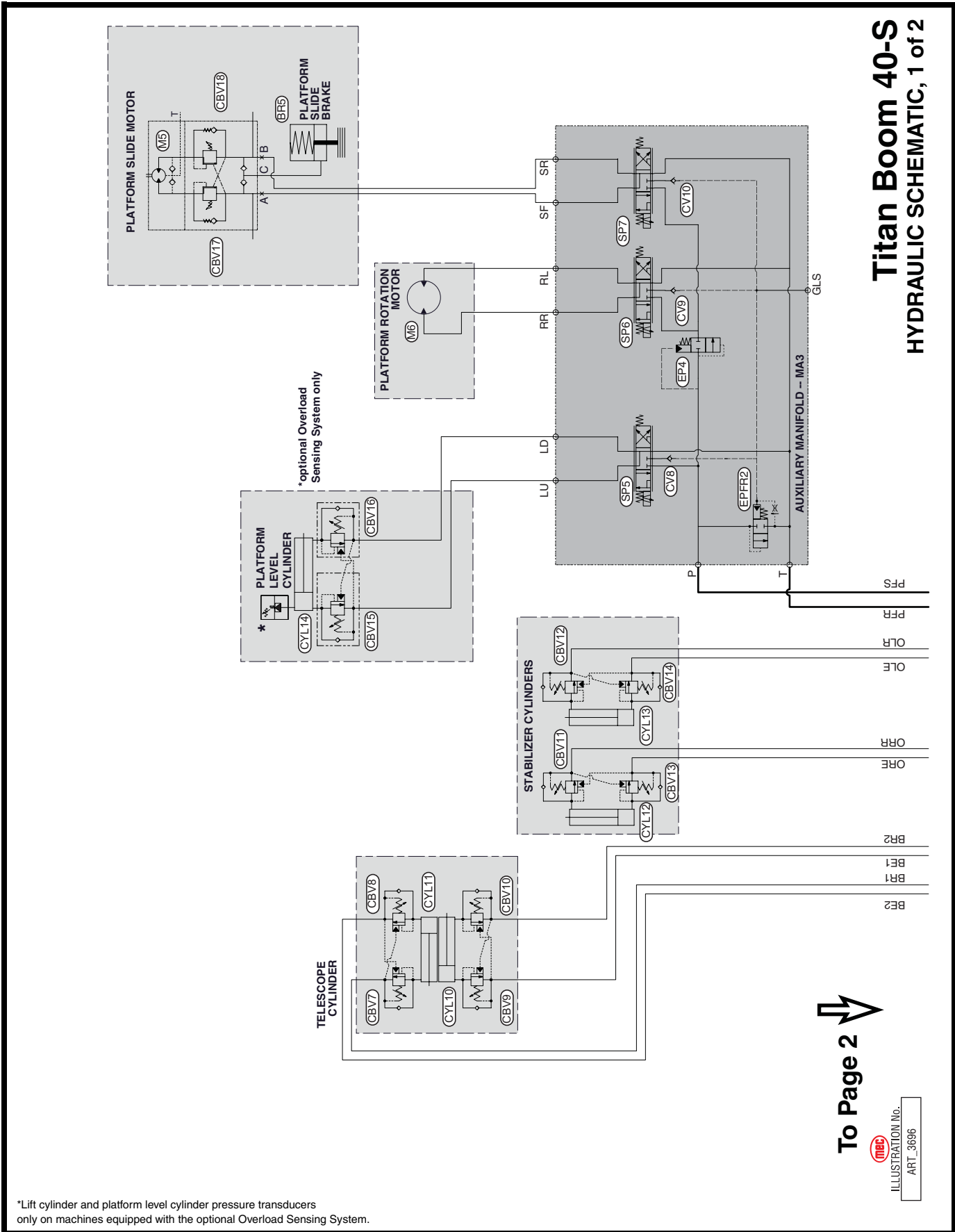


HYDRAULIC SCHEMATICS

The following table applies to Figure 5-1 through Figure 5-5.

Callout	Description	Callout	Description
BR1-BR4	Wheel Brakes (located in gear hubs)	ORF1	Orifice -- Brake Apply .040
BR5	Platform Slide Brake	ORF2	Orifice -- Traction Manifold .052
CBV1-CBV18	Counterbalance Valves	ORF3	Orifice -- Traction Manifold .052
CR1-CR2	Cross-Port Relief Valve	ORF4	Orifice -- Traction Manifold .040
CV1	Check Valve, P1	ORF5	Orifice -- Traction Manifold .090
CV2	Check Valve -- Load Sense	ORF6	Orifice -- Generator Option .030
CV3	Check Valve -- Load Sense	PD1	Pilot-Operated Valve
CV4	Check Valve -- Load Sense	PD2	Pilot-Operated Valve
CV5	Check Valve -- Load Sense	PFC1	Priority Flow Control--5 gpm
CV6	Check Valve -- Low to High Flow	PR1	Pressure Reducing Valve
CV7	Check Valve -- Auxiliary Manifold Supply	RV1	Relief Valve -- High Flow
CV8	Check Valve -- Platform Level	RV2	Relief Valve -- Telescope
CV9	Check Valve -- Platform Rotate	RV3	Relief Valve -- Low Flow
CV10	Check Valve -- Platform Slide	RV4	Relief Valve -- Traction Manifold 300 psi
CYL1	Boom Lift Cylinder	SP1	Proportional Valve -- Boom
CYL2-CYL5	Steer Cylinders	SP2	Proportional Valve -- Telescope
CYL6-CYL9	Axle Cylinders	SP3	Proportional Valve -- Stabilizer
CYL10-CYL11	Boom Extend Cylinders	SP4	Proportional Valve -- Stabilizer
CYL12-CYL13	Stabilizer Cylinders	SP5	Proportional Valve -- Platform Level
CYL 14	Platform Level Cylinder	SP6	Proportional Valve -- Platform Rotate
EP1	Flow Compensator -- Boom	SP7	Proportional Valve -- Platform Slide
EP2	Flow Compensator -- Telescope	SVD1	Directional Valve -- Boom
EP3	Flow Control -- Auxiliary Pump	SVD2	Directional Valve -- Steer Select
EP4	Flow Control -- Auxiliary Manifold	SV1	Solenoid Valve -- L/S Dump Hi-Flow
EPFR1	Flow Regulator	SV2	Solenoid Valve -- Re-Gen, Tele Extend
EPFR2	Flow Regulator	SV3	Solenoid Valve -- Re-Gen, Tele Retract
F1	Return Filter	SV4	Solenoid Valve -- Axle Float
F2, F3	Pressure Filter (OPTION)	SV5	Solenoid Valve -- Steer Direction
FD1	Flow Divider -- Telescope	SV6	Solenoid Valve -- Frame Level
FD2	Flow Divider -- Traction Manifold	SV7	Solenoid Valve -- Low Flow Dump
FD3	Flow Divider -- Traction Manifold	SV8	Solenoid Valve -- Brake
FD4	Flow Divider -- Traction Manifold	SV9	Solenoid Valve -- 2-Speed Drive
FR1	Flow Regulator -- Steer		
FR2	Flow Regulator -- Auxiliary Manifold		
HS1	Oil Shuttle Valve		
LS2	Load Sense Shuttle		
LS3	Load Sense Shuttle		
M1-M4	Motor -- Wheels	Gauge Ports	
M5	Motor -- Platform Slide	GP1	Gauge Port -- High Flow
M6	Motor -- Platform Rotate	GP2	Gauge Port -- Low Flow
MA1	Functions Manifold	GCP	Gauge Port -- Charge Pressure
MA2	Traction Manifold	GD	Gauge Port -- Drive Pressure
MA3	Auxiliary Manifold		

