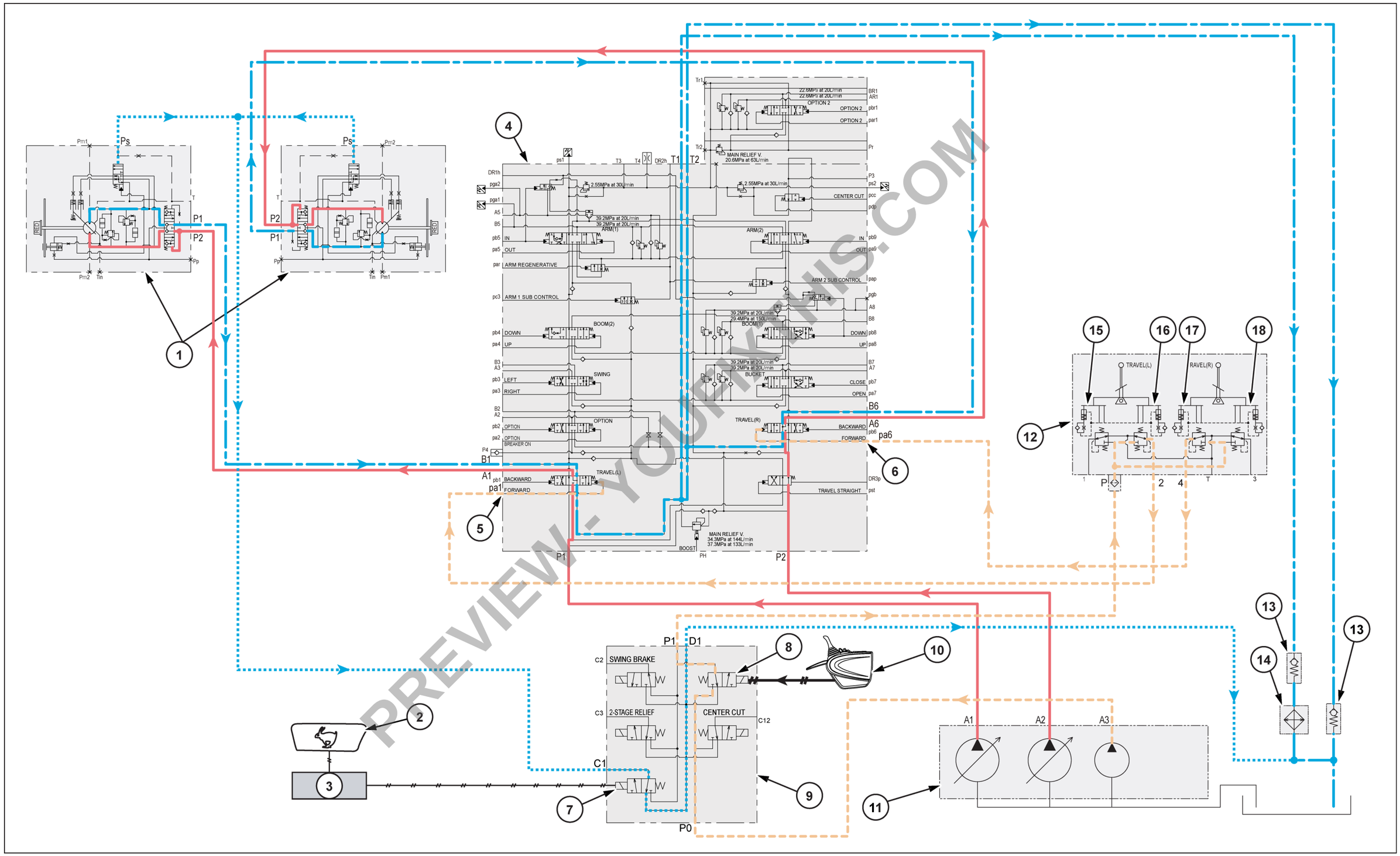
