



# SECTION 5

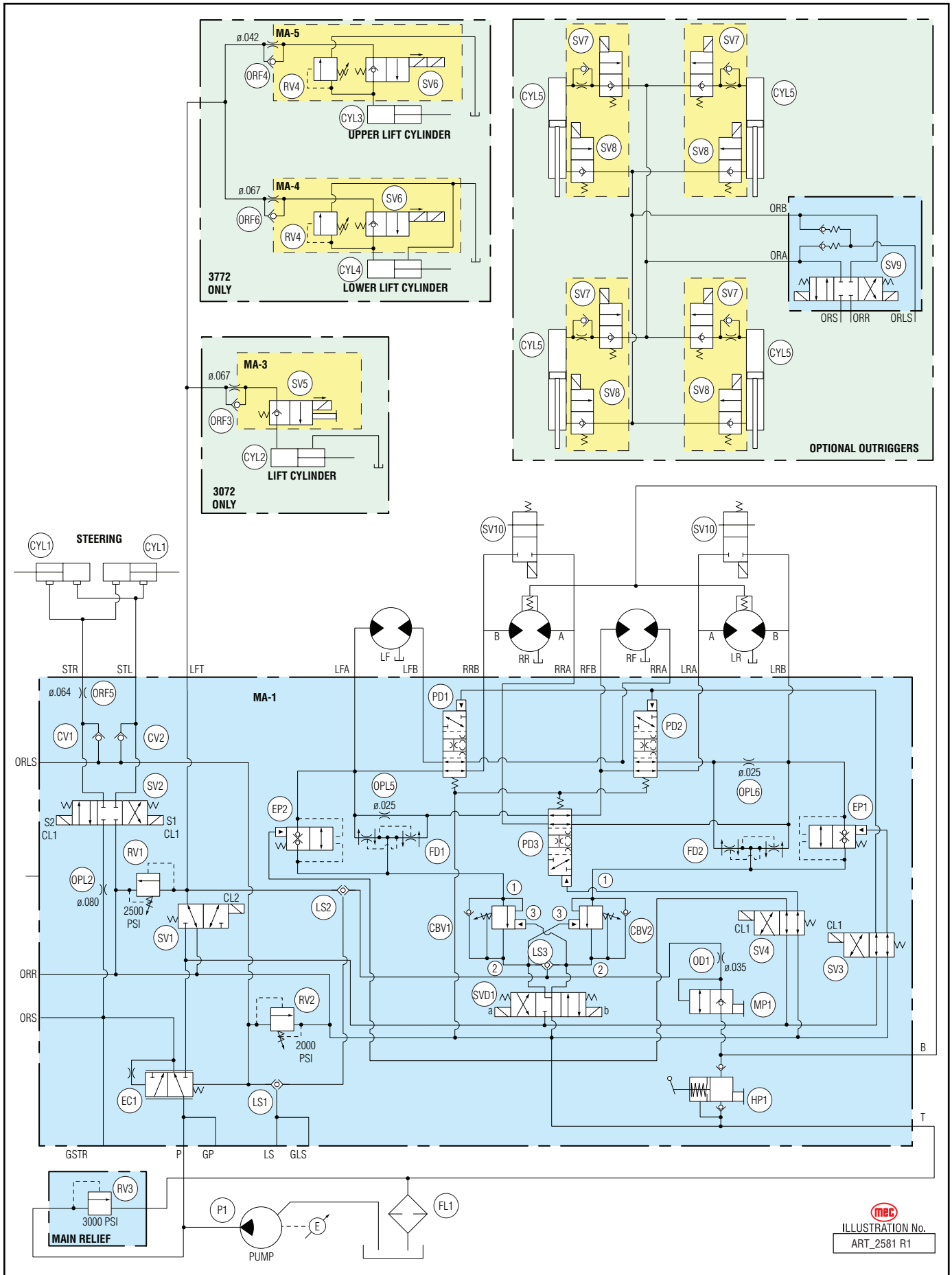
## SCHEMATICS

<b>Hydraulic Schematic</b> .....	<b>5-2</b>
Main Hydraulic Manifold.....	5-4
Main Relief Hydraulic Manifold .....	5-5
Optional Outriggers Hydraulic Manifold .....	5-5
<b>Electric System</b> .....	<b>5-6</b>
Electric Schematics: Upper Controls, Early Models .....	5-6
Electric Schematics: Upper Controls, Current Models .....	5-7
Electric Schematics: Base .....	5-8
P600 Motor Control Module .....	5-9
GP400 Matrix Module .....	5-10
Matrix Module Controller.....	5-11

