
| 830 | 0 | 5358 | 6 | Short circuit between high-side and low-side of the power stage (high-side non plausible error). |
| 831 | 0 | 5359 | 6 | Short circuit between high-side and low-side of the power stage (high-side non plausible error). |
| 832 | 0 | 5360 | 6 | Short circuit between high-side and low-side of the power stage (high-side non plausible error). |
| 833 | 0 | 5361 | 6 | Short circuit between high-side and low-side of the power stage (high-side non plausible error). |
| 834 | 0 | 5362 | 6 | Short circuit between high-side and low-side of the power stage (high-side non plausible error). |
| 835 | 0 | 5363 | 6 | Short circuit between high-side and low-side of the power stage (high-side non plausible error). |
| 836 | 0 | 105 | 3 | Signal Range Check high for intake valve upstream temperature. |
| 837 | 0 | 105 | 4 | Signal Range Check Low for intake valve upstream temperature. |
| 838 | 0 | 2797 | 14 | Check of missing injector adjustment value programming (IMA) injector 1. |
| 839 | 0 | 2798 | 14 | Check of missing injector adjustment value programming (IMA) injector 2. |
| 840 | 0 | 4257 | 14 | Check of missing injector adjustment value programming (IMA) injector 3. |
| 841 | 0 | 4258 | 14 | Check of missing injector adjustment value programming (IMA) injector 4. |
| 853 | 0 | 0 | 0 | |
| 854 | 0 | 7103 | 5 | Open load diagnosis of MeUn power stage. |
| 855 | 0 | 7103 | 3 | Short circuit to battery on the high side power stage of MeUn. |
| 856 | 0 | 7103 | 3 | Short circuit to battery on the low side power stage of MeUn. |
| 857 | 0 | 7103 | 4 | Short circuit to ground on the high side power stage of MeUn. |
| 858 | 0 | 7103 | 4 | Short circuit to ground on the low side power stage of MeUn. |
| 859 | 0 | 7103 | 6 | Short circuit between high side and low side power stage of MeUn. |
| 868 | 0 | 629 | 12 | Function monitoring: fault of ECU ADC – Null Load Test Pulse. |

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## Standstill Regeneration Stages

| Standstill Lamps ❹ | Engine Lamp ❺ | Audible Alarm ❻ | Engine Torque | Action Required |
|---|---|---|---|---|
| Flashes slowly | Off | Pulsates slowly | 100% | Do the standstill operation at the next available opportunity, within 3 to 4 hours. |
| Flashes slowly | On | Pulsates slowly | 75% | Do the standstill operation immediately. |
| Flashes quickly | Flashes | Pulsates quickly | 40% | a. The standstill operation is no longer possible with on-machine controls. Contact an authorized repair facility. |
| | | | | b. Failure to do the standstill has caused diesel particulate filter failure, and regeneration is no longer possible. Contact an authorized repair facility to replace the filter. |

## Do the Standstill Regeneration

1. Move the MEWP to an open, well-ventilated area, away from any flammable material. Park it on a firm level surface, and fully stow the MEWP.
2. While the engine runs, turn the off/base/platform switch ❼ on the base controls to the base position.
3. Move the standstill switch ❽ on the base controls to the right to start the standstill regeneration. The base functions will not operate while the standstill switch is turned on.
4. On the engine display module ❷ press and hold the middle button ❾ (below the regeneration symbol) for 7 seconds.

### ⚠ WARNING

**Do not touch hot engine components. Serious injury can occur if you touch hot surfaces.**

5. The engine display module changes to the Regeneration Ongoing symbol ❿, the standstill lights illuminate continuously, and the engine speed can change.
6. Standstill regeneration takes approximately 45 minutes. During this time you must not use the MEWP.

### IMPORTANT

**Complete the standstill regeneration fully. If you interrupt the process, the standstill request continues.**

7. When the standstill regeneration is complete, the Regeneration Ongoing symbol changes to Regeneration Complete ⓫, the standstill lights ❸❹ go off, and the engine speed goes back to normal.
8. Move the standstill switch to the left. You can use the MEWP normally.

