CAT® Lift Trucks

Service Manual

Chassis & Mast

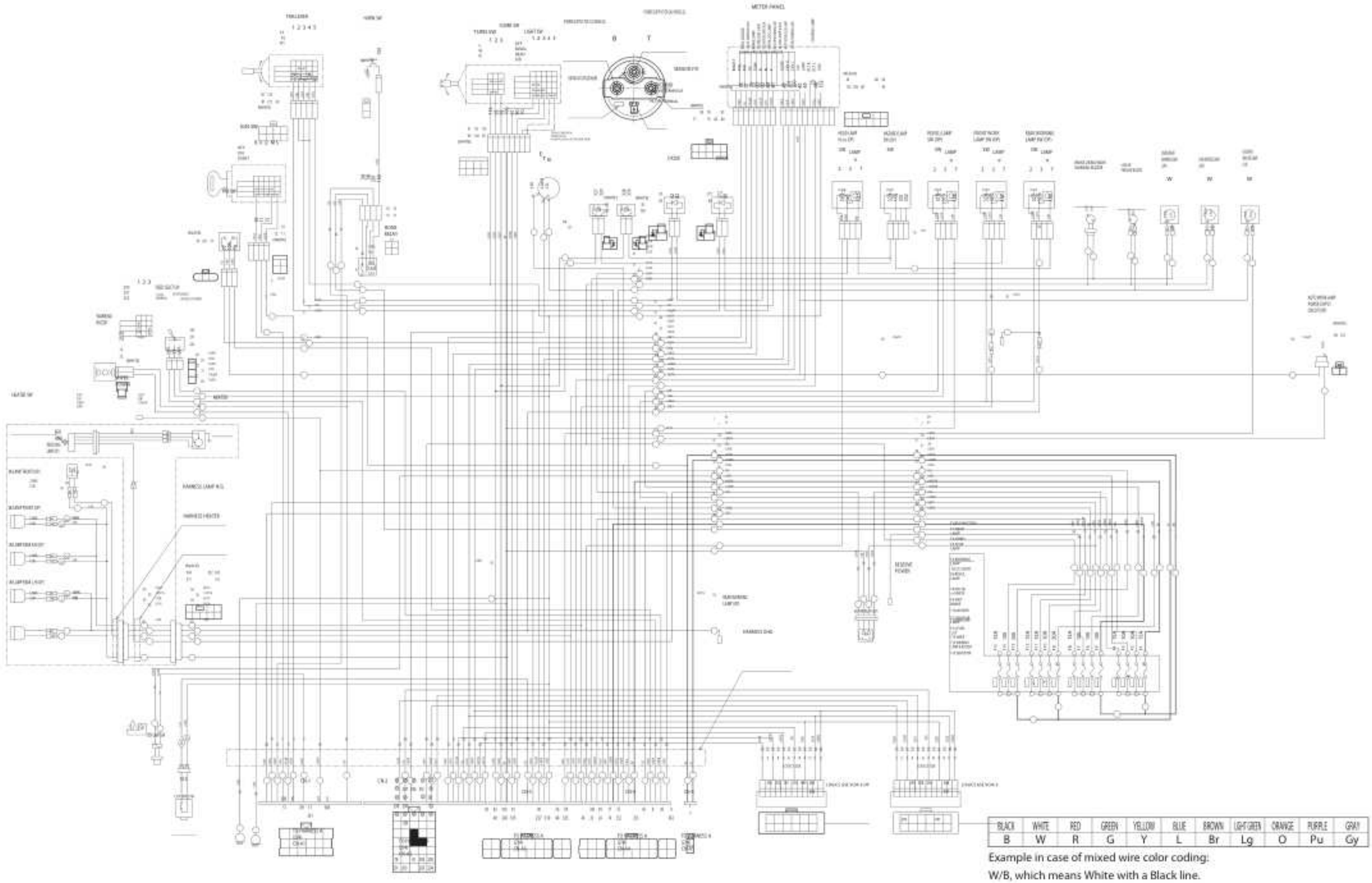
LC/FC

DP100NZ	**T36AE-10011-up**
DP120NZ	**T37AE-10011-up**
DP135NZ	**T38AE-10011-up**
DP150NZ	**T39AE-10011-up**

For use with 6D16-TL Engine
Service Manual.