# HYDRAULIC SCHEMATIC

Callout	Description
	Lift Cylinder Components (3072ES)
CYL2	Cylinder
MA3	Manifold, Lift Cylinder
SV5	Solenoid Valve - 12V Cable Attach
ORF3	Orifice - 0.067
	Lift Cylinder Components (3772ES)
CYL3	Cylinder, Upper
MA5	Manifold, Lift Cylinder, Upper
SV6	Solenoid Valve - 12V Dual Coil
RV4	Relief Valve - 3200 PSI
ORF4	Orifice - 0.067
CYL4	Cylinder, Lower
MA4	Manifold, Lift Cylinder, Lower
SV6	Solenoid Valve - 12V Dual Coil
RV4	Relief Valve - 3200 PSI
ORF6	Orifice - 0.042
	Wheel Motor Components
LF	Wheel Motor - Left Front
LR	Wheel Motor - Left Rear
SV10	Solenoid Valve – Cross Port Valve
RF	Wheel Motor - Right Front
RR	Wheel Motor - Right Rear
SV10	Solenoid Valve – Cross Port Valve
P1	Pump - Fixed Displacement
FL1	Return Filter - 10 Micron
CYL1	Cylinder, Steering
	Optional Outriggers Components
CYL5	Outrigger Cylinder
SV7	Solenoid Valve, Poppet N.C.
SV8	Solenoid Valve, Poppet N.C.
SV9	Spool Valve, 4-way, - 3-Position

Callout	Description
	Manifold Components
MA1	Manifold, Main Valve Block
SVD1	Spool Valve, Drive, 4-Way - 3-Position
SV1	Spool Valve, Lift, 3-Way
SV2	Spool Valve, Steer, 4-Way - 3-Position
SV3 - SV4	Spool Valve, Series Parallel, 4-Way - 3-Position
RV1	Relief Valve, Lift - 2500 PSI
RV2	Relief Valve, Steer - 1500 PSI
PD1 - PD2 - PD3	Piloted Spool Valve, 4-Way - 3-Position
EP1 - EP2	Piloted Poppet Valve
MP1	Manual Pull Valve
LS1 - LS2 - LS3	Load Sense Shuttle Check Valve
CBV1 - CBV2	Counter Balance Valve
CL1	Coil, Series 8 - 12V
CL2	Coil, Series 10 - 12V
CL3	Coil, Series 10 E-Coil - 12V
HP1	Hand Pump, Brake Release
FD1 - FD2	Flow Divider / Combiner
EC1	Pressure Compensator
CV1 - CV2	Check Valve, Load Sense
OD1	Orifice Disc, Brake - 0.035
OPL2	Orifice Plug, Steer - 0.080
OPL5 - OPL6	Orifice Plug, Flow Divider Bleed - 0.025
ORF5	Orifice, Steer Control - 0.064
	Main Relief Manifold
RV3	Main Relief Valve