Figure 5-1: Hydraulic Schematic, 1 of 2



Titan Boom 40-S
HYDRAULIC SCHEMATIC, 1 of 2

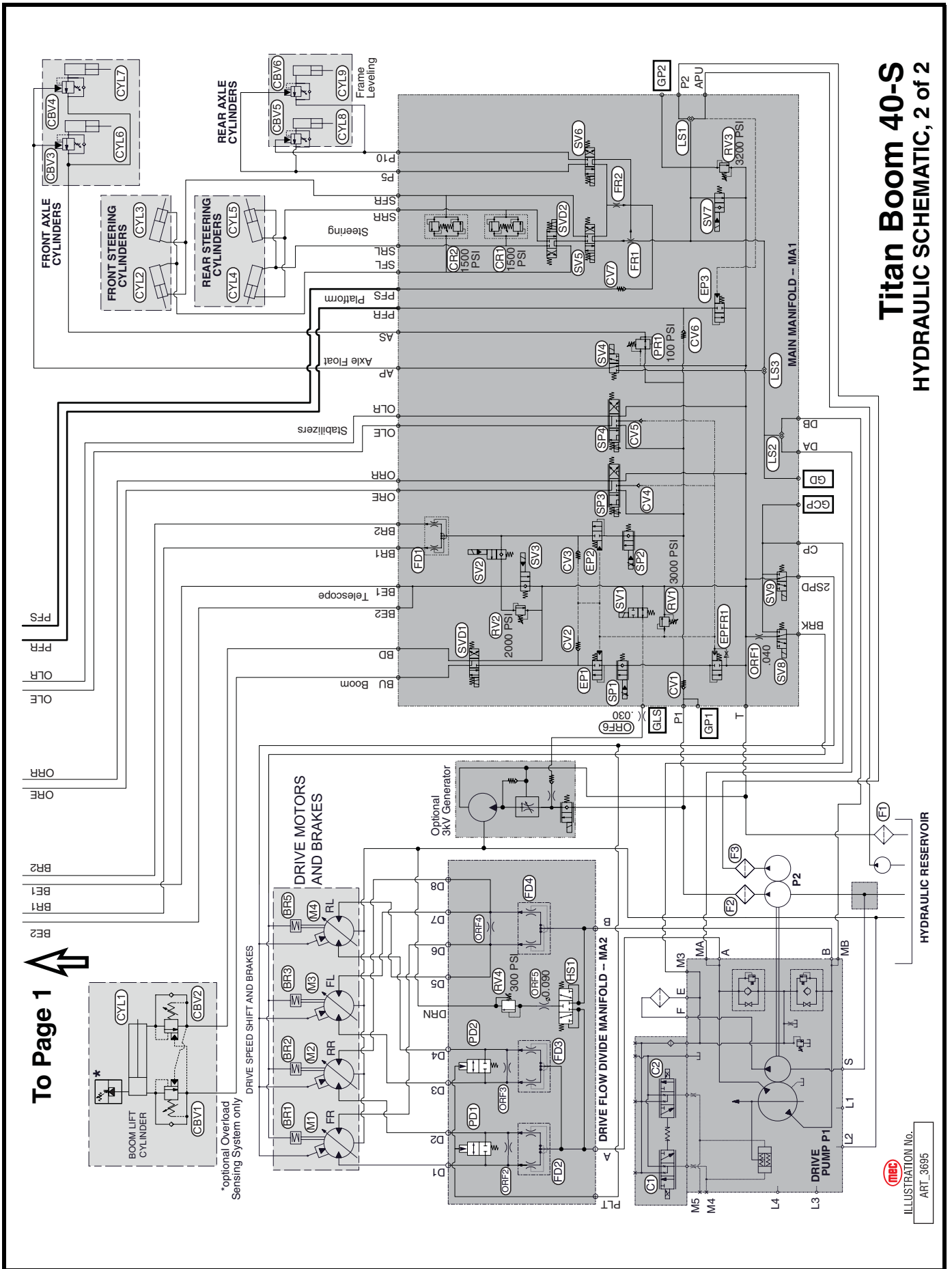
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*Lift cylinder and platform level cylinder pressure transducers only on machines equipped with the optional Overload Sensing System.



Figure 5-2: Hydraulic Schematic, 2 of 2



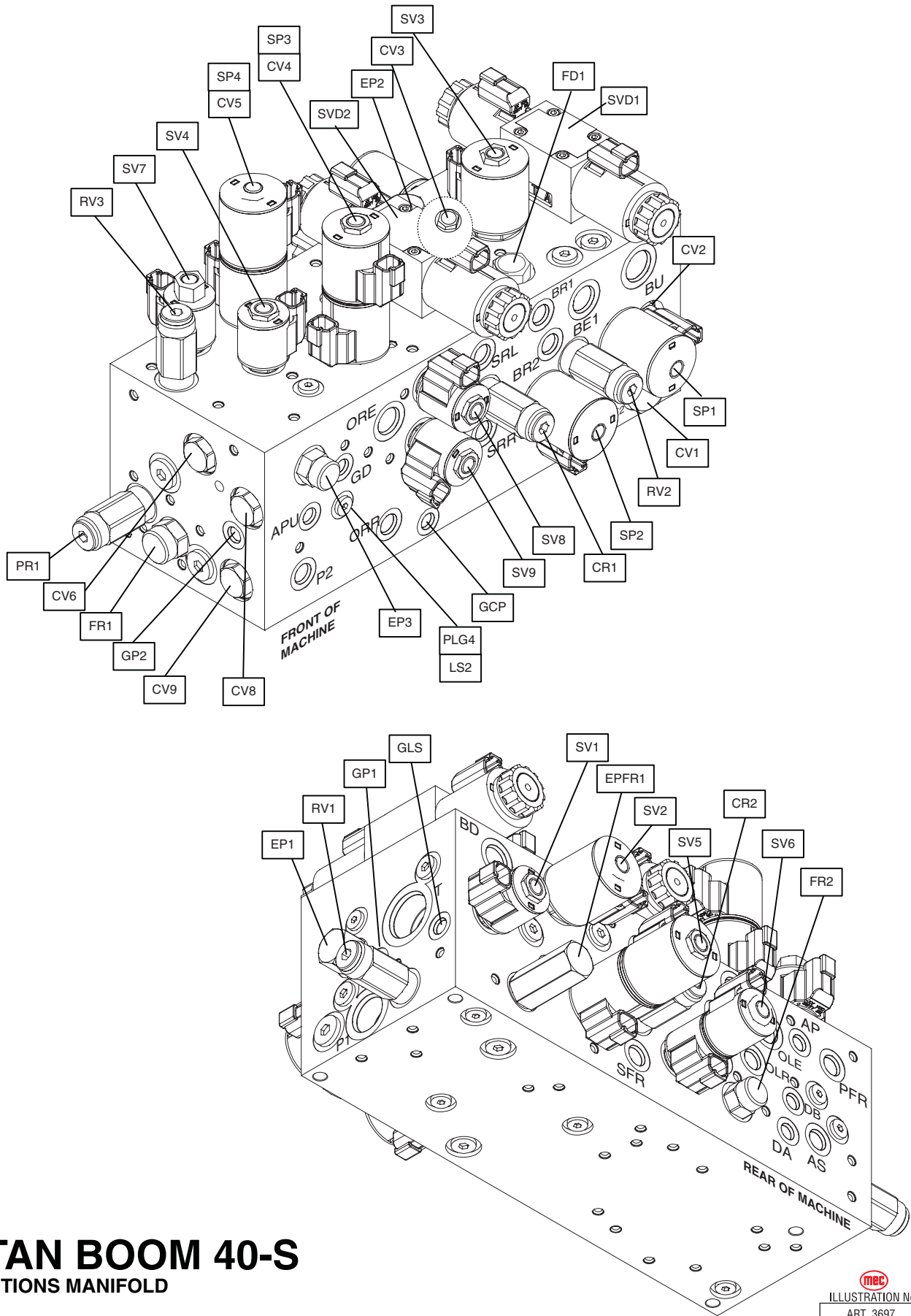
Titan Boom 40-S
HYDRAULIC SCHEMATIC, 2 of 2