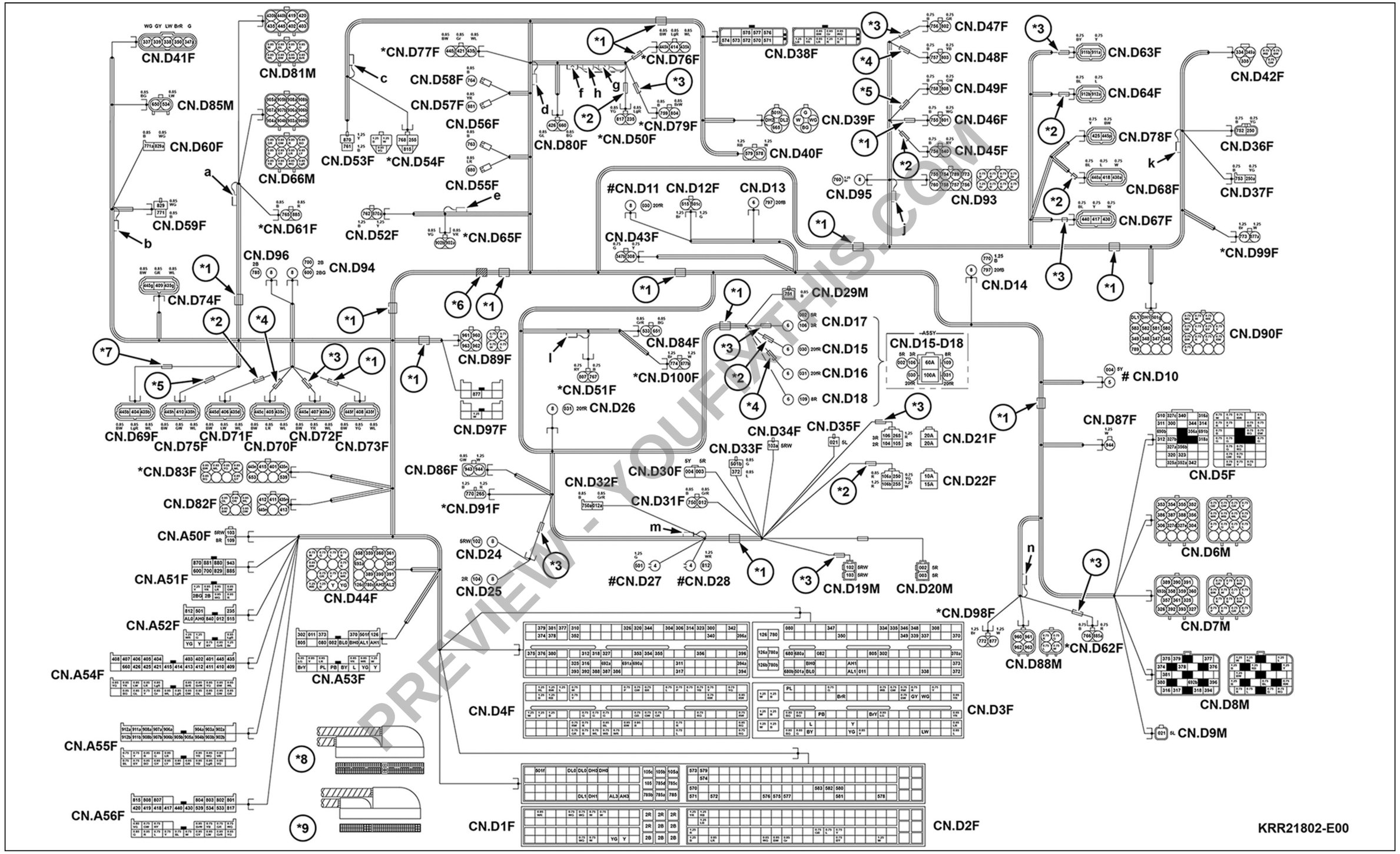


