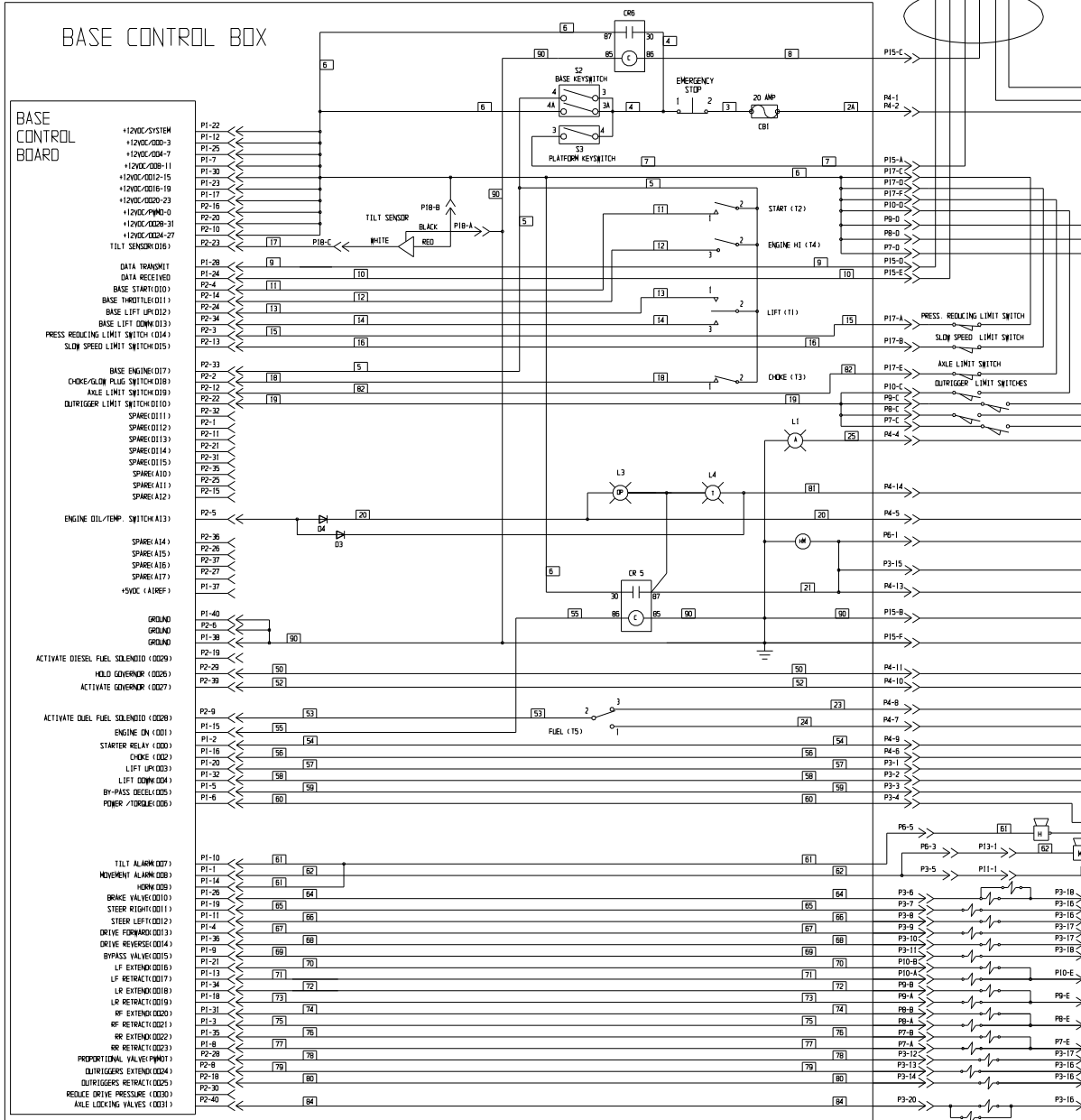
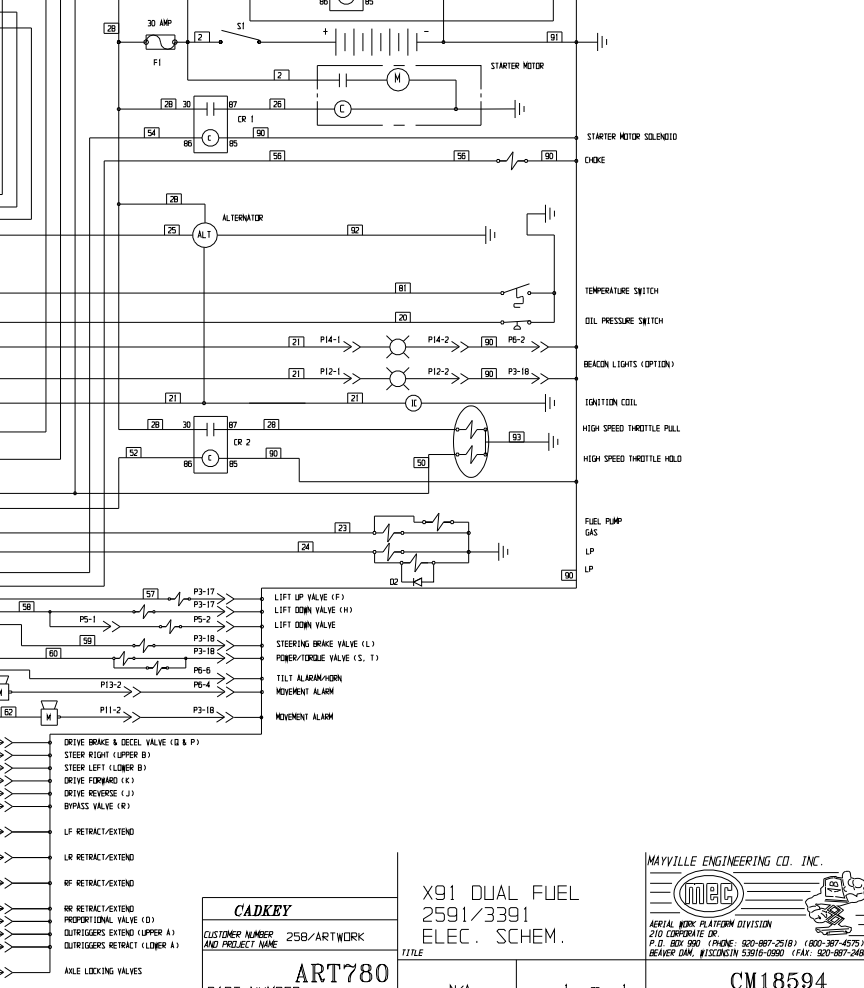
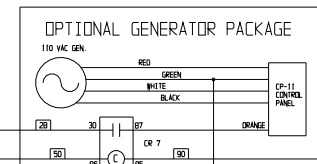