To Page 1

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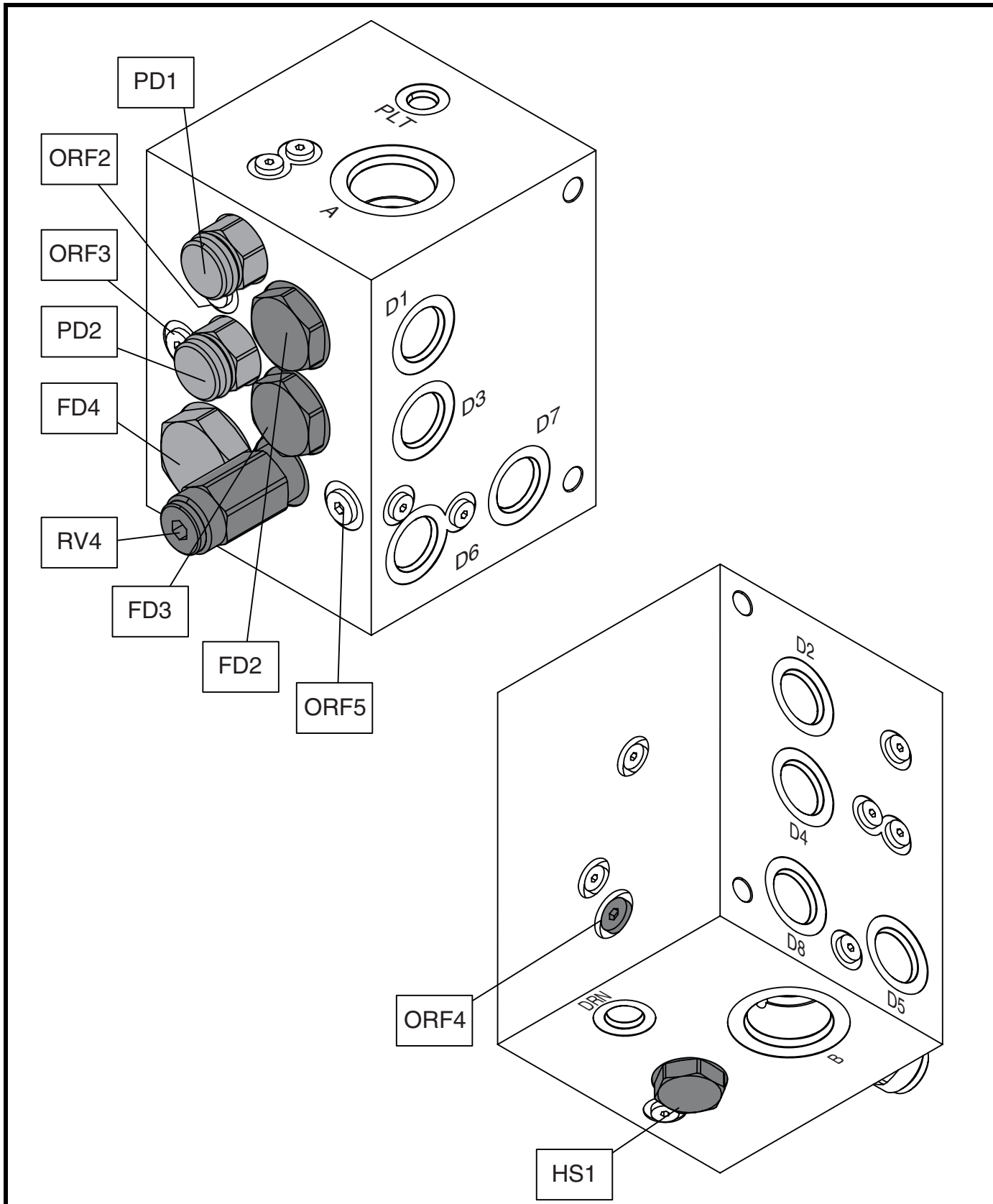
Figure 5-3: Function Manifold, MA1



TITAN BOOM 40-S
 FUNCTIONS MANIFOLD
 MA1

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 ILLUSTRATION No.
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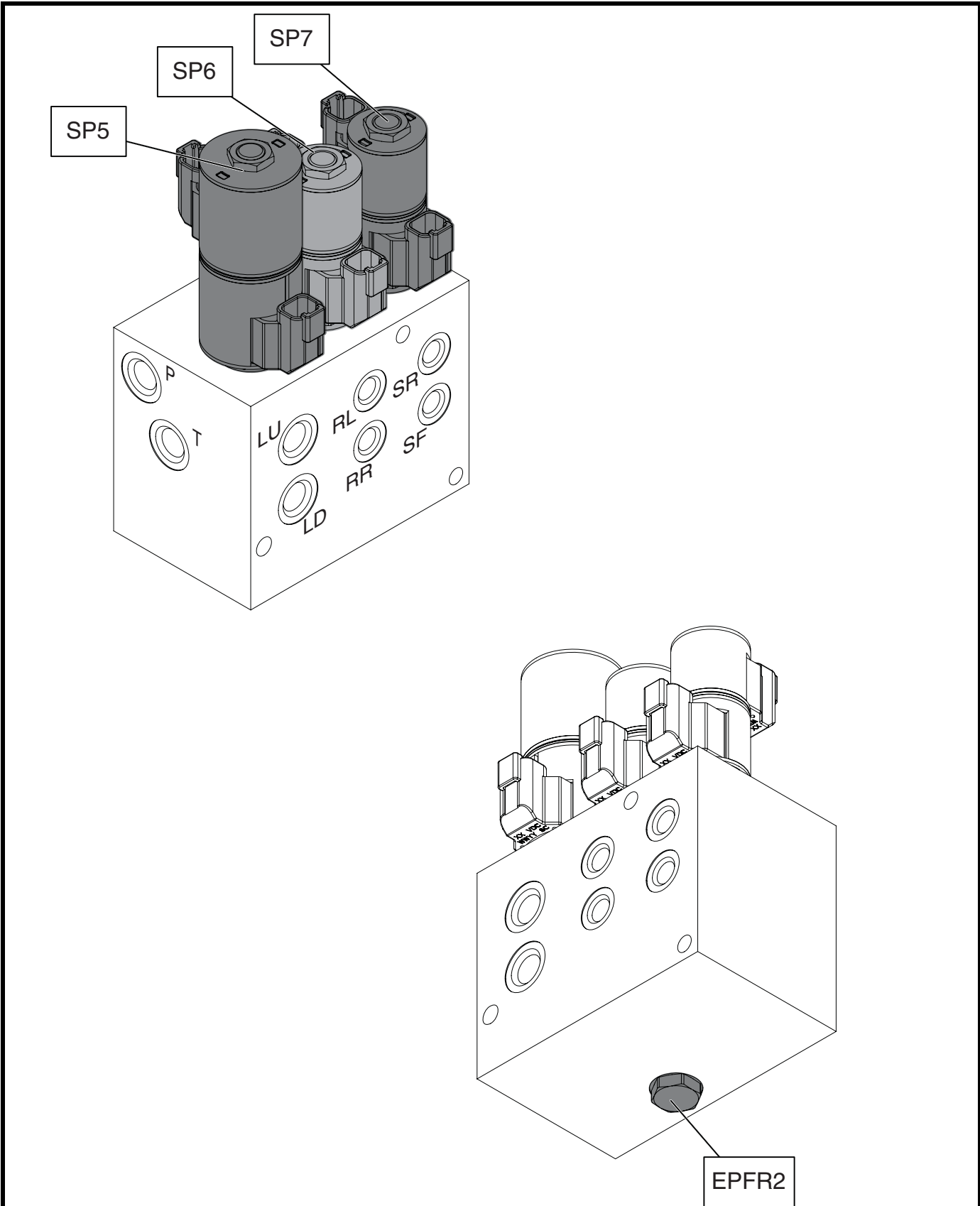


