SERVICE MANUAL

E37C
Mini Excavator

Part number 51487933
English
August 2018

NEW HOLLAND CONSTRUCTION

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Counterweight - Install

⚠ WARNING

Avoid injury!
Shut off the engine, remove the key, and make sure all machine motion stops before you service the machine.
Failure to comply could result in death or serious injury.

W0128B

⚠ WARNING

Avoid injury!
Use Personal Protective Equipment (PPE), including protective goggles, gloves, and safety footwear.
Failure to comply could result in death or serious injury.

W0038A

⚠ WARNING

Crushing hazard!
The lifting systems must be operated by qualified personnel who are aware of the correct procedures to follow. Make sure all lifting equipment is in good condition, and all hooks are equipped with safety latches.
Failure to comply could result in death or serious injury.

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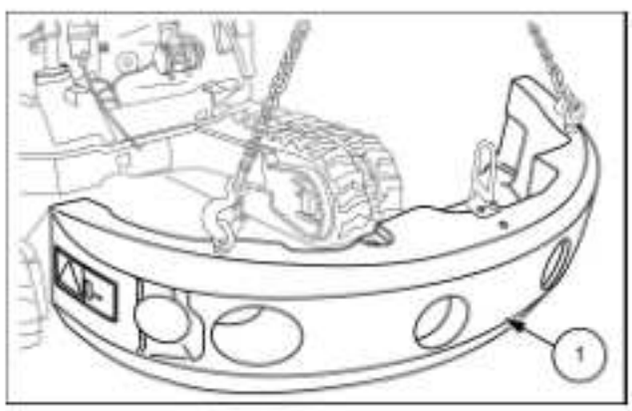
⚠ WARNING

Heavy objects!
Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders.
Failure to comply could result in death or serious injury.

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

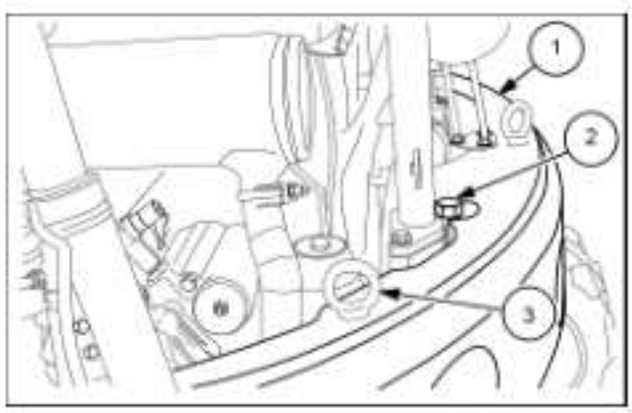
NOTE: *the weight of the counterweight is approximately* ***410 kg (903.9 lb)***.



2. Use a wrench [**30 mm**] to tighten the bolts **(2)** of the counterweight **(1)**.

   Tightening torque: **378.0 – 462.0 N·m**
   (278.8 – 340.8 lb ft)