# Main Hydraulic Manifold

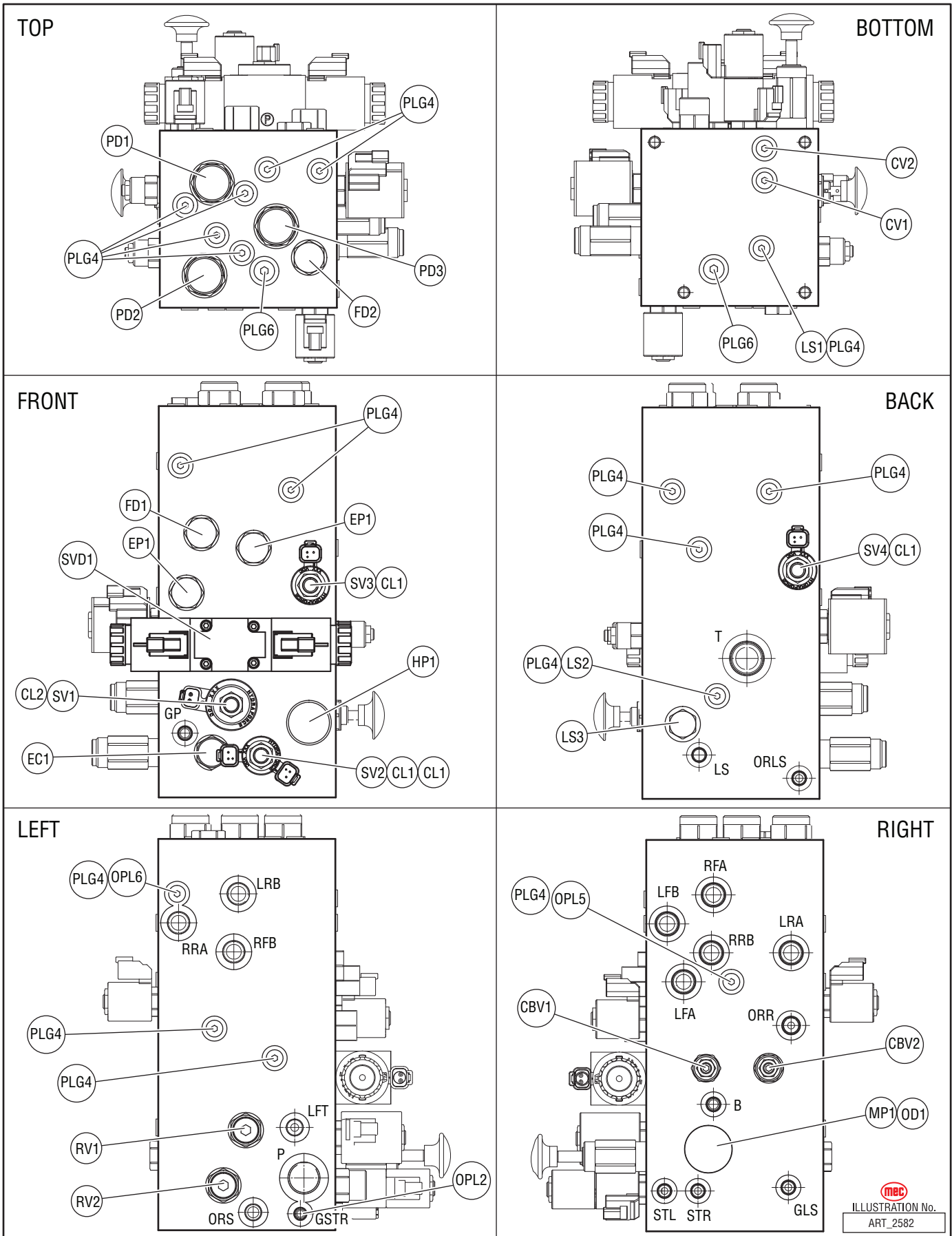