99799-41000

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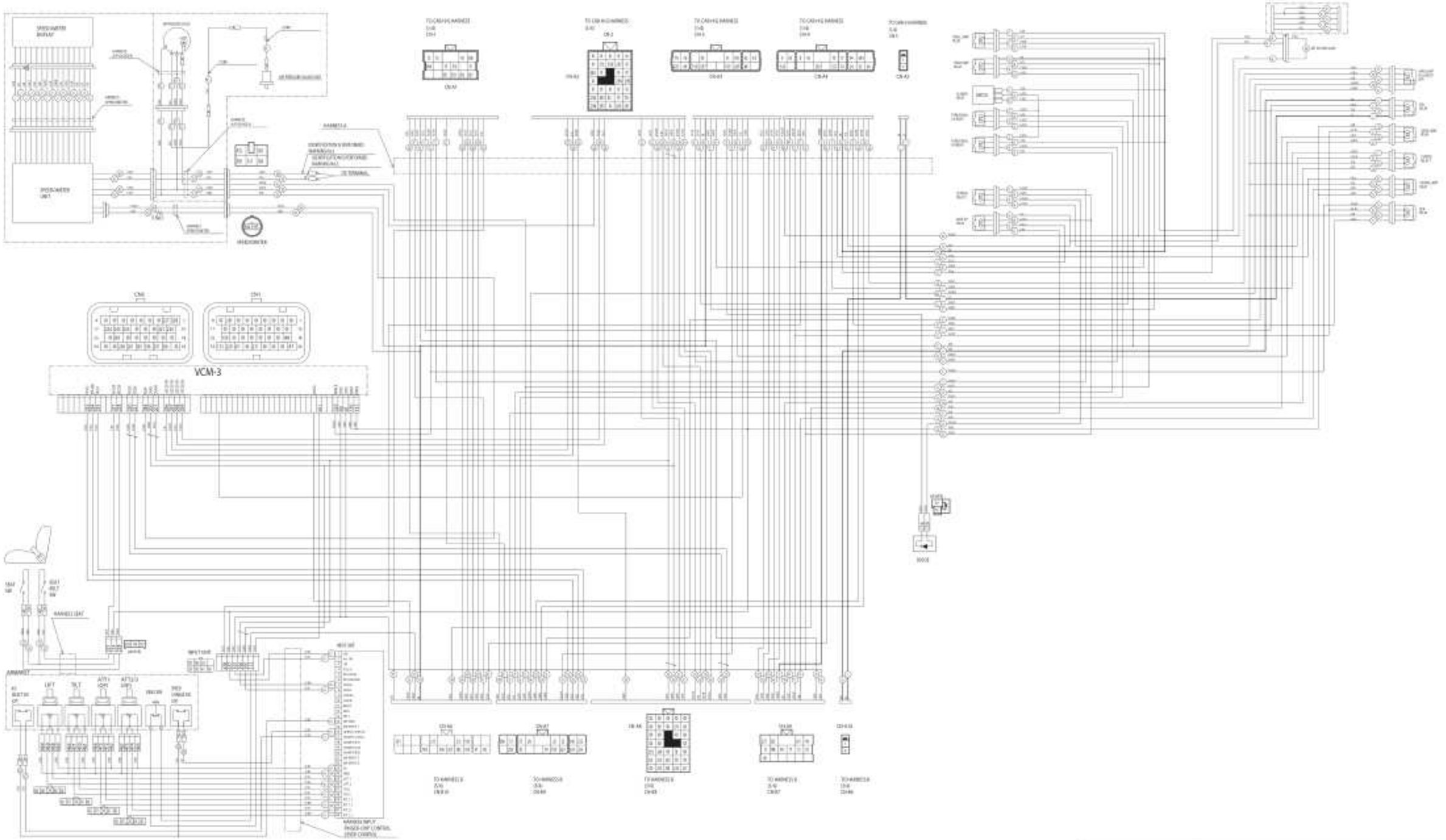
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B	W	R	G	Y	L	Br	Lg	O	Pu	Gy

Example in case of mixed wire color coding:
W/B, which means White with a Black line.