3. Remove the eyebolts **(3)** and install the protective caps on the counterweight **(1)**.



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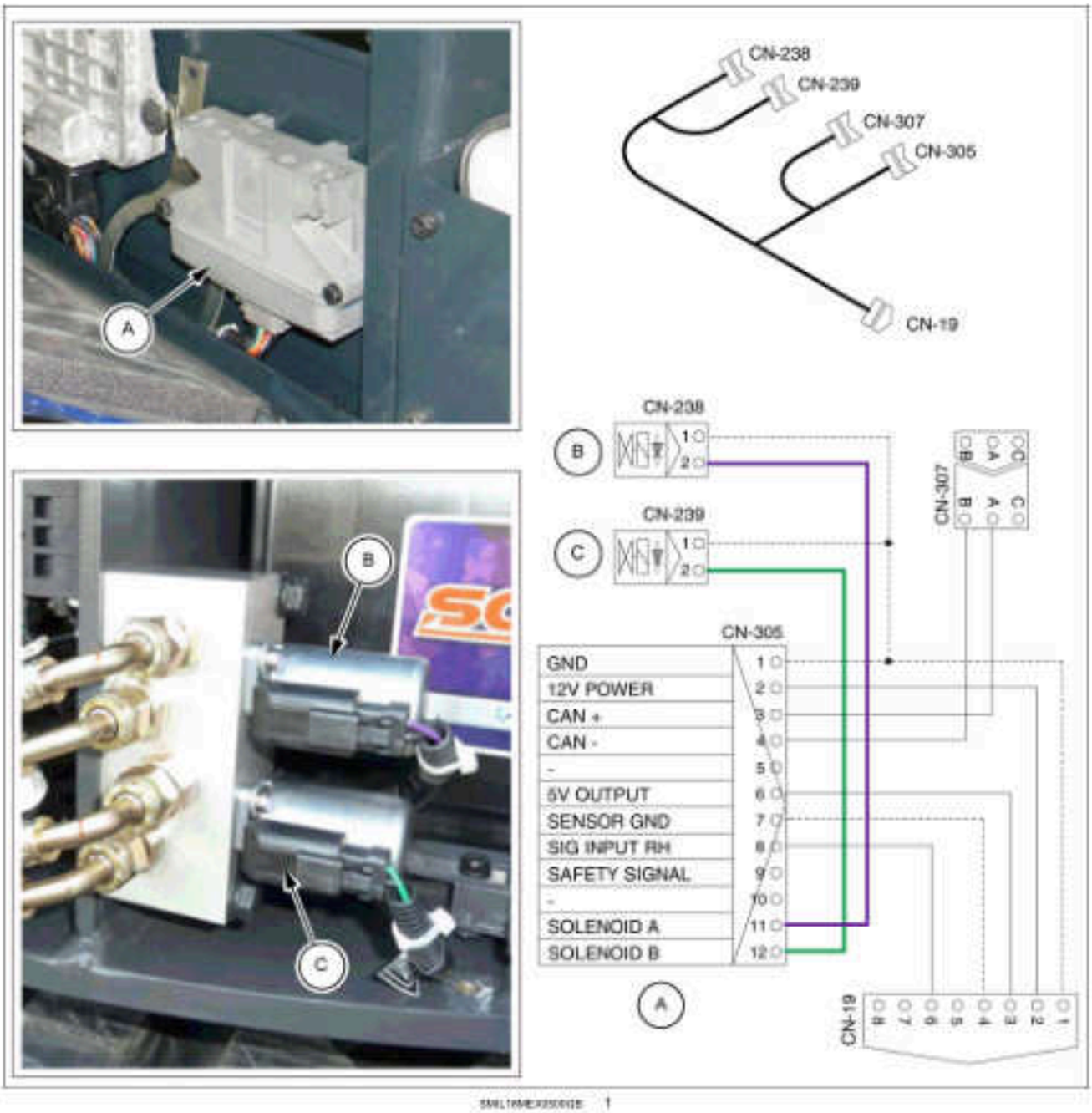
Component	Connector	Connector type
Tacho sensor	**CD-17**	SUMITOMO
Intermediate connector: right-hand console harness - main harness	**CN-1**	AMP
Intermediate connector: main harness - right-hand console harness	**CN-2**	AMP
Intermediate connector: main harness - left-hand console harness	**CN-3**	AMP
Intermediate connector: relay harness - main harness	**CN-5**	KET
Intermediate connector: relay harness - main harness	**CN-6**	AMP
Fuse box	**CN-36**	–
Instrument cluster	**CN-56**	AMP
Fusible link	**CN-60**	AMP
Safety solenoid valve	**CN-68**	DEUTSCH
Engine Control Unit (ECU)	**CN-93**	FCI
Anti-restart relay	**CR-5**	–
Engine start relay	**CR-23**	KET
Air-heater relay	**CR-24**	KET
Starter switch	**CS-2**	KET
Safety switch	**CS-4**	AMP
Starter switch	**CS-46**	KET
Master switch	**CS-74**	RING TERM
Diode	**DO-1**	–
Resister	**RS-2**	–

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Electrical system - Component identification - First auxiliary system (2-way, option)