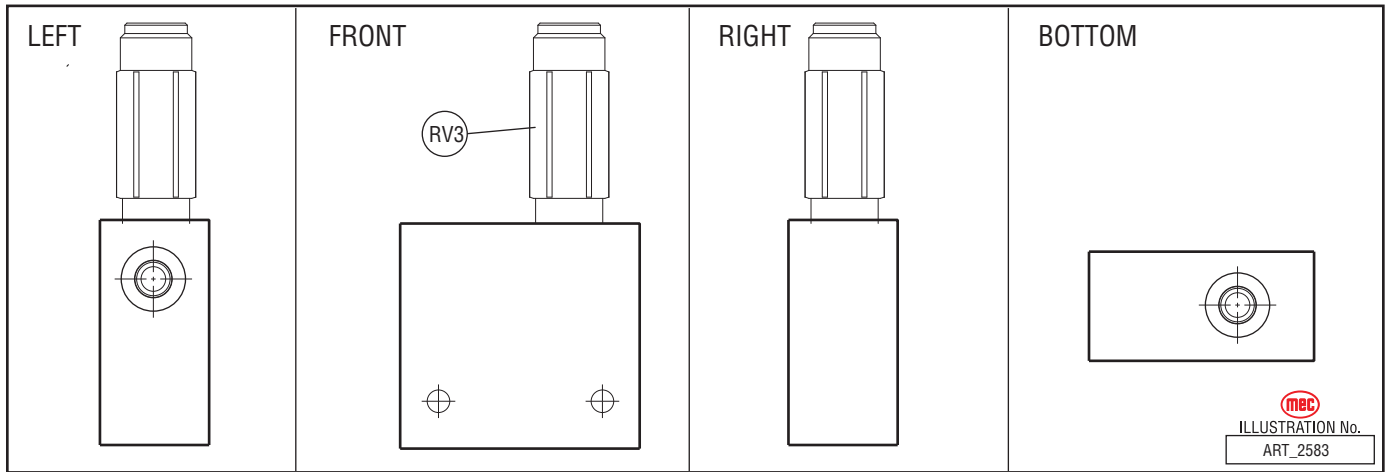
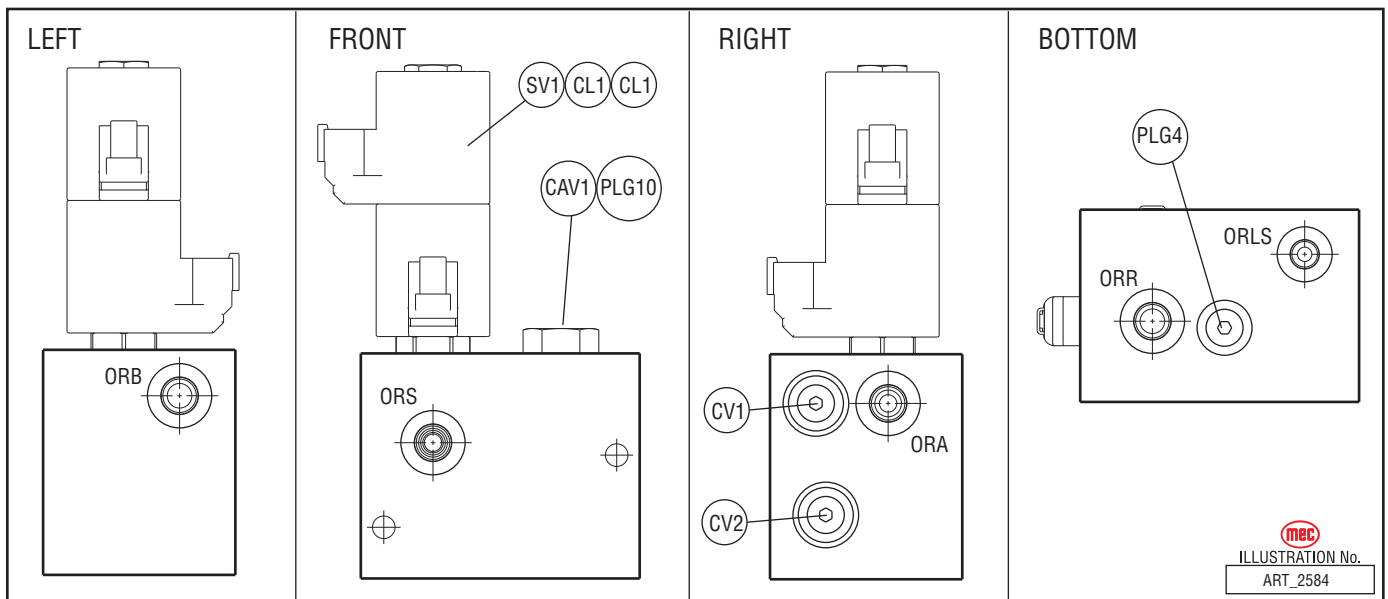


