CAT® Lift Trucks

Service Manual

Chassis, Mast & Options

EP10KRT	ETB10-00011-up
EP12KRT	ETB10-20001-up
EP15KRT	ETB10-50001-up

99759-65110

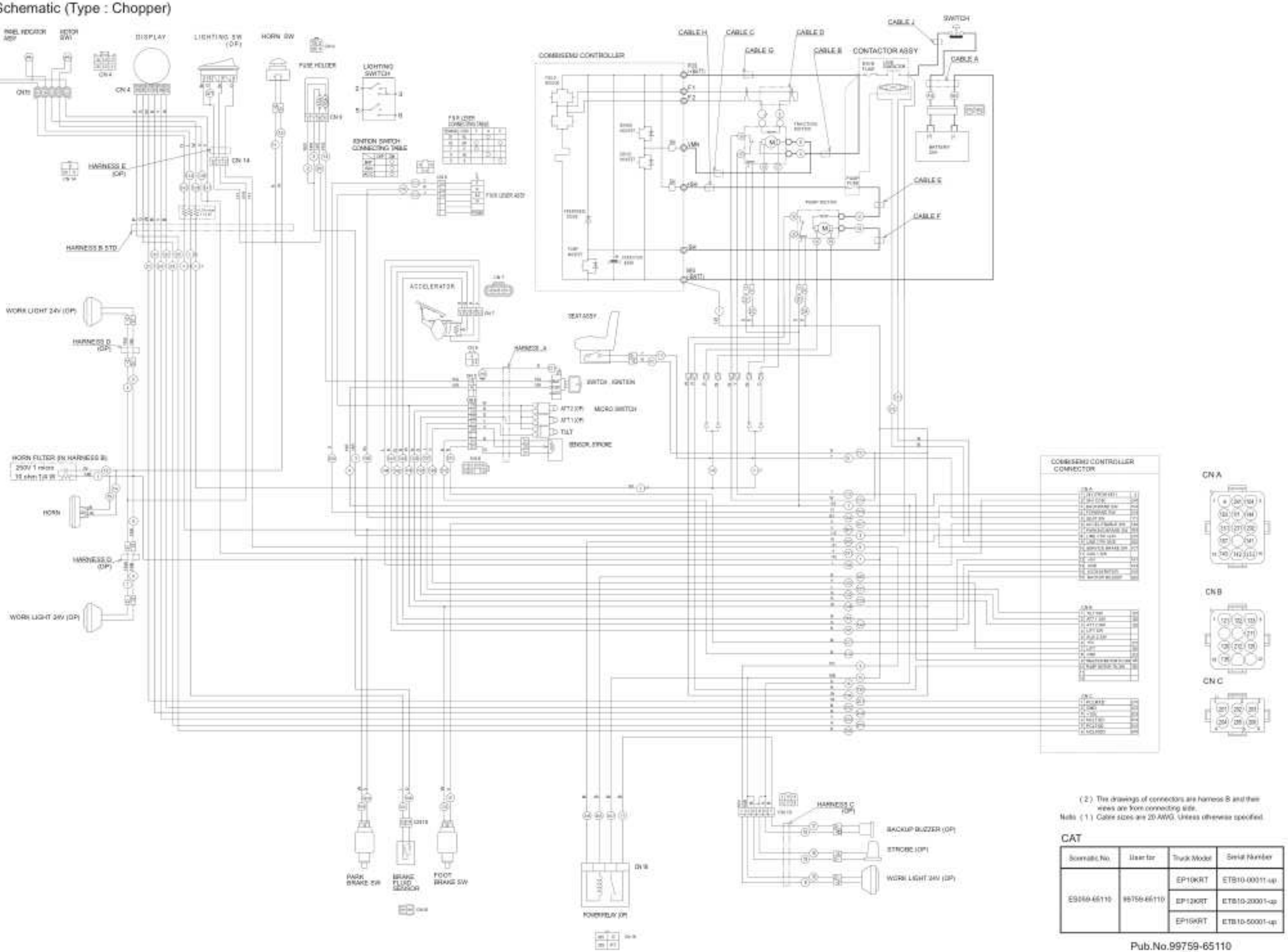
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GENERAL INFORMATION

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Electrical Schematic (Type : Chopper)



(2) The drawings of connectors are harness B and their views are from connecting side.
Notes (1) Cable sizes are 20 AWG. Unless otherwise specified.