Titan Bom 40-S
DRIVE MANIFOLD
MA2


ILLUSTRATION No.
ART_3698



Figure 5-5: Auxiliary Manifold, MA3



Titan Boom 40-S
AUXILLARY MANIFOLD
MA3


ILLUSTRATION No.
ART_3699

ELECTRICAL SCHEMATICS - STANDARD MACHINE

Figure 5-6: Electric Schematic, Lower Control Box, Standard Machines

SCHEMATIC -- Lower Controls Publication Art #: ART_3700
 Reference Art #: 22551
 Titan Boom 40-S | Serial #12400001 - UP

STANDARD MACHINES

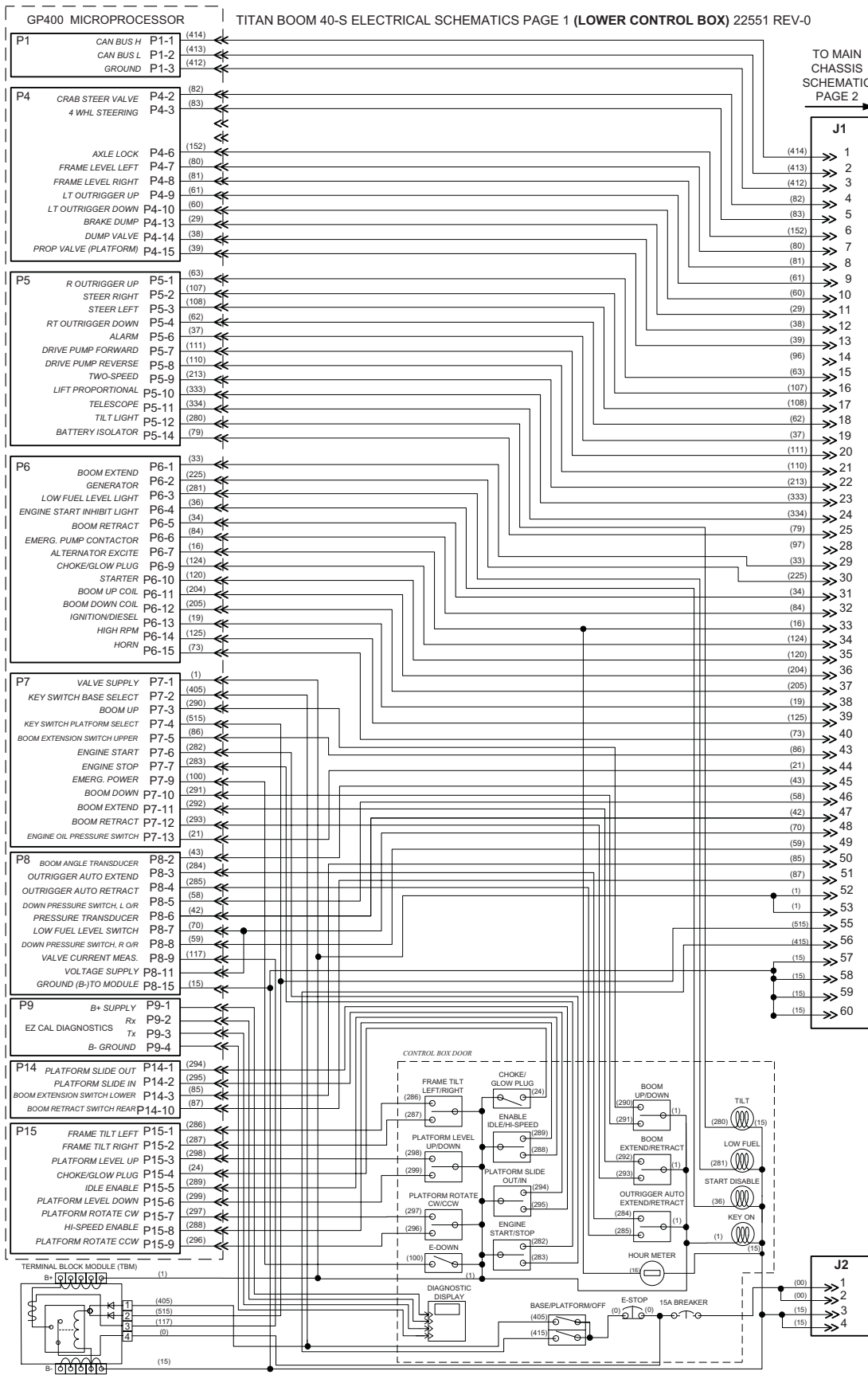


Figure 5-7: Electric Schematic, Chassis, Standard Machines

MEC SCHEMATIC -- Chassis Publication Art #: ART_3701
 Titan Boom 40-S | Serial #12400001- UP Reference Art #: 22550