Electrical Wiring Diagram 1/4
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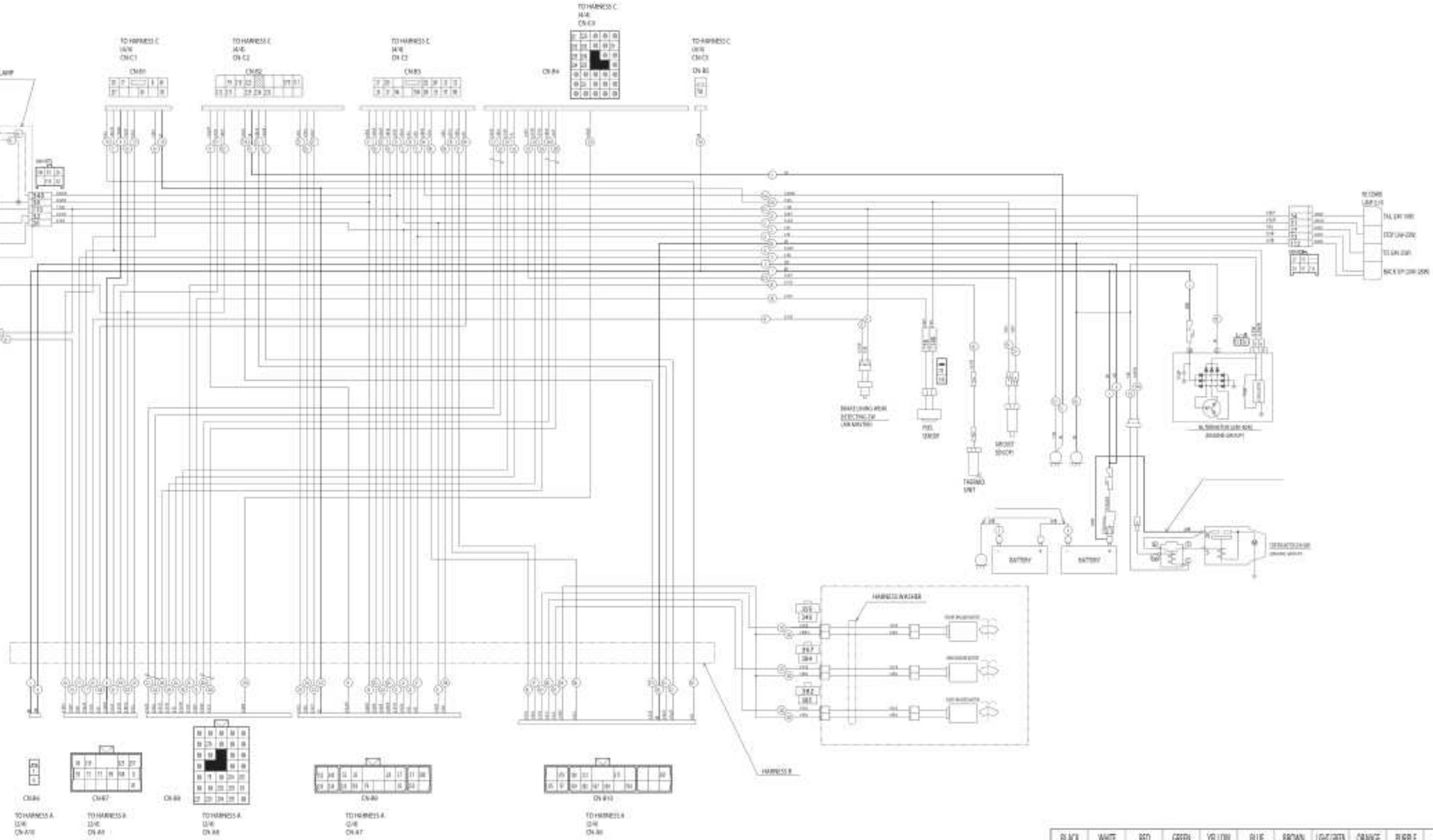
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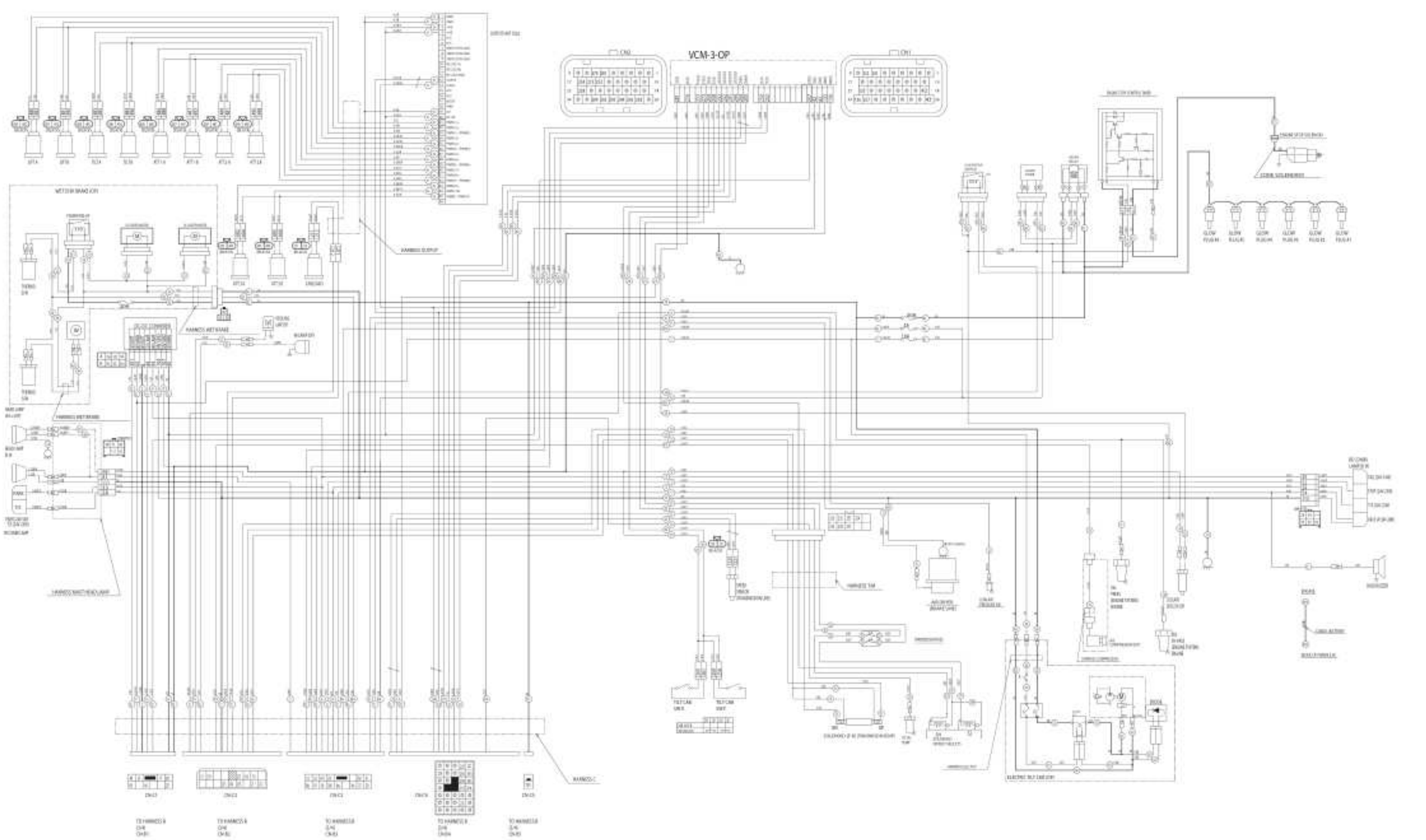