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Schematic No.	User for	Truck Model	Serial Number
ES0759-65110	99759-65110	EP10KRT	ETB10-00001-up
		EP12KRT	ETB10-20001-up
		EP15KRT	ETB10-50001-up

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Problem: Battery Consumption

Symptom:

(1) Battery low indicator "AL066".

Poor traction power and acceleration. Lifting speed slower than normal.

Possible Cause:

(2) Much consumption with small capacity or poor battery.

Checks:

(3) Check battery voltage in case of both operating and non operating.

- Battery voltage lower than 23.6 V

  Check the following:

  Battery capacity

  Power supply to pump motor

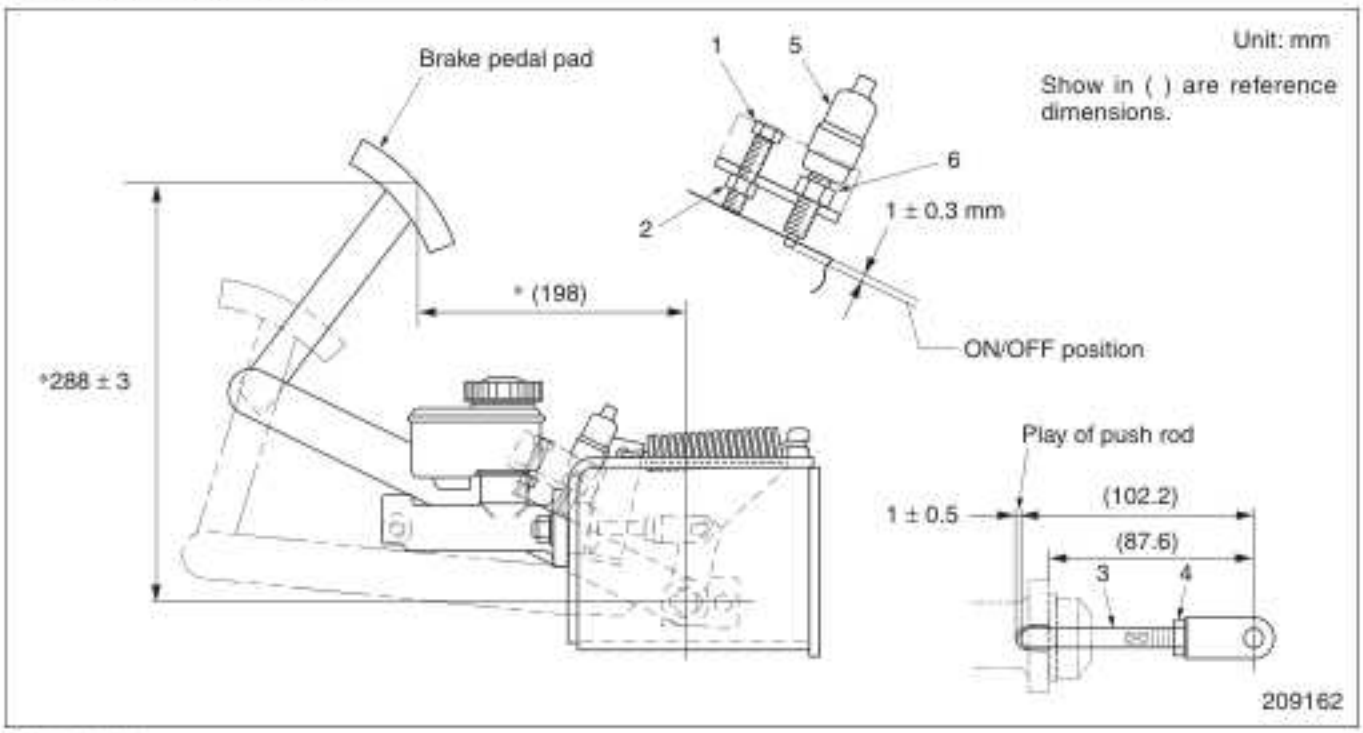
  Large cargo load

- Battery voltage higher than 23.6 V

  Replace logic card.

