SEN06523-06

Shop Manual

MOTOR GRADER

GD655-6
GD675-6

SERIAL NUMBERS GD655-60001 and up
GD675-60001

KOMATSU®

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Unit: ℓ

Places to supply oil, coolant, etc.	Specified capacity	Refill capacity
Blade rotation gear case	7	7
Cooling system	32	30
Fuel tank	390	-
AdBlue/DEF tank	36	-

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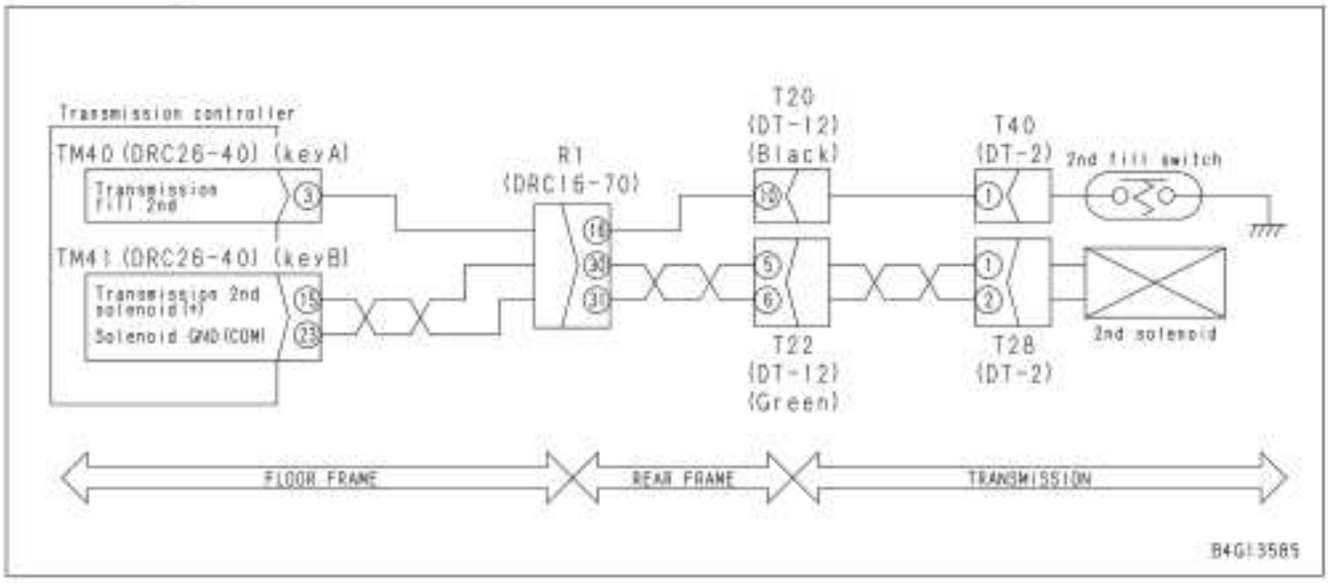
FAILURE CODE [CA3558]

Action level	Failure code	Failure	AdBlue/DEF Pump Voltage High Error (Engine controller system)
L01	CA3558		
Detail of failure	High voltage error occurs in the AdBlue/DEF pump drive circuit.		
Action of controller	• AdBlue/DEF pump stops. • AdBlue/DEF purging stops. • Advances to Inducement strategy.		
Phenomenon on machine	• NOx emission increases because AdBlue/DEF injection is disabled. • Engine output is reduced based on inducement strategy.		
Related information	• If the starting switch is turned ON while the AdBlue/DEF pump connector is removed, this failure code is displayed. • The AdBlue/DEF pump operates120 seconds after starting the engine, or it operates, after starting the engine, if not in AdBlue/DEF thawing process, when the KDPF outlet temperature becomes over 150 °C, or when AdBlue/DEF pump pressure raising test is implemented. • After repairing, check if the failure code is cleared by the following procedure. Procedure: Turn starting switch to ON position or operate the AdBlue/DEF pump.		