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Torque - Special torque setting

Code	Retightening location		Bolt nominal diameter	Wrench	Tightening torque
1*	Travel motor		**M16**	**24 mm**	**267 - 312 N·m (196.93 - 230.12 lb ft)**
2*	Drive sprocket		**M16**	**24 mm**	**267 - 312 N·m (196.93 - 230.12 lb ft)**
3*	Take-up roller		**M16**	**24 mm**	**267 - 312 N·m (196.93 - 230.12 lb ft)**
4*	Upper roller		**M20**	**30 mm**	**521 - 608 N·m (384.27 - 448.44 lb ft)**
5*	Lower roller		**M18**	**27 mm**	**371 - 432 N·m (273.64 - 318.63 lb ft)**
6*	Track guard		**M18**	**27 mm**	**400 - 462 N·m (295.02 - 340.75 lb ft)**
7	Shoe		**M20**	**30 mm**	**250 - 350 N·m (184.39 - 258.15 lb ft)**
8	Counterweight		**M33**	**50 mm**	**1950 - 2156 N·m (1438.25 - 1590.18 lb ft)**
9*	Turntable bearing		**M24**	**36 mm**	**784 - 914 N·m (578.25 - 674.13 lb ft)**
10*	Swing unit		**M24**	**36 mm**	**784 - 914 N·m (578.25 - 674.13 lb ft)**
11*	Engine	Mount	**M16**	**24 mm**	**264.9 - 313.9 N·m (195.38 - 231.52 lb ft)**
12*		Front bracket	**M10**	**17 mm**	**63.8 - 73.6 N·m (47.06 - 54.28 lb ft)**
13*		Rear bracket	**M16**	**24 mm**	**205.9 - 247.1 N·m (151.86 - 182.25 lb ft)**
14*	Radiator		**M16**	**24 mm**	**147.2 - 176.6 N·m (108.57 - 130.25 lb ft)**
15*	Hydraulic pump	Pump	**M20**	**17 mm** hexagon socket head	**367 - 496 N·m (270.69 - 365.83 lb ft)**
16*	Hydraulic oil tank		**M16**	**24 mm**	**232.4 - 276 N·m (171.41 - 203.57 lb ft)**
17*	Fuel tank		**M16**	**24 mm**	**232.4 - 276 N·m (171.41 - 203.57 lb ft)**
18*	Control valve		**M16**	**24 mm**	**267 - 312 N·m (196.93 - 230.12 lb ft)**
19*	Center Joint	Lock bar	**M12**	**19 mm**	**88.3 - 107 N·m (65.13 - 78.92 lb ft)**
20*		Joint	**M12**	**19 mm**	**109 - 127 N·m (80.39 - 93.67 lb ft)**
21	Cab		**M16**	**24 mm**	**149 - 173 N·m (109.90 - 127.60 lb ft)**
22	Battery		**M10**	**17 mm**	**19.6 - 29.4 N·m (14.46 - 21.68 lb ft)**

NOTE: *Make sure to apply* ***LOCTITE® 262™*** *or equivalent to the locations with the * mark, and tighten according to the specified torque.*

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P1404-Exhaust gas recirculation 1 closed position performance

Control Module : ECM

Solution:

1. Check and diagnose the below fault codes before you proceed with the diagnostics code P1404.

   Diagnostic trouble code P0404
   Diagnostic trouble code P0409

2. Remove the EGR valve assembly from the engine. (Refer to " **Exhaust Gas Recirculation (EGR) valve - Remove (10.501)**")

   Inspect the EGR valve.

   There should be nothing to limit flow inside the EGR valve.

   • Make sure that there is no excessive accumulates inside the EGR valve.

   • Make sure that there is no bending with the valve shaft or valve itself inside the EGR valve.

   A. If a problem is found,repair or replace the EGR valve. (Refer to " **Exhaust Gas Recirculation (EGR) valve - Remove (10.501)** and **Exhaust Gas Recirculation (EGR) valve - Install (10.501)**")

   B. If there are no problems, proceed to Step **3**

3. Turn OFF the ignition switch.

   Disconnect the harness connector **CN.E12** from the EGR valve.

   Inspect the EGR valve harness connector **CN.E12** for a poor connection.

   A. If a problem is found, repair the harness connector **CN.E12**.

   B. If there are no problems, proceed to Step **4**

4. Disconnect the harness connector **CN.D4** from the ECM.

   Inspect the ECM harness connector **CN.D4** for a poor connection.

   A. If a problem is found, the harness connector **CN.D4**.

   B. If there are no problems, proceed to Step **5**

5. Inspect the EGR valve circuit between the ECM and the EGR valve for an open circuit and high resistance.

   A. If a problem is found, repair the EGR valve circuit.

   B. If there are no problems, proceed to Step **6**

6. Inspect the motor circuit between the ECM and EGR valve.

   • Make sure that there is no short to GND.