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Electrical Wiring Diagram 3/4
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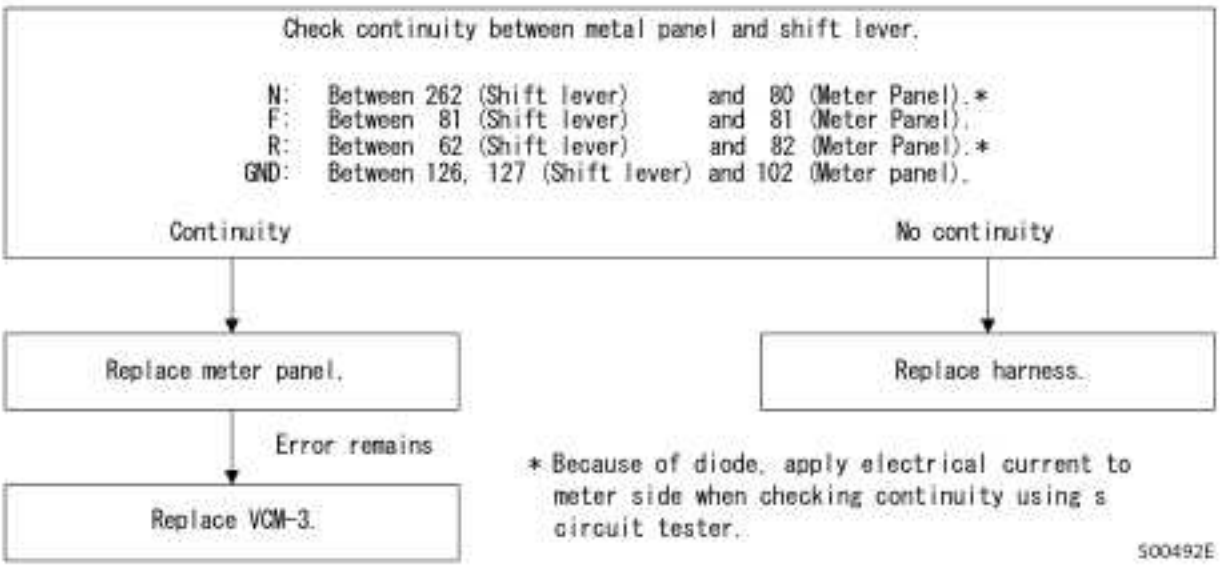
Electrical Wiring Diagram 4/4
Pub. No. 99799-41000