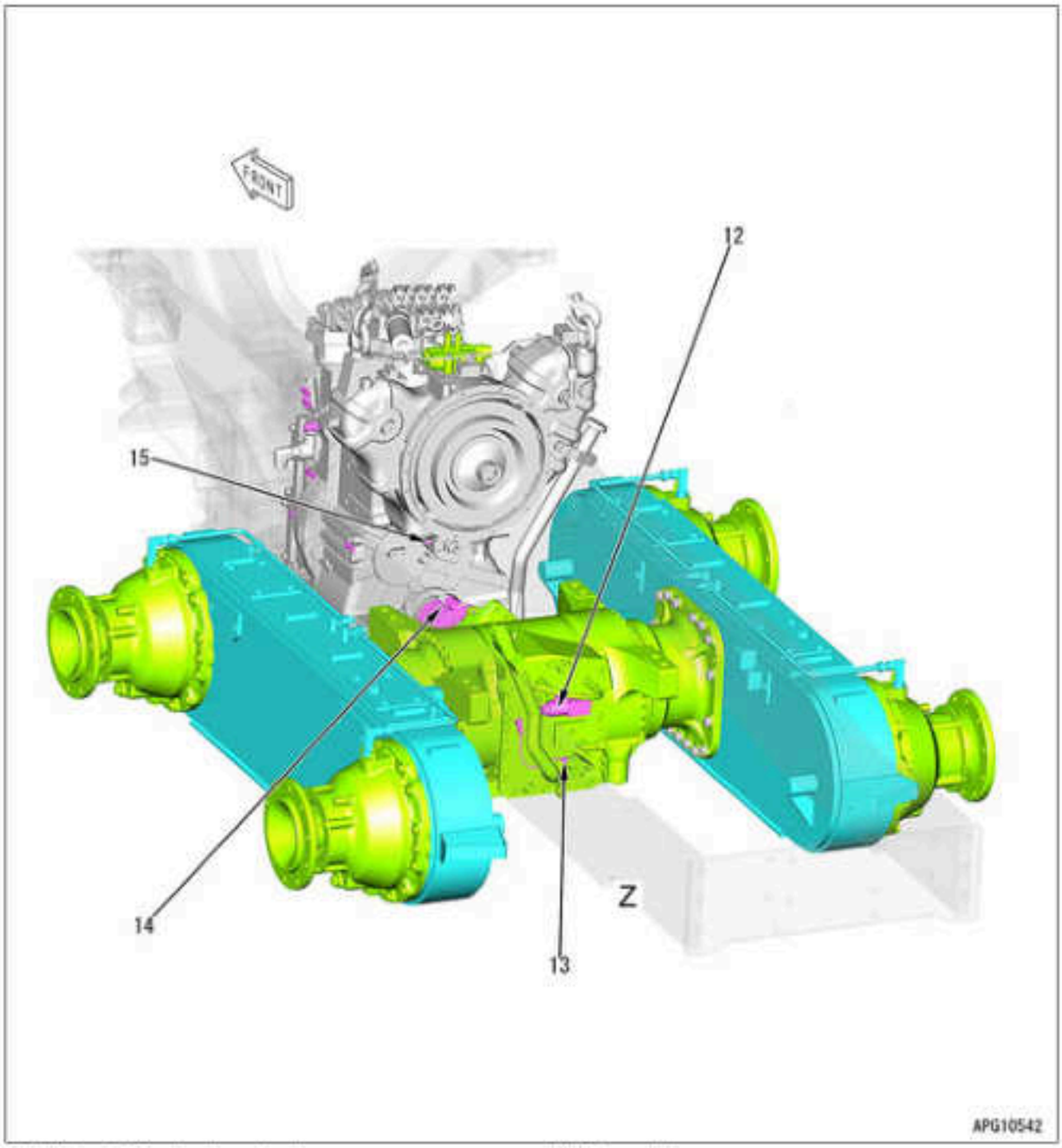
No.	Cause	Procedure, measuring location, criteria and remarks		
1	Defective wiring harness connector	1. See descriptions of wiring harness and connectors in "Electrical equipment" in "CHECKS BEFORE TROUBLESHOOTING" of the failure code "RELATED INFORMATION ON TROUBLESHOOTING", and check it. 2. Turn starting switch to ON position. 3. See "SERVICE MODE" and "METHOD FOR SETTING WITH TESTING MENU (SCR SERVICE TEST)" of SETTING AND OPERATION OF MACHINE MONITOR, and perform an AdBlue/DEF Pump Pressure Up Test.		
		If this failure code is cleared, wiring harness connector is defective.		
2	Open circuit in wiring harness (wire breakage or defective contact of connector)	1. Turn starting switch to OFF position. 2. Disconnect connectors ECM J2 and DSM, and connect T-adapter to either female side.		
		Resistance	Between ECM J2 (female) (54) and DSM (female) (8)	Max. 10 Ω
			Between ECM J2 (female) (79) and DSM (female) (9)	Max. 10 Ω
3	Short circuit in wiring harness	1. Turn starting switch to OFF position. 2. Disconnect connectors ECM J2 and DSM, and connect T-adapter to female side of ECM J2.		
		Continuity	Between ECM J2 (female) (6) and each pin other than (6)	No continuity
			Between ECM J2 (female) (79) and each pin other than (79)	No continuity
4	Defective AdBlue/DEF pump	If failure code is still displayed after above checks, AdBlue/DEF pump may be defective. (In case of an internal defect, troubleshooting is impossible as an assembly. Replace whole assembly.)		
5	Defective engine controller	If no failure is found by above checks, engine controller is defective. (Since this is an internal defect, troubleshooting cannot be performed.)		