Specification: **12 V**

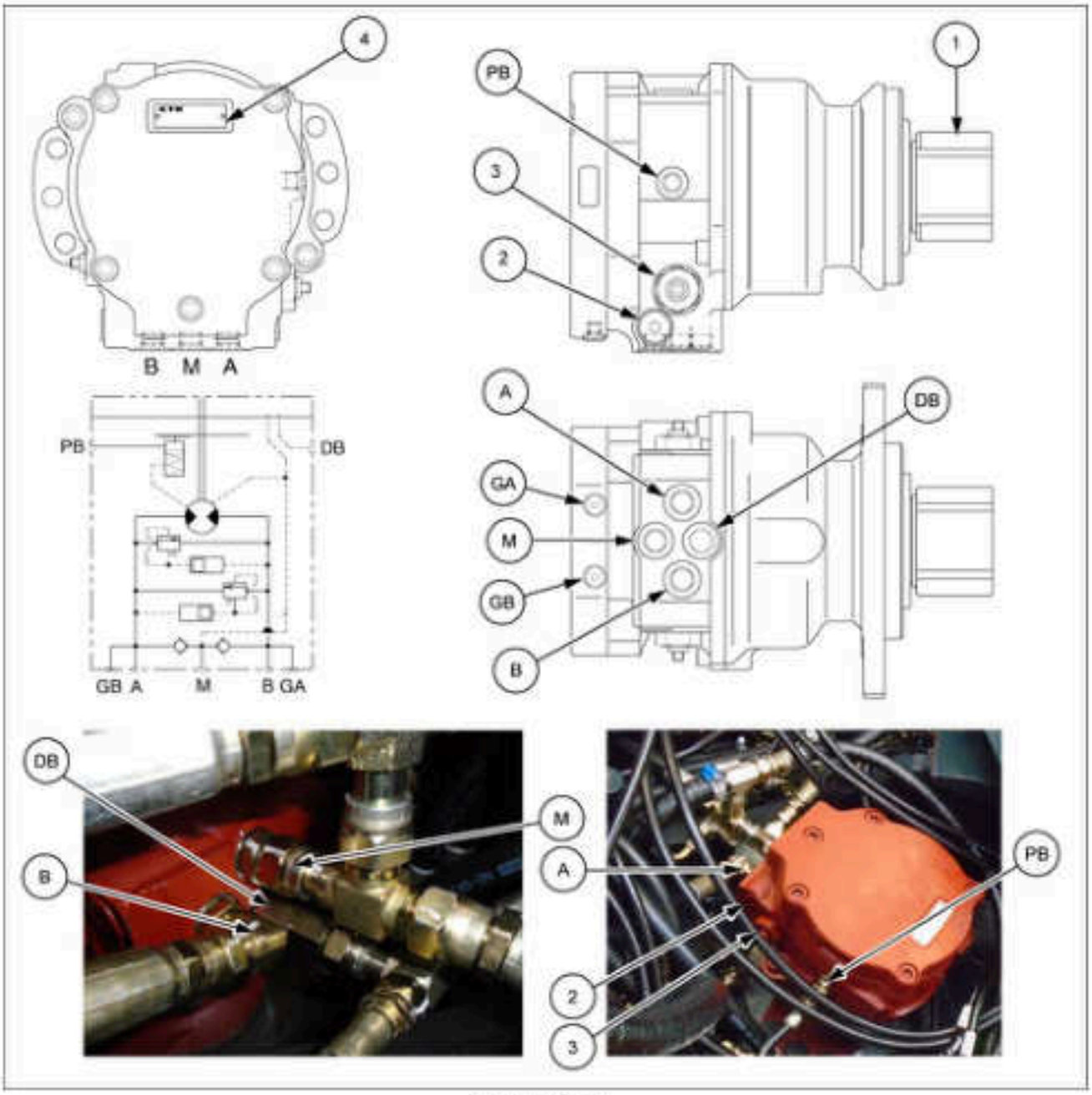
A. EPPR controller (**CN-305A**)
B. EPPR solenoid (release) (**CN-238A**)
C. EPPR solenoid (clamp) (**CN-239A**)



NOTE: *the solenoids of the EPPR valve can be of two types (version A or version B). In the figure, version A is shown.*