   • Make sure that there is no short to the battery or ignition power supply.

   • Make sure that there is no short to other circuits.

   • Make sure that there is no short to EGR position sensor circuit.

   A. If a problem is found, repair the motor circuit.

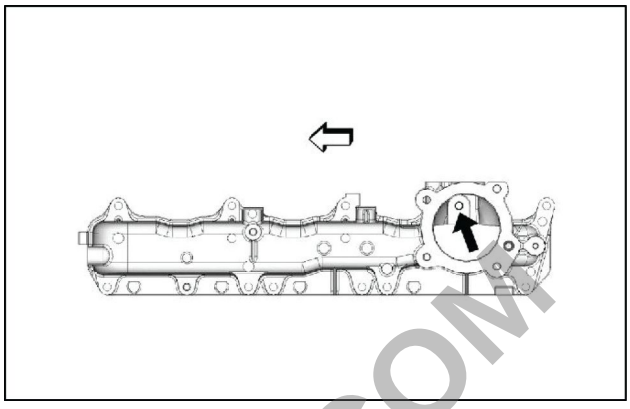
   B. If the circuit is normal, replace the EGR valve. (Refer to " **Exhaust Gas Recirculation (EGR) valve - Remove (10.501)** and **Exhaust Gas Recirculation (EGR) valve - Install (10.501)**")

7. Confirm resolution:

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2. Temporarily tighten the inlet cover **(4)** to the cylinder head assembly.

NOTE: *Do not forget to install the bolts indicated by the arrow in the diagram. Completely tighten the installation bolt and nut when installing the common rail assembly.*



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3. Install the case **(2)** with the gasket **(3)** to the inlet cover **(4)**.

   Tightening torque: **22 N·m** (**16.23 lb ft**)

   Install it together with the EGR pipe D **(1)**.

Engine hanger bracket installation

1. Install the front engine hanger bracket **(2)** to the cylinder head assembly.

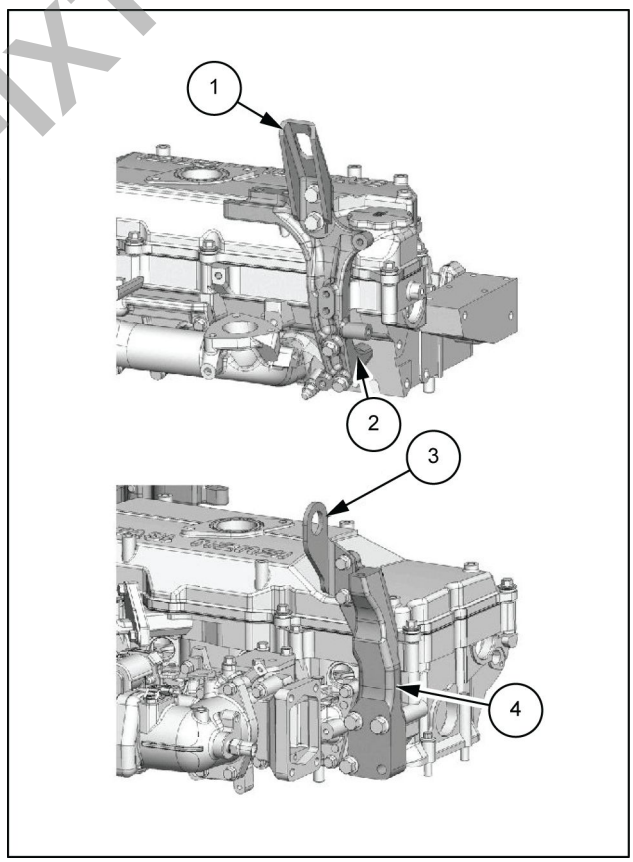
   Tightening torque: **104 N·m** (**76.71 lb ft**) Front engine hanger bracket **(2)**

   Tightening torque: **48 N·m** (**35.40 lb ft**) Front engine hanger **(1)**

2. Install the rear engine hanger bracket **(4)** to the cylinder head assembly.

   Tightening torque: **104 N·m** (**76.71 lb ft**) Rear engine hanger bracket **(4)**