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1. Brake Pedal Adjustment



Sequence

1 Stopper bolt
2 Lock nut
3 Push rod
4 Lock nut
5 Brake switch
6 Lock nut

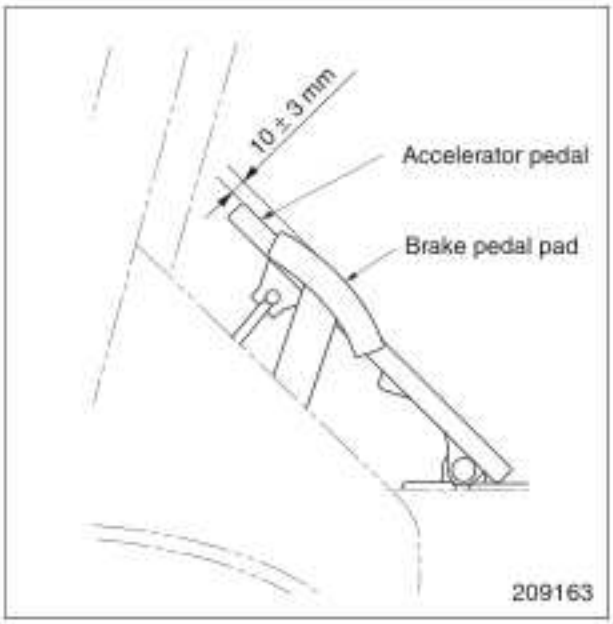
(1) Adjust the brake pedal pad position to the * marked dimensions using the stopper bolt 1.

(2) Check difference in height of the brake and accelerator pedals. The brake pedal should be higher than the accelerator pedal by 10 ± 3 mm.

If necessary, adjust the height of the brake pedal using stopper bolt 1. After adjustment, prevent the stopper bolt from turning using lock nut 2.

(3) Turn push rod 3 to adjust the clearance of its end from the piston to 1.0 ± 0.5 mm.

Retain the clevis in the adjusted position using lock nut 4. If correctly adjusted, the amount of movement of depressed pedal as measured at the top of the pedal pad should be 3 to 10 mm.