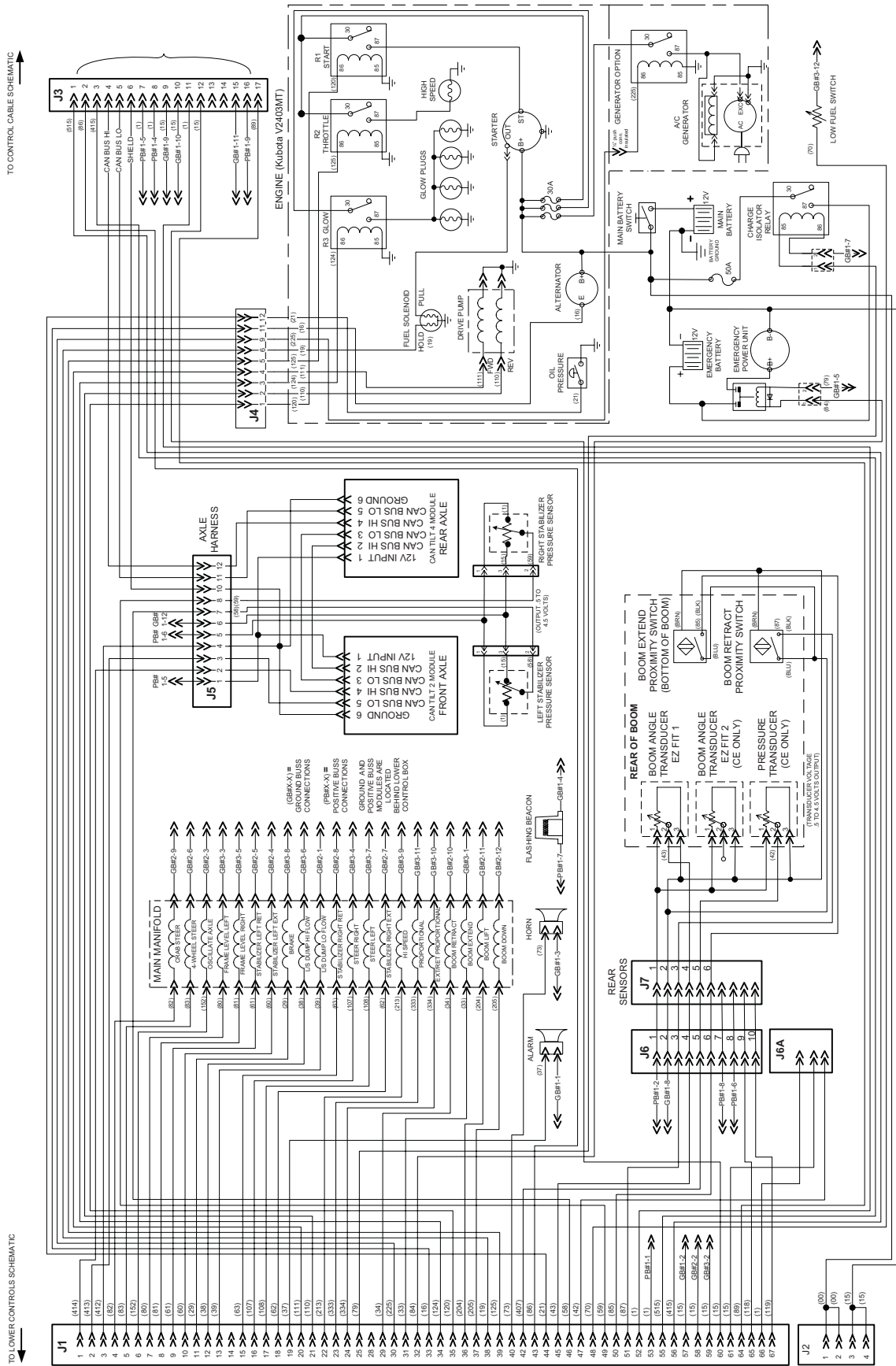


Figure 5-8: Electric Schematic, Control Cable, Standard Machines

MEC SCHEMATIC -- Control Cable Publication Art #: ART_3702
Titan Boom 40-S | Serial #12400001-UP Reference Art #: 22555

STANDARD MACHINES

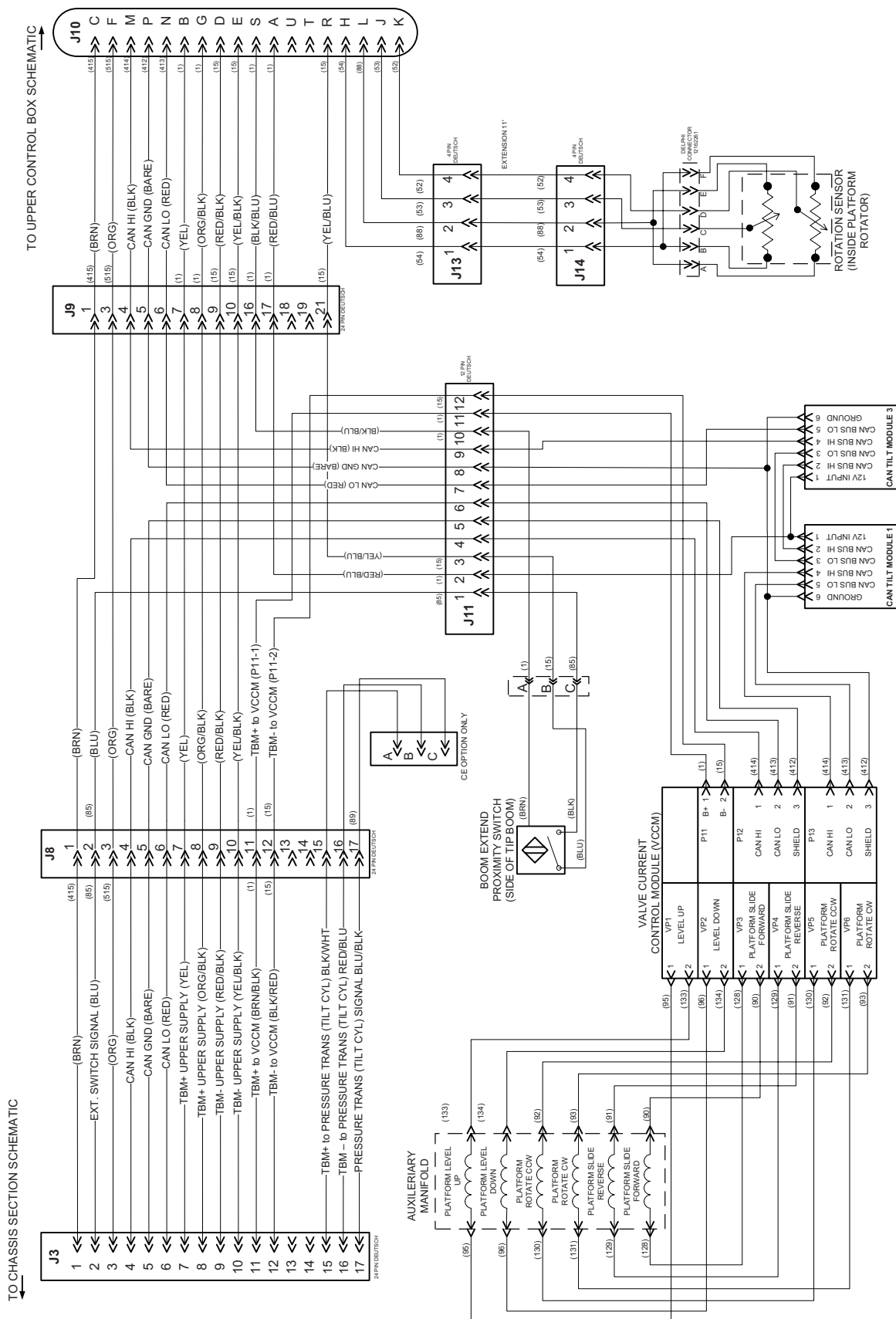
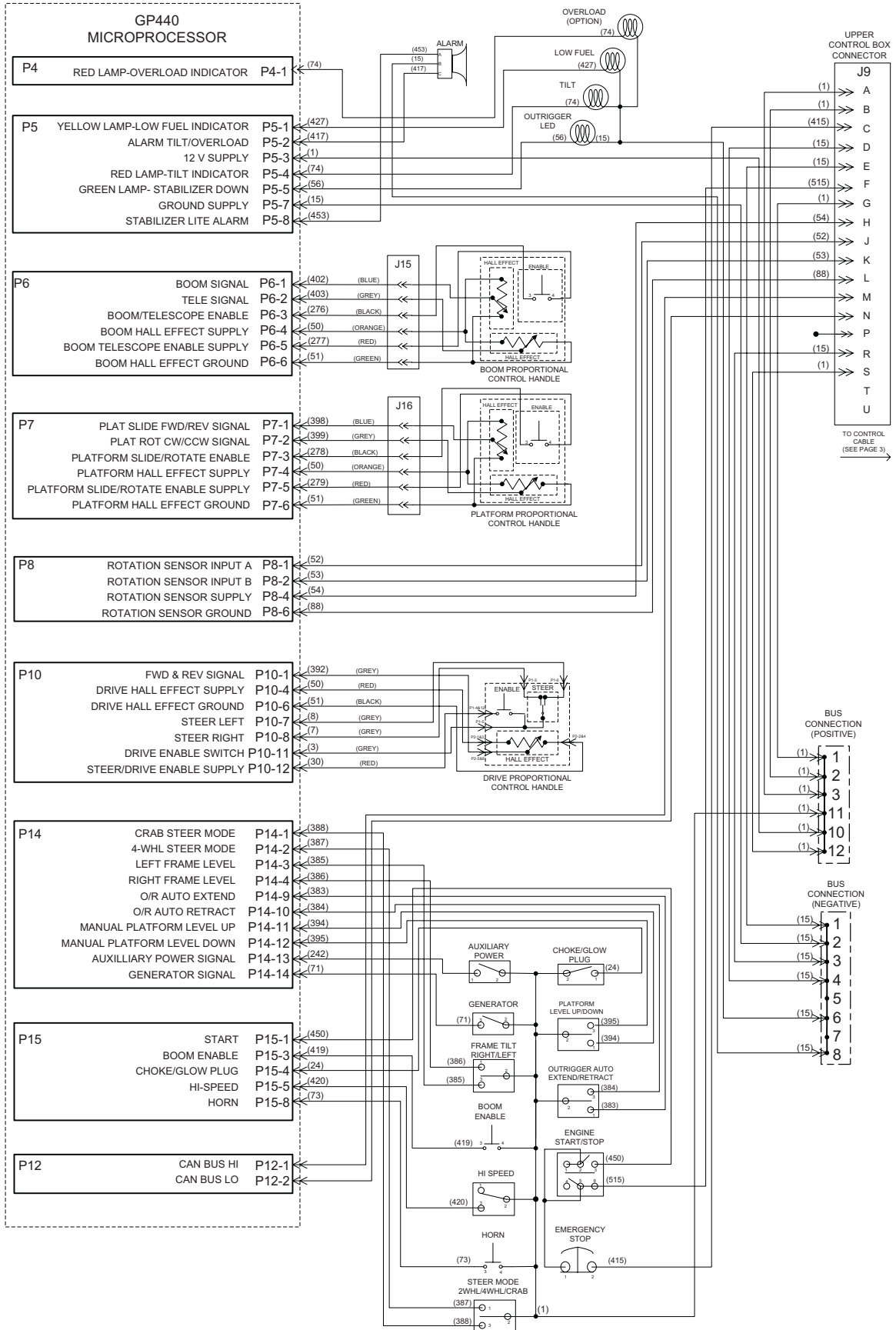


