# SERVICE MANUAL

## E18C Cab - Tier IV engine
## E18C Canopy - Tier IV engine

Print No. 48139696

NEW HOLLAND CONSTRUCTION

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# Swing reduction motor - Troubleshooting

| Problem | Possible Cause | Correction |
|---|---|---|
| **Motor does not move. The supplied pressure is enough.** | Setting pressure of the relief valve is too low. | Replace the relief valve assembly. |
| | Faulty operation of the relief valve. | Replace the relief valve assembly. |
| | Burned inner parts of the hydraulic motor. | Replace the hydraulic motor assembly. |
| | Too much internal leakage of the hydraulic motor. | Replace the hydraulic motor assembly. |
| | Damage to the gears of the reduction gear. | Replace the reduction gear assembly. |
| | Overload of the hydraulic motor. | Remove the overload. |
| **Insufficient torque** | Setting pressure of the relief valve is too low. | Replace the relief valve assembly. |
| | Faulty operation of the relief valve. | Replace the relief valve assembly. |
| | Burned sliding parts of the hydraulic motor. | Replace the hydraulic motor assembly. |
| | Too much internal leakage. of the hydraulic motor. | Replace the hydraulic motor assembly. |
| | Damage to the gears of the reduction gear. | Replace the pinion kit, carrier kit. |
| | Damage to bearings of the reduction gear. | Replace the pinion kit, carrier kit. |
| **Abnormal noise** | Cavitation noise, insufficient flow. | Adjust the piping. |
| | Damage to sliding parts of the hydraulic motor. | Replace the hydraulic motor assembly. |
| | Damage to the gears of the reduction gear. | Replace the pinion kit, carrier kit. |
| | Damage to bearings of the reduction gear. | Replace the pinion kit, carrier kit. |
| | Damage to the gear surface of the pinion gear. | Replace the pinion kit. |
| **Oil leakage** | Damage to O-rings of the body. | Replace the O-ring |
| | Bolts of the body are loosen. | Re-tighten the bolts. |
| | Damage to oil seal of the pinion gear. | Replace the pinion kit. |
| **Delay in start up, or delay in stopping** | Faulty operation of the relief valve. | Replace the relief valve assembly. |
| | Internal leakage of the check valve. | Replace the body H kit. |
| **Excessive heat generation** | Burned or damaged sliding parts of the hydraulic motor. | Replace the hydraulic motor assembly. |
| | Damage to the gears of the reduction gear. | Replace the pinion kit, carrier kit. |
| | Damage to bearings of the reduction gear. | Replace the pinion kit, carrier kit. |



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# Counterweight - Install

1. Lift the counterweight **(3)** and place it on the machine.

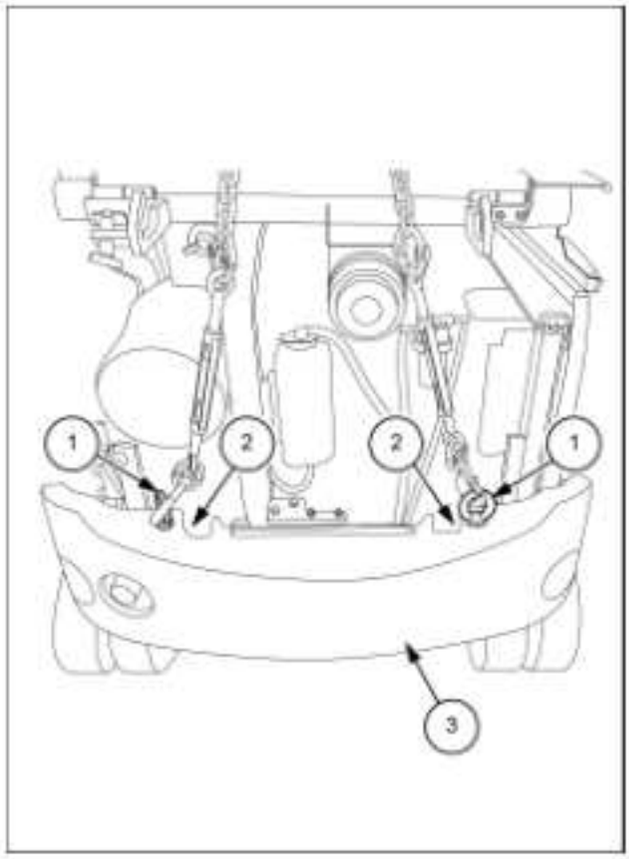
***NOTE:*** *the weight of the counterweight is approximately* ***60 kg*** *(****132 lb****).*

2. Use a wrench [ **30 mm**] to tighten the bolts **(2)** of the counterweight **(3)**.

   Tighten the bolts **(2)** to: **247.4 – 335.6 N·m (182.5 – 247.5 lb ft)**

3. Install the engine hood (refer to **Hood - Install (90.100)**).

4. Install the side panels (refer to **Side shields - Remove (90.105)**).




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| Components | Connectors/link | Type | Description |
|---|---|---|---|
| CL-2 | **CL-2** | AMP connector | Cigar lighter |
| CL-3 | **CL-3** | DEUTSCH connector | Cab lamp |
| CL-4 | **CL-4** | DEUTSCH connector | Head lamp |
| CL-5 | **CL-5** | DEUTSCH connector | Work lamp (boom) |
| CN-2 | **CN-2** | AMP connector | Intermediate connector: main harness - fuse box |
| CN-3 | **CN-3** | AMP connector | Intermediate connector: main harness - left-hand console harness |
| CN-4 | **CN-4** | AMP connector | Intermediate connector: right-hand console harness - main harness |
| CN-5 | **CN-5** | AMP connector | Intermediate connector: main harness - right-hand console harness |
| CN-11 | **CN-11** | AMP connector | Intermediate connector: right-hand console harness - cab harness |
| CN-27 | **CN-27** | Connector | Radio/USB player |
| CN-36 | **CN-36** | Connector | Fuse box |
| CN-139 | **CN-139** | AMP connector | **12 V** socket |
| CS-21 | **CS-21** | SWF connector | Light switch |
| CS-67 | **CS-67** | SWF connector | Quick coupler switch |



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