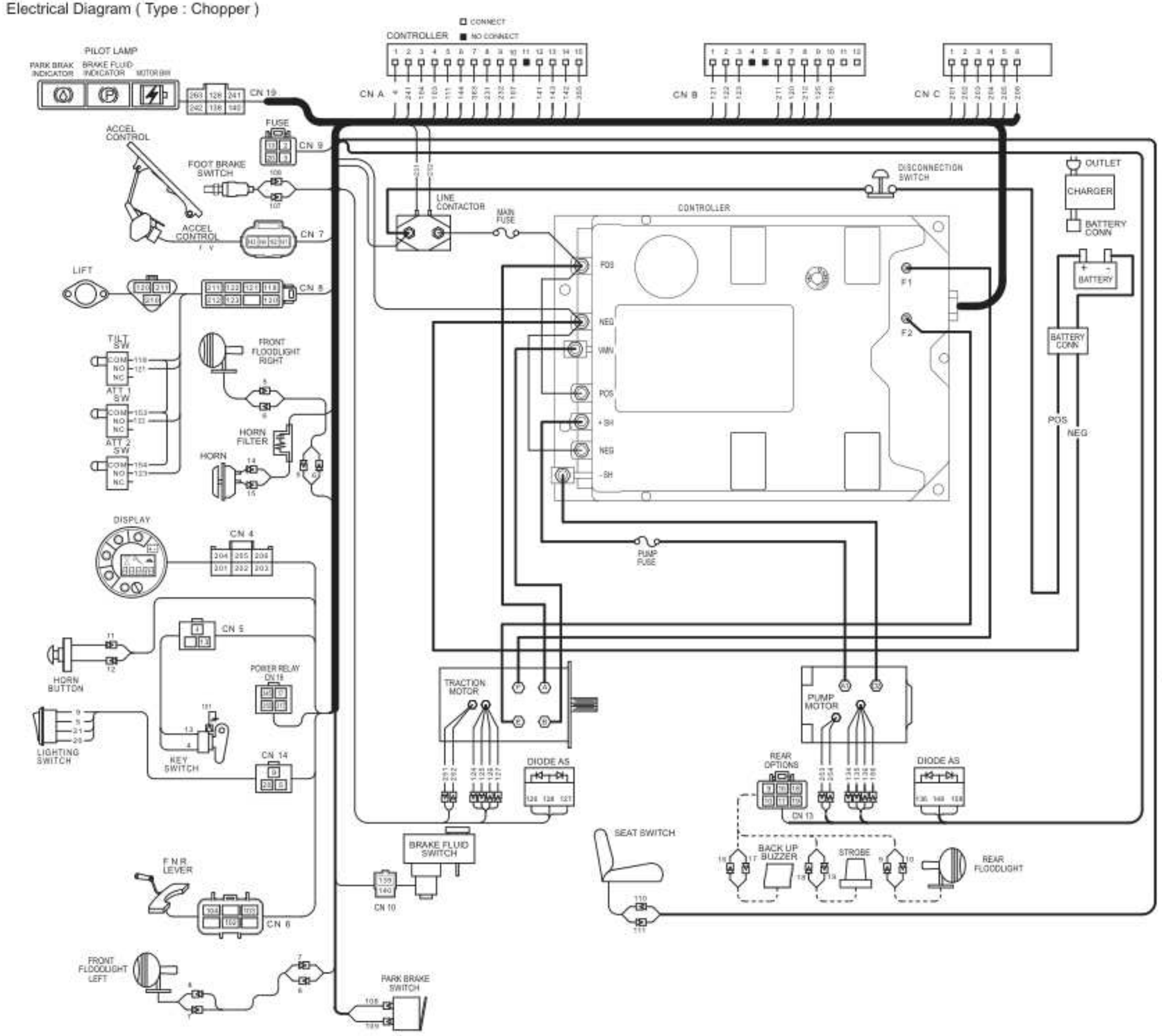


2. Brake Switch Installation

After the adjustment of brake pedal, adjust the brake switch 5 so that it activates when the brake pedal is pressed 6 to 13 mm. Then, tighten the lock nut 6.
The brake switch should turn ON and OFF with link lever movement of 0.7 to 1.3 mm.

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Electrical Diagram (Type : Chopper)



SCHEMATIC & WIRING LEGEND

FORMAL	ABBREVIATION
ACCELERATOR CONTROL	ACCEL CONTROL
ACCELERATOR CONTROL SWITCH	ACCEL CONTROL SW
ATTACH 1 SWITCH	ATT 1 SW
ATTACH 2 SWITCH	ATT 2 SW
BACK UP BUZZER	(-)
BATTERY	(-)
BATTERY CONNECTOR	BATTERY CONN
BRAKE FLUID INDICATOR	(-)
BRAKE FLUID SWITCH	(-)
CHARGER	(-)
CONNECTOR	CN
COMMON	COM
CONNECTION	CONNECT
CONTROLLER	(-)
DIODE ASSY	DIODE AS
DISCONNECTION SWITCH	(-)
DISPLAY	(-)
FORWARD / NEUTRAL / REVERSE LEVER	F N R LEVER
FRONT FLOODLIGHT LEFT	(-)
FRONT FLOODLIGHT RIGHT	(-)
FUSE	(-)
F 1	(-)
F 2	(-)
HORN	(-)
HORN BUTTON	(-)
HORN FILTER	(-)
KEY SWITCH	(-)
LIFT	(-)
LIGHTING SWITCH	(-)
LINE CONTACTOR	(-)
MAIN FUSE	(-)
MOTOR BRUSH WEAR INDICATOR	MOTOR BWI
NORMALLY CLOSE	NC
NEGATIVE	NEG
NO CONNECTION	NO CONNECT
NORMALLY OPEN	NO
OUTLET	(-)
PARK BRAKE SWITCH	(-)
PARK BRAKE INDICATOR	(-)
PILOT LAMP	(-)
POSITIVE	POS
POWER RELAY	(-)
PUMP FUSE	(-)
PUMP MOTOR	(-)
REAR FLOODLIGHT	(-)
REAR OPTIONS	(-)
SEAT SWITCH	(-)
STROBE	(-)
TILT SWITCH	TILT SW
TRACTION MOTOR	(-)
VMN	(-)
+SH	(-)
- SH	(-)

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Diagram No.	User for	Truck Model	Serial Number
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		EP12KRT	ETB10-20001-up
		EP15KRT	ETB10-50001-up

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