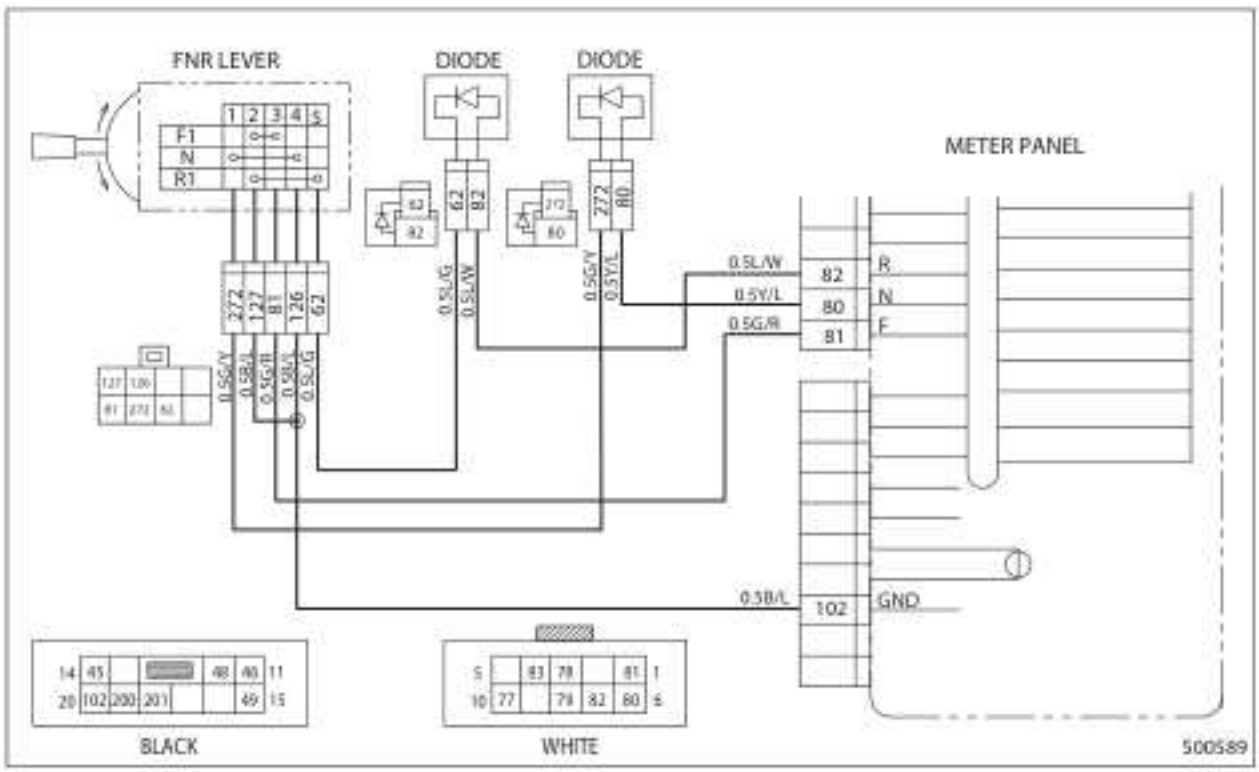
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4.11 Shift Lever Error (F16)