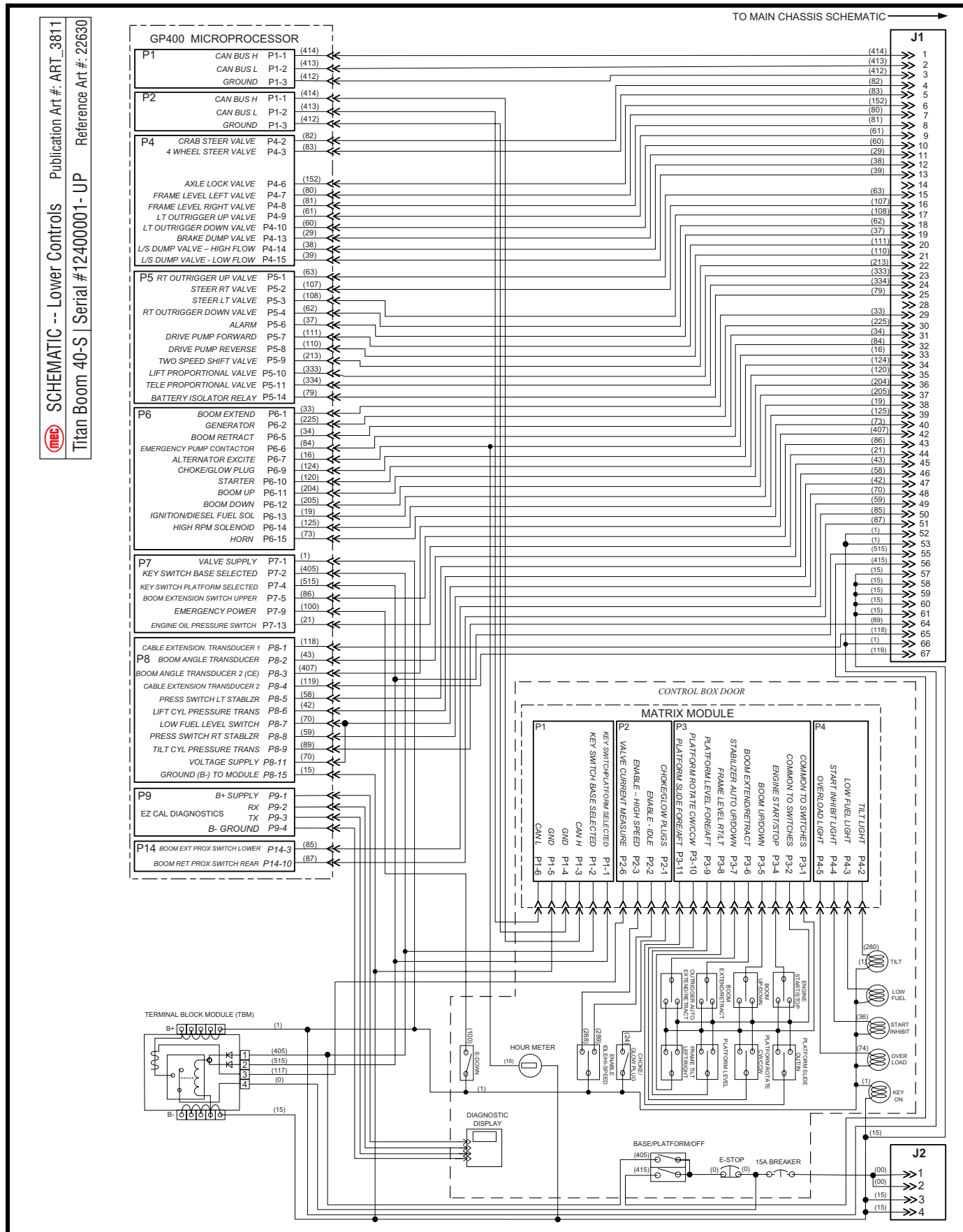
Figure 5-9: Electric Schematic, Upper Control Box, All Machines

MEC SCHEMATIC -- Upper Controls Publication Art #. ART_3703
 Titan Boom 40-S | Serial #12400001 - UP Reference Art #. 22552



ELECTRICAL SCHEMATICS - OPTIONAL OVERLOAD SENSING SYSTEM

Figure 5-10: Electric Schematic, Lower Control Box, Optional Overload Sensing System



MEC SCHEMATIC -- Lower Controls Publication Art #: ART_3811
 Titan Boom 40-S | Serial #1240001 - UP Reference Art #: 22630