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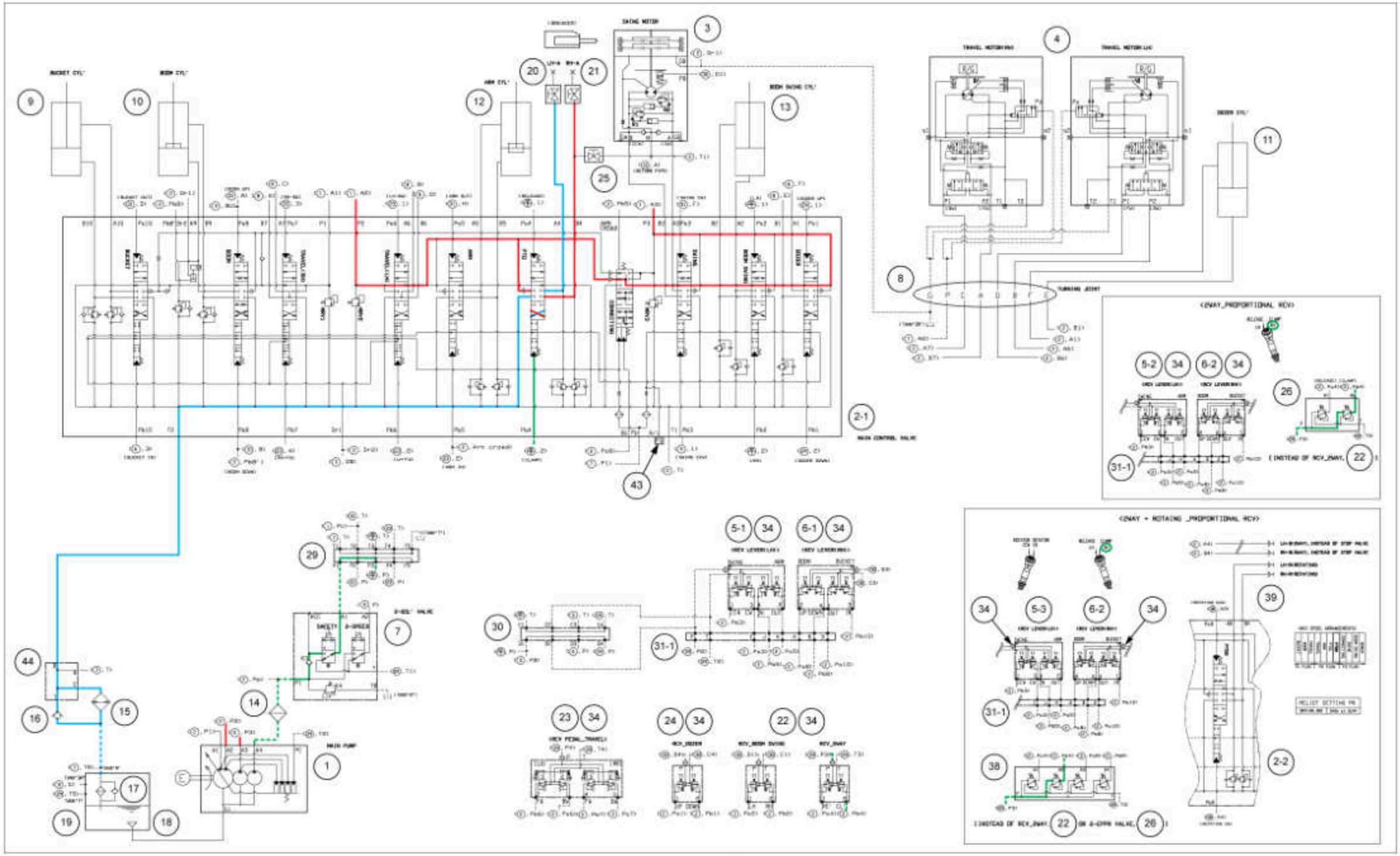
Hydraulic swing system - Overview



(1) Output shaft
(2) Check valve
(3) Relief valve
(4) Name plate

Port	Port name	Port size
A	Main port (left-hand swing)	PF 3/8
B	Main port (right-hand swing)	PF 3/8
DB	Drain port	PF 3/8
M	Make up port	PF 3/8
PB	Brake release port	PF 1/4
GA, GB	Gauge port	PF 1/8

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