ILLUSTRATION No.  
ART\_2582

## Main Relief Hydraulic Manifold

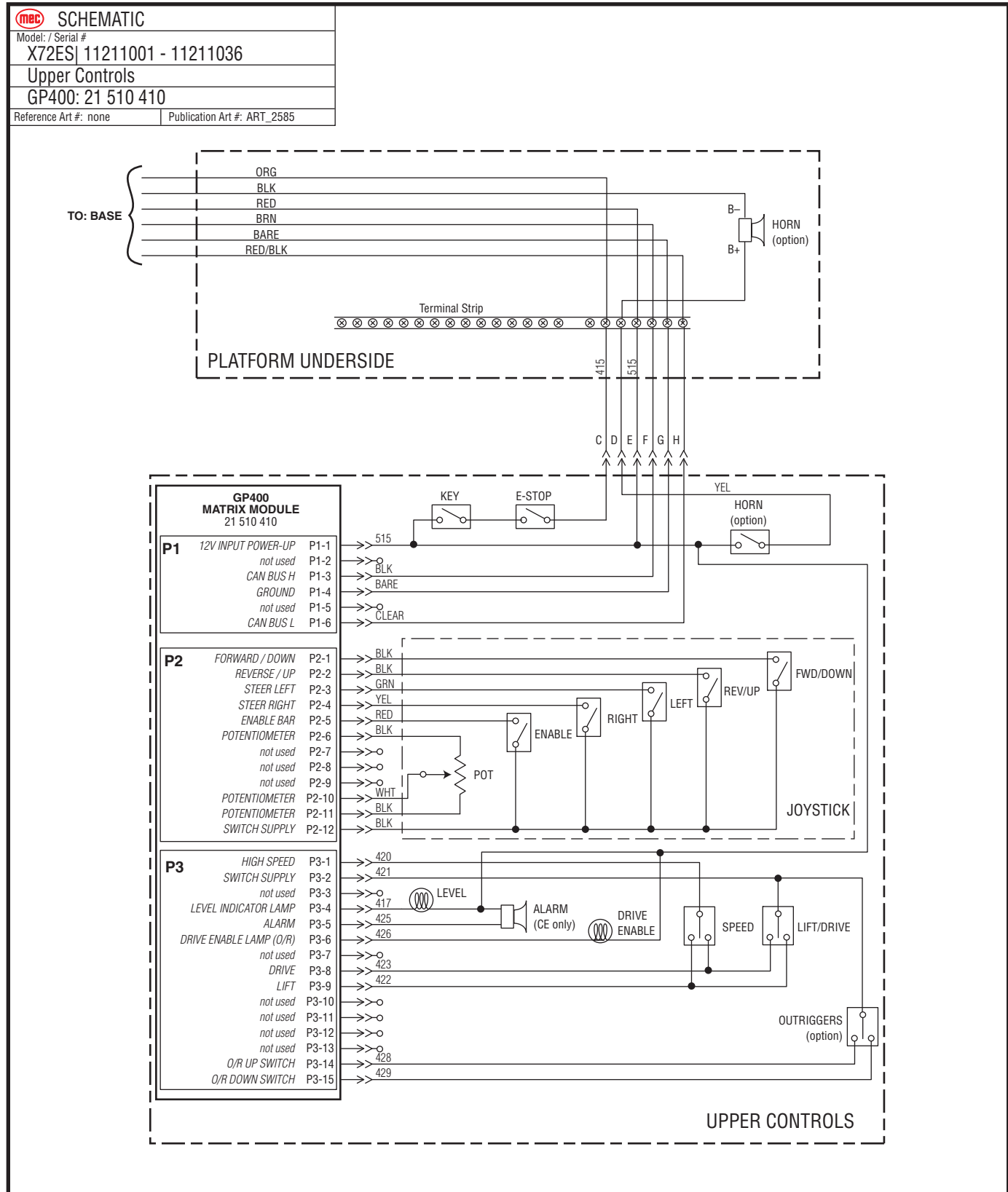


## Optional Outriggers Hydraulic Manifold



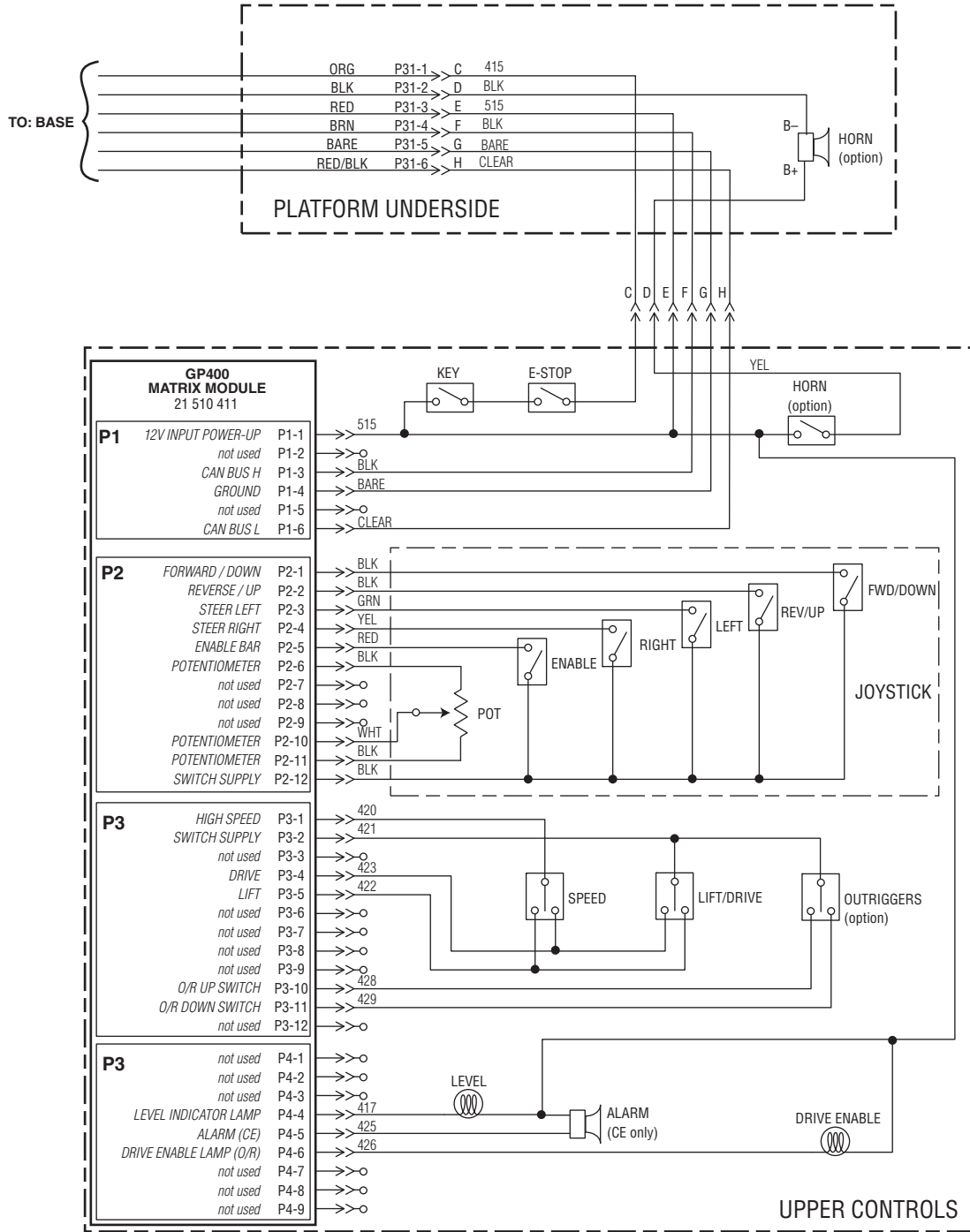
# ELECTRIC SYSTEM

## Electric Schematics: Upper Controls, Early