Figure 5-11: Electric Schematic, Chassis, Optional Overload Sensing System

OPTIONAL OVERLOAD SENSING SYSTEM

MEC SCHEMATIC --- Chassis

Publication Art # ART_3840

Titan Boom 40-S | Serial #12400001 - UP | Reference Art #: 22631

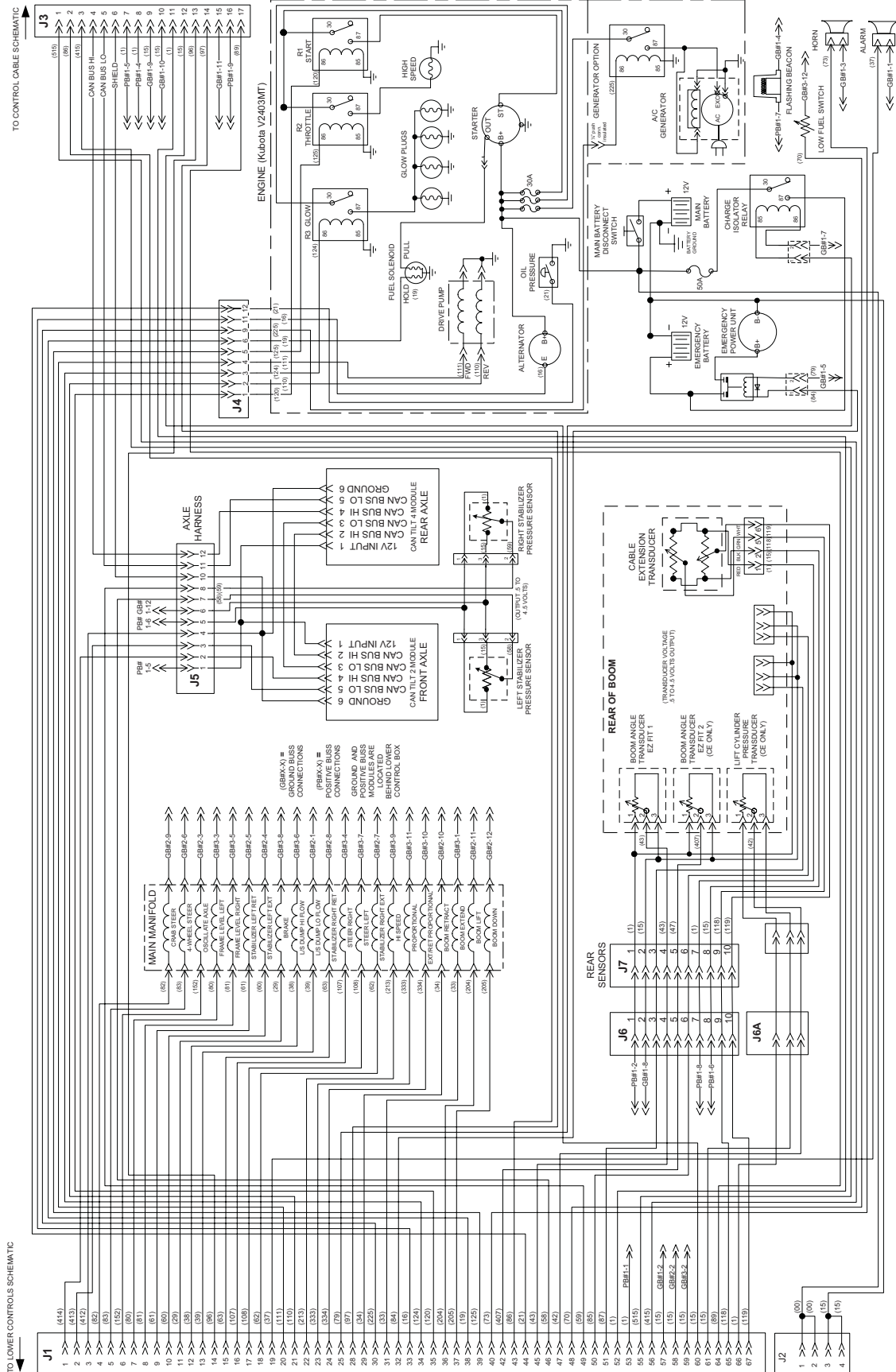


Figure 5-12: Electric Schematic, Control Cable, Optional Overload Sensing System

OPTIONAL OVERLOAD SENSING SYSTEM

MEC SCHEMATIC -- Control Cable Publication Art #: ART_3841
 Titan Boom 40-S | Serial #1240001-UP Reference Art #: 22632

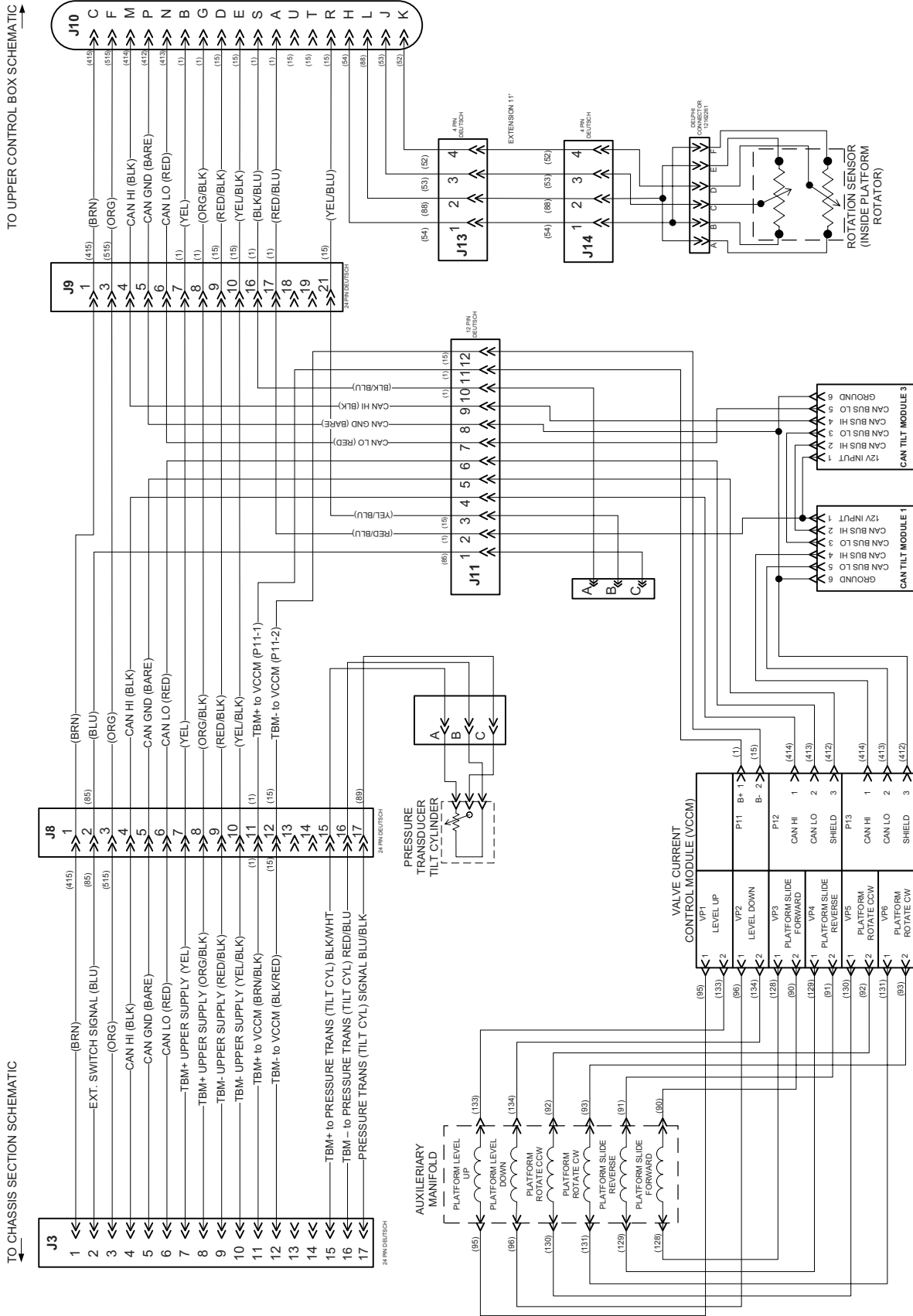


Figure 5-13: Electric Schematic, Upper Control Box, All Machines

SCHEMATIC -- Upper Controls Publication Art #: ART_3703
 Titan Boom 40-S | Serial #12400001 - UP Reference Art #: 22552