Error code: F16	
Situation	"F16" flickering. Drive operations disabled.
Possible causes	Faulty meter panel, faulty VCM-3, faulty harness
How the error code is triggered.	When F, N and R signals of shift lever are input simultaneously.

Checks





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9. Service Data

Truck model				DP100NZ	DP120NZ	DP135NZ	DP150NZ
Fork and chain	Difference of height at blade tips		Standard value	5 mm (0.20 in.) or less			
	Fork blade thickness		Standard value	72 mm (2.83 in.)	79 mm (3.11 in.)	88 mm (3.46 in.)	
			Service limit value	65 mm (2.56 in.)	71 mm (2.80 in.)	76 mm (2.99 in.)	80 mm (3.15 in.)
	Chain length (mm/20 links)		Standard value	889 mm (35.0 in.)			1016 mm (40.0 in.)
			Service limit value	915 mm (36.02 in.)			1046 mm (41.18 in.)
	Tightening torque of chain anchor bolt nuts		Standard value	393±39.3 N·m (40.07±4.01 kgf·m) [289.86±28.99 lbf·ft]			
Rollers	Main roller outside diameter	S size	Standard value	203 mm (7.99 in.)			
		M size	Standard value	205 mm (8.07 in.)			
		L size	Standard value	207 mm (8.15 in.)			
	Side roller outside diameter		Standard value	58 $^{0}_{-0.1}$ mm (2.28 $^{0}_{-0.004}$ in.)			
Outer mast and inner mast	Smallest inner width of outer mast	1)	Standard value	890 $^{+0.5}_{-1.0}$ mm (35.04 $^{+0.020}_{-0.039}$ in.)			884 $^{+0.5}_{-1.0}$ mm (34.80 $^{+0.020}_{-0.039}$ in.)
		2)	Standard value	890 $^{+1.0}_{-0.5}$ mm (35.04 $^{+0.039}_{-0.020}$ in.)			884 $^{+1.0}_{-0.5}$ mm (34.80 $^{+0.039}_{-0.020}$ in.)
	3) Inner width between outer mast rollers		Standard value	754±0.5 mm (29.68±0.020 in.)			748±0.5 mm (29.45±0.020 in.)
	Smallest inner width of inner mast	4)	Standard value	704 $^{+0.5}_{-1.0}$ mm (27.72 $^{+0.020}_{-0.039}$ in.)			692 $^{+0.5}_{-1.0}$ mm (27.24 $^{+0.020}_{-0.039}$ in.)
		5)	Standard value	704 $^{+1.0}_{-0.5}$ mm (27.72 $^{+0.039}_{-0.020}$ in.)			692 $^{+1.0}_{-0.5}$ mm (27.24 $^{+0.039}_{-0.020}$ in.)
	6) Outer width of inner mast rollers		Standard value	890±0.5 mm (35.04±0.020 in.)			884±0.5 mm (34.80±0.020 in.)
	7)Clearance between main roller and rolling face (whole lifting stroke)		Standard value	0.5 to 2.8 mm (0.020 to 0.110 in.)			
	8)Clearance between side roller and rolling face (at the maximum height)		Standard value	0.5 to 1.5 mm (0.020 to 0.060 in.)			
	9) Clearance between mast strap and sliding face		Standard value	0.5 to 1.5 mm (0.020 to 0.060 in.)			

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