### IMPORTANT

**Only use the standstill regeneration override switch ⓬ on the front of the platform control box when absolutely necessary to move the MEWP to park it in a safe location when the derated engine torque/rpm prevents sufficient torque to drive the MEWP.**

**It temporarily (for approximately 30 minutes) restores full engine power and speed.**

**Use of the derate override switch can cause diesel particulate filter failure.**



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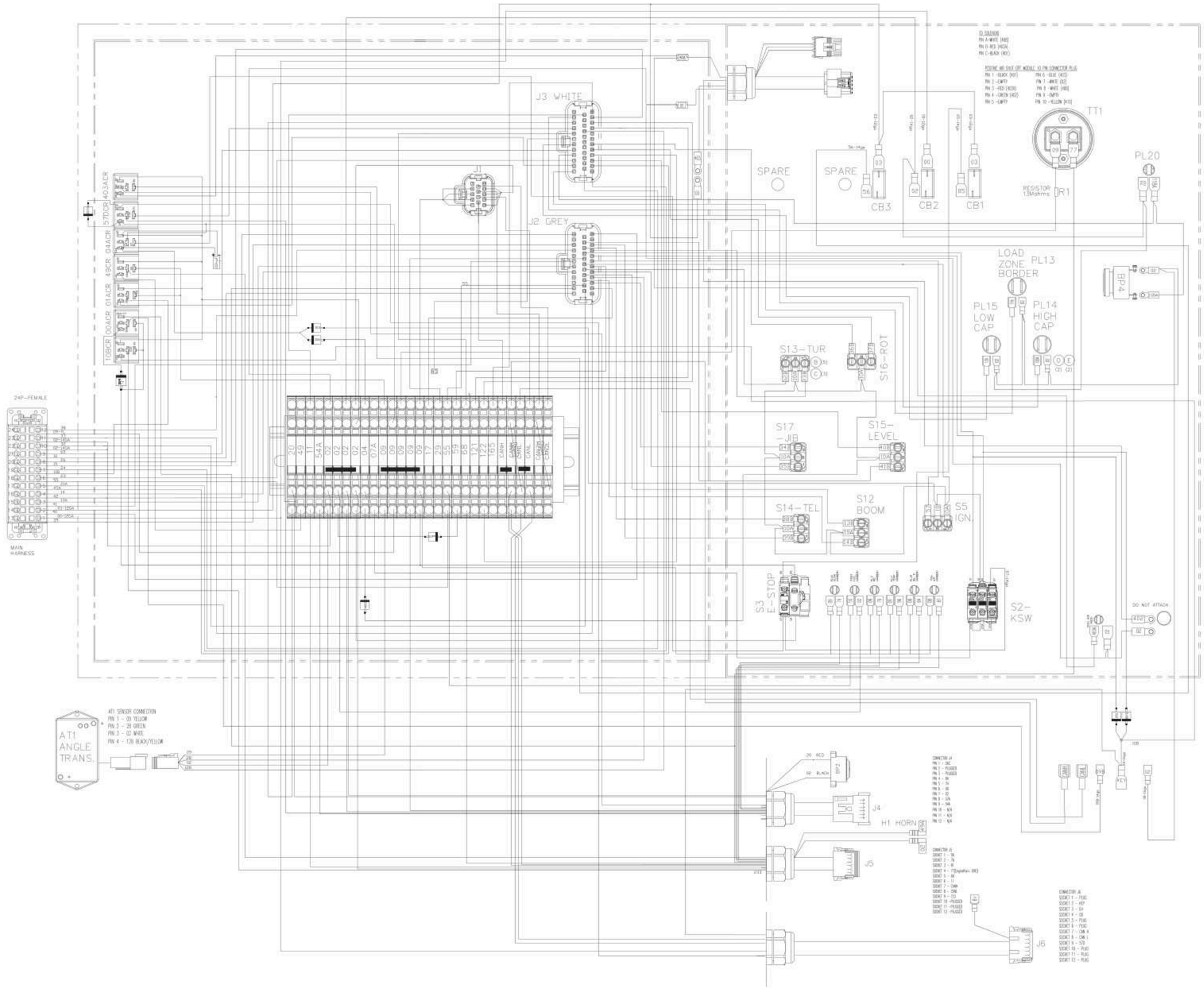
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## 3.51 Base Controls Wiring - SJ66 T+ ANSI/CSA & AS with Positive Air Shut-Off Option serial number A401 001 520 and above

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

*Wire Number and Colour Chart*

*Relay diagram*




3.51 Base Controls Wiring - SJ66 T+ ANSI/ CSA & AS with Positive Air Shut-Off Option serial number A401 001 520 and above

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