   Tightening torque: **48 N·m** (**35.40 lb ft**) Rear engine hanger **(3)**

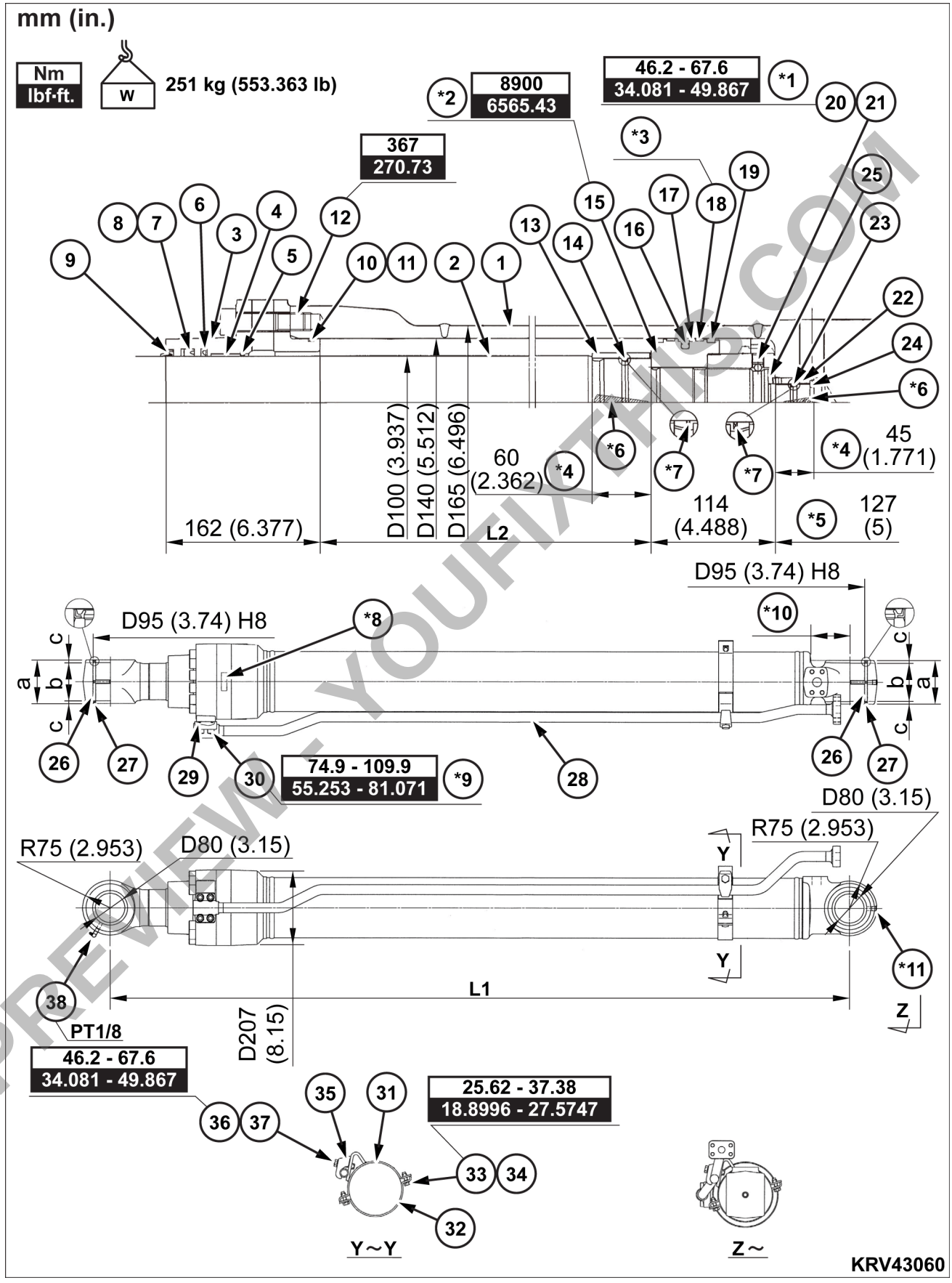


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Dipper cylinder - Sectional view



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NOTE: *All the dimensions in figure are in mm (in).*

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