Models

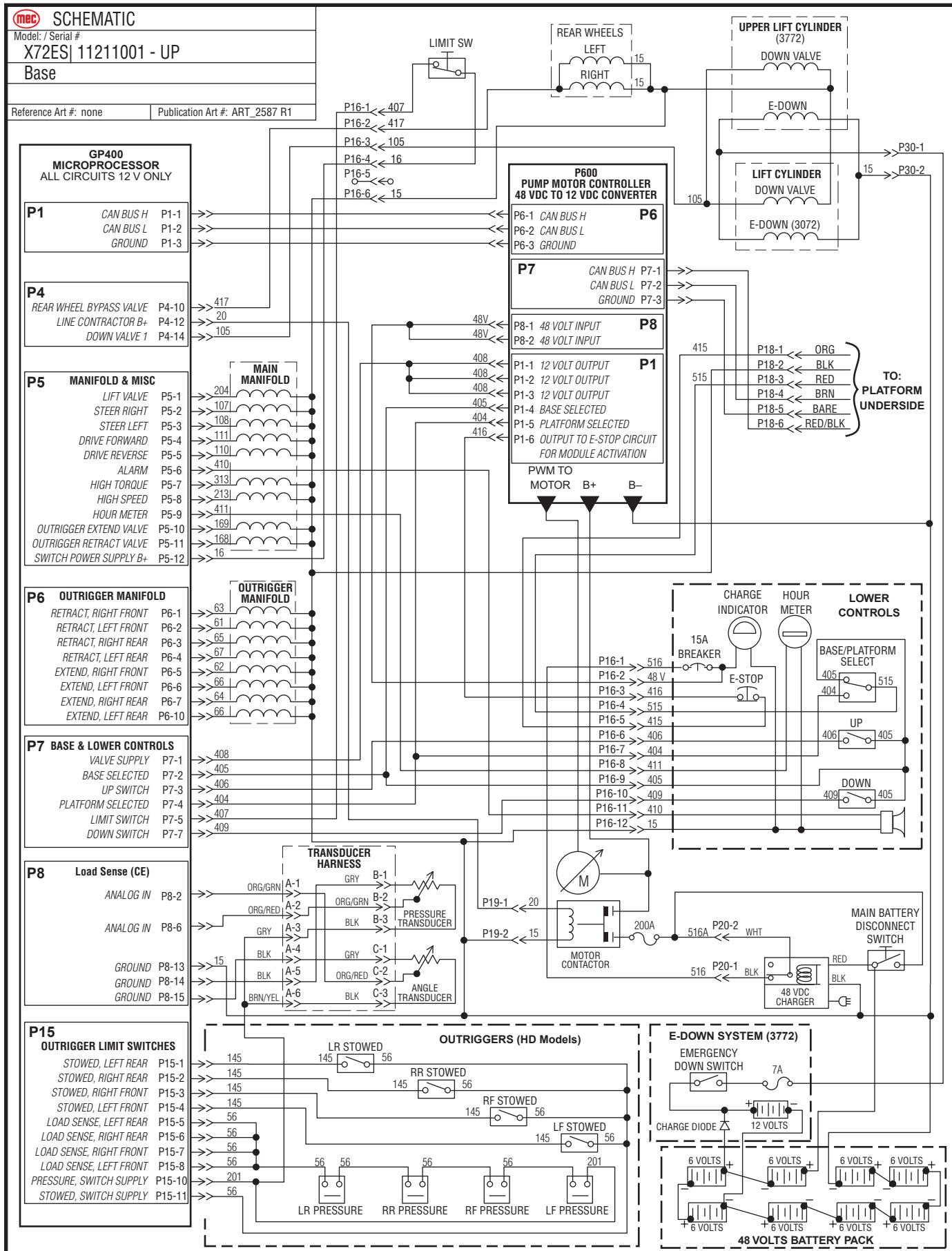


# Electric Schematics: Upper Controls, Current Models

<b>MBC</b> SCHEMATIC	
Model / Serial # X72ES   11211037 - UP	
Upper Controls GP400: 21 510 411	
Reference Art #: none	Publication Art #: ART_2586