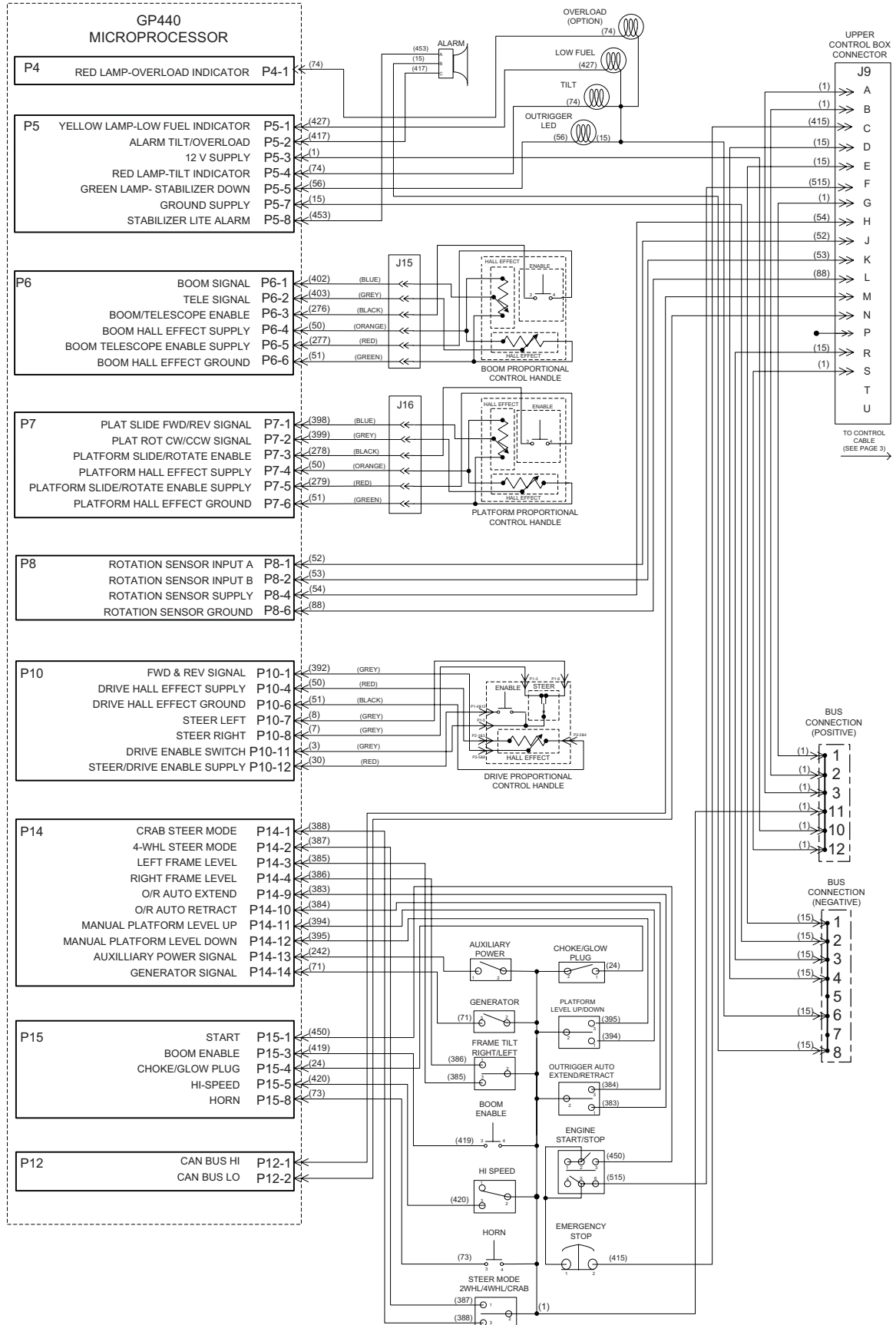


Figure 5-14: Sensor Locations

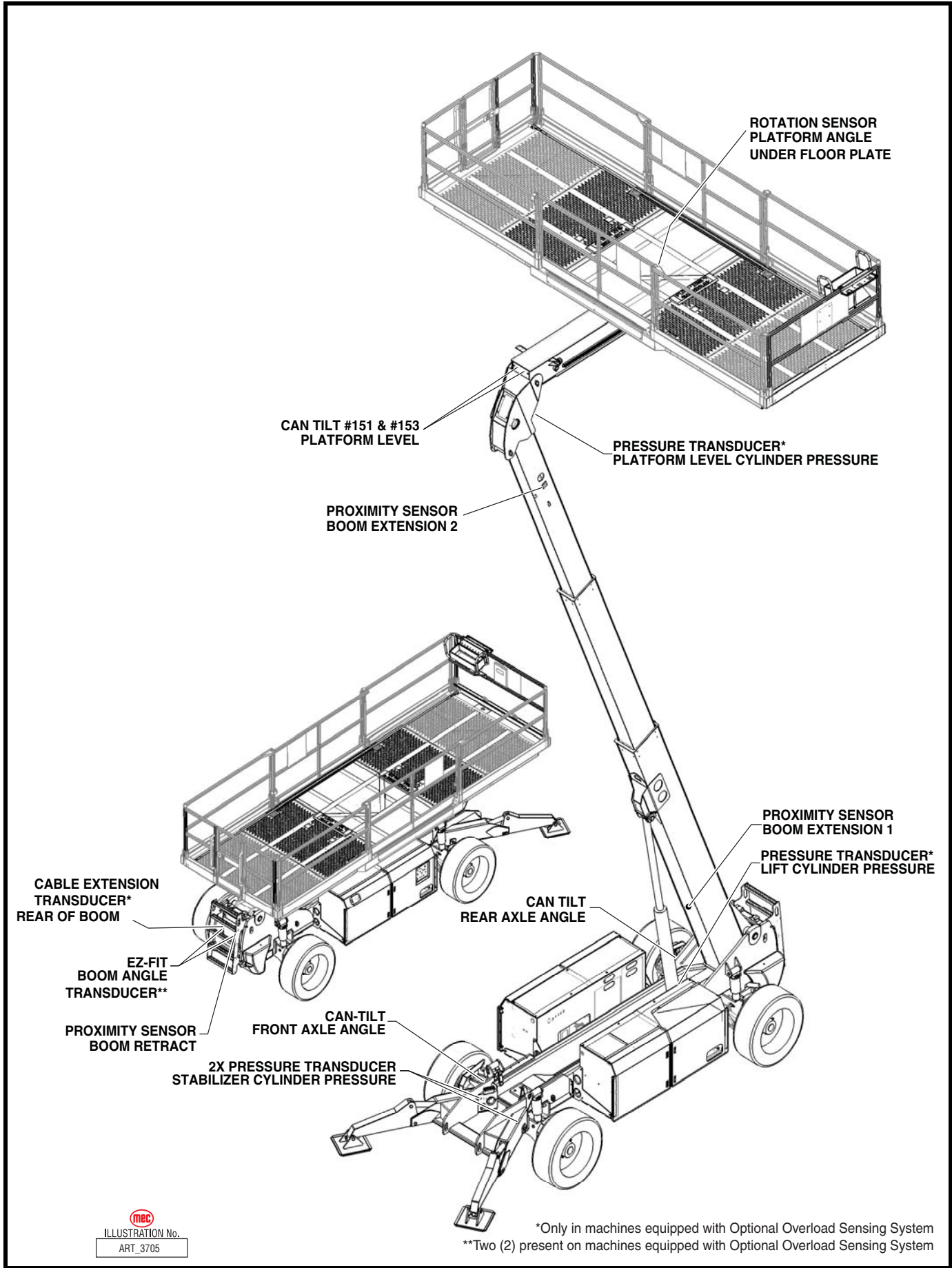



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