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Circuit diagram related to 2nd clutch



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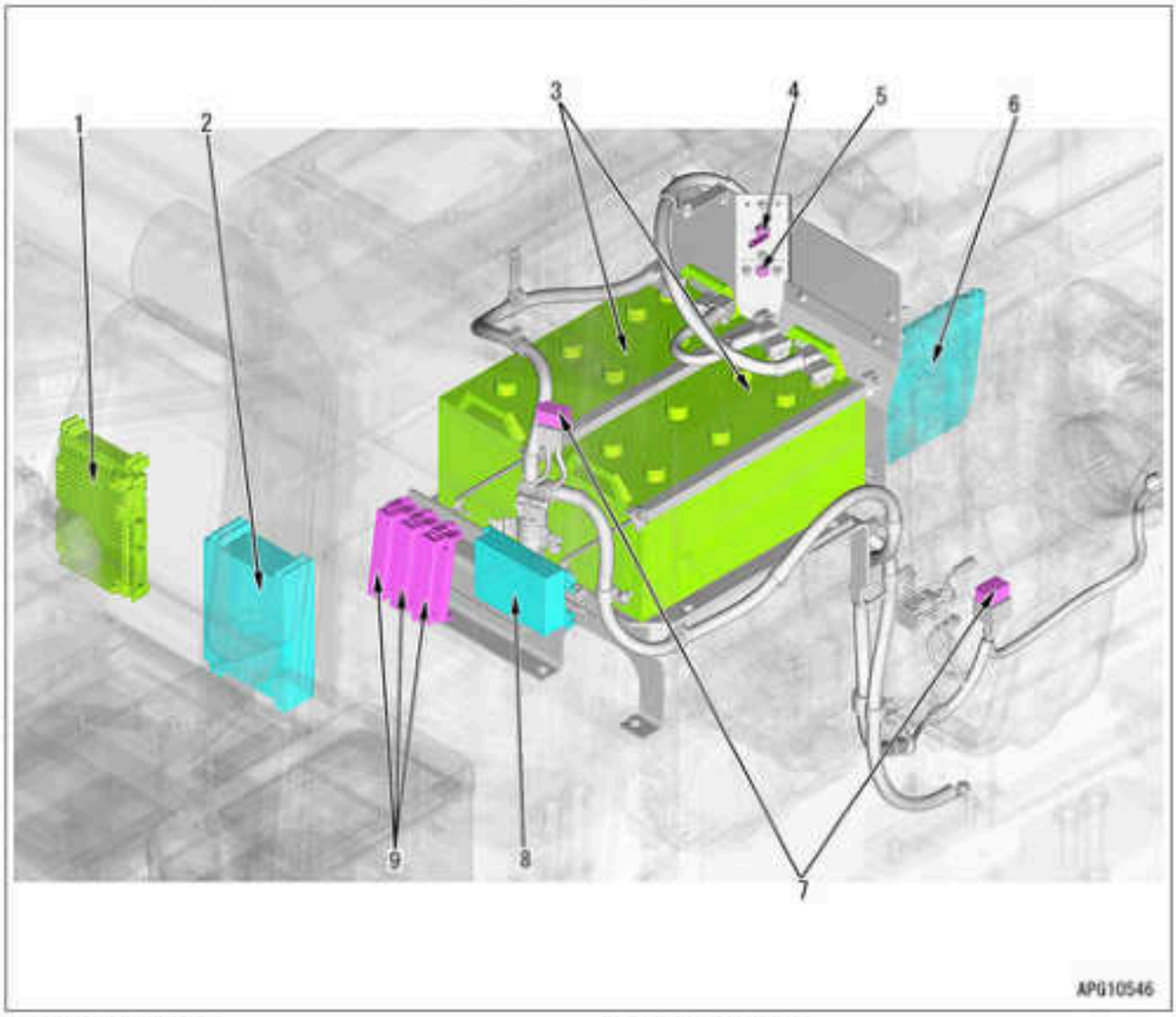