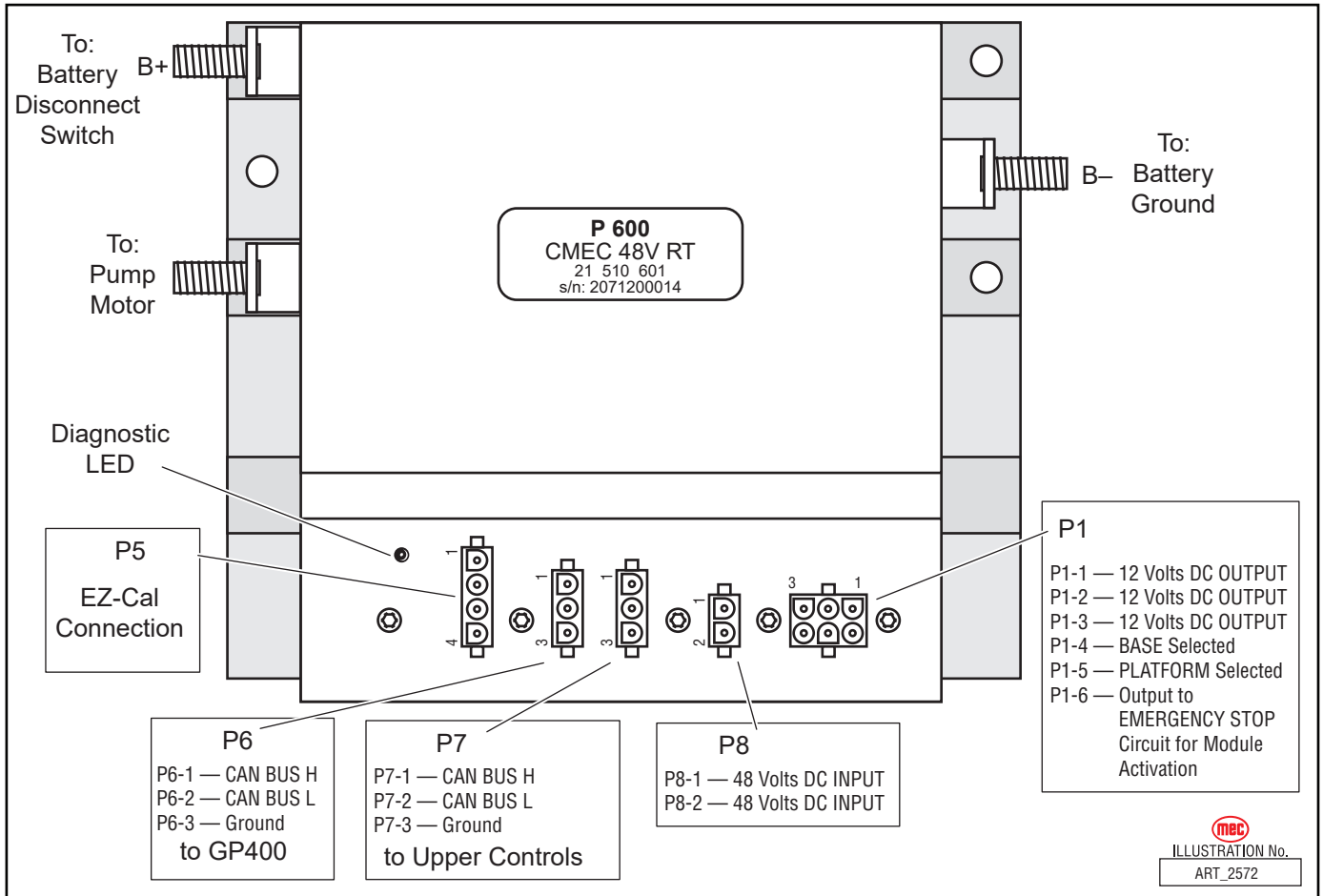
# Electric Schematics: Base





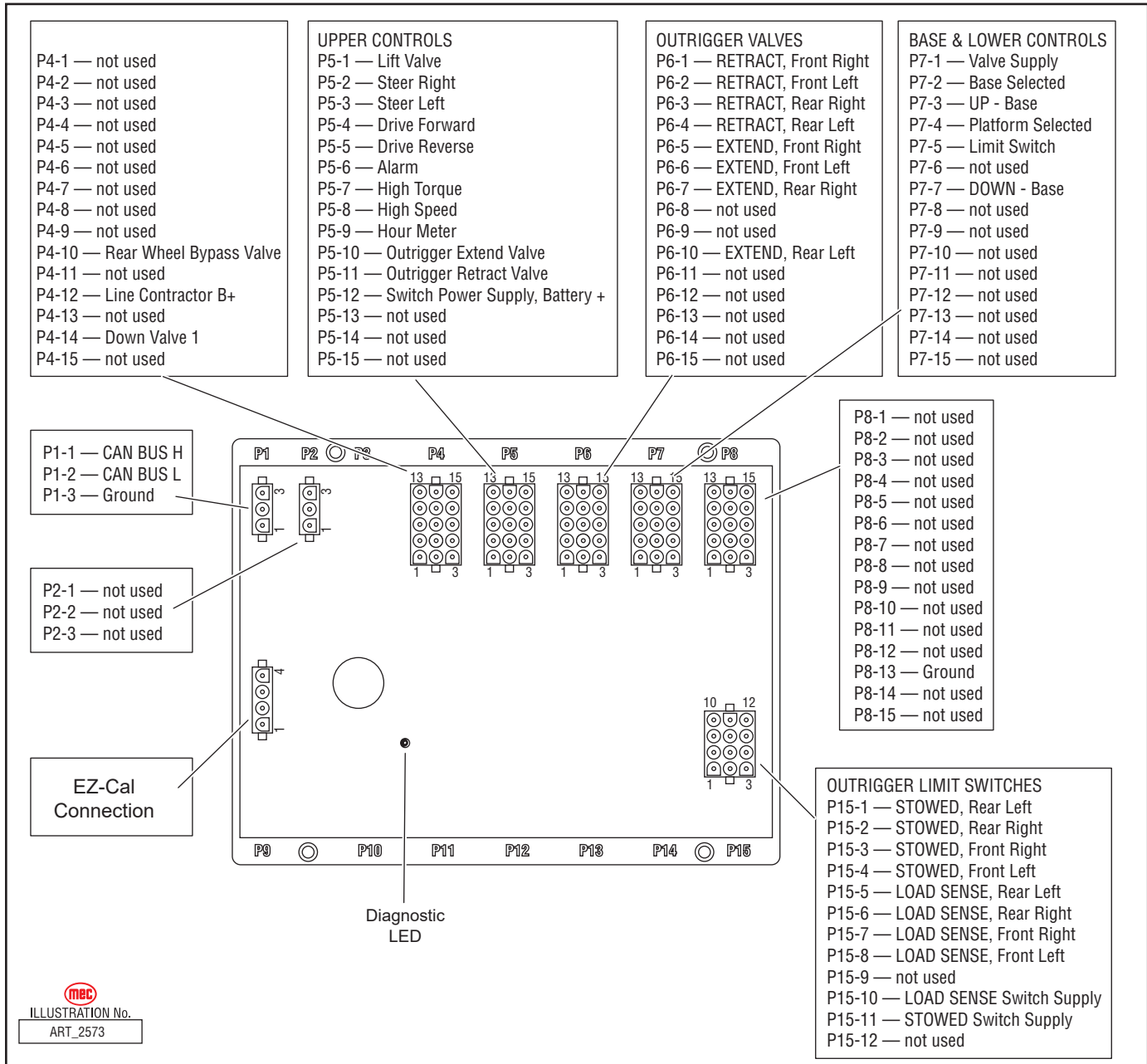
# P600 Motor Control Module

Located in Control Module behind lower controls.



# GP400 Matrix Module

Located in Control Module behind lower controls.



# Matrix Module Controller

Located in Control Module behind lower controls.