12: Differential lock solenoid valve
13: Differential oil temperature sensor
14: Drive shaft
15: Torque converter oil temperature sensor

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BOOT-UP SYSTEM

LAYOUT DRAWING OF BOOT-UP SYSTEM



1: Monitor controller
2: Transmission controller
3: Battery
4: Battery disconnect switch
5: System operating lamp
6: Engine controller
7: Fusible link
8: KOMTRAX terminal
9: Fuse box

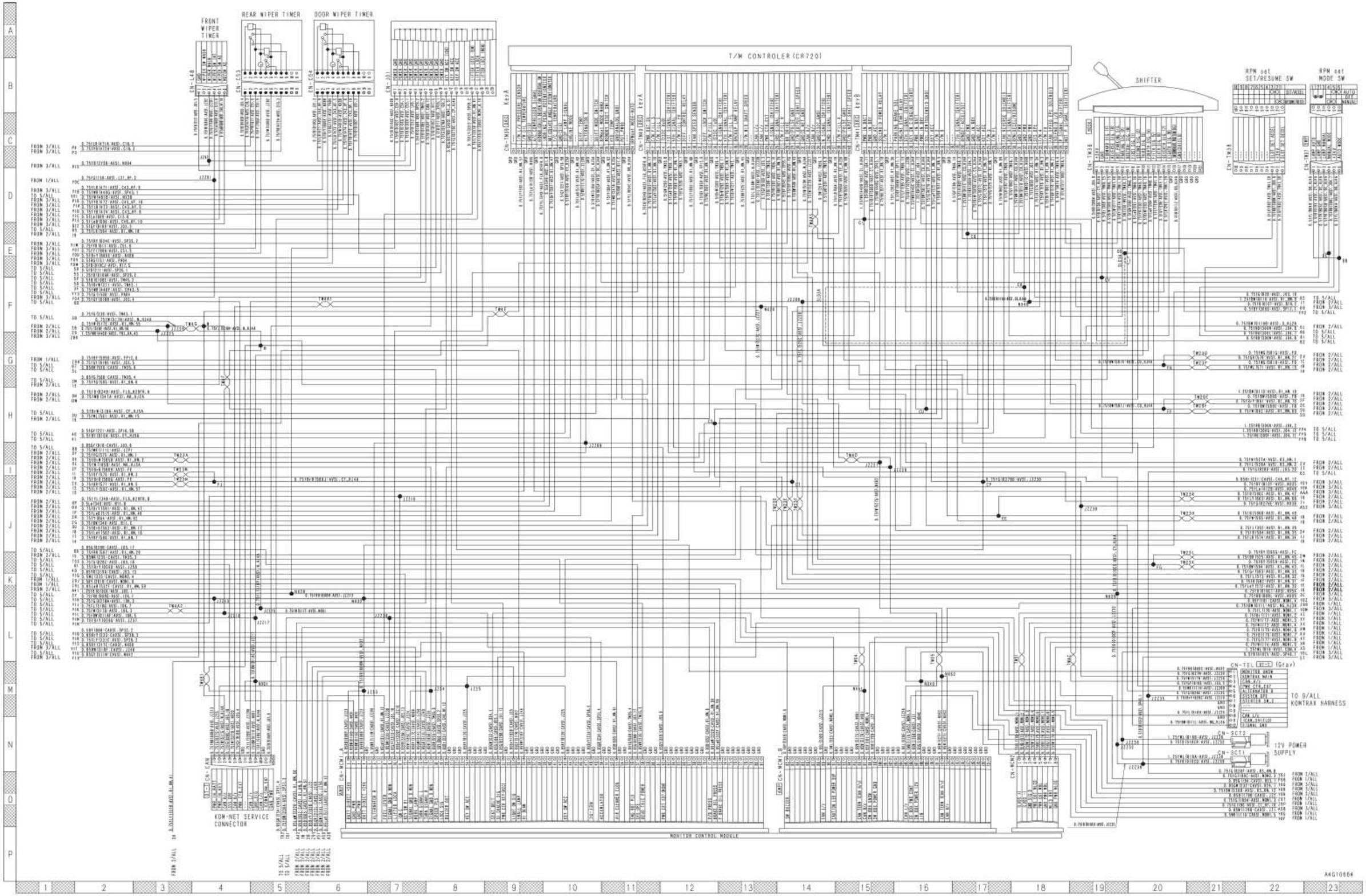
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ELECTRICAL CIRCUIT DIAGRAM (4/12)

GD655–6, GD675–6

REMARK

This figure includes the equipment and devices that are unavailable as optional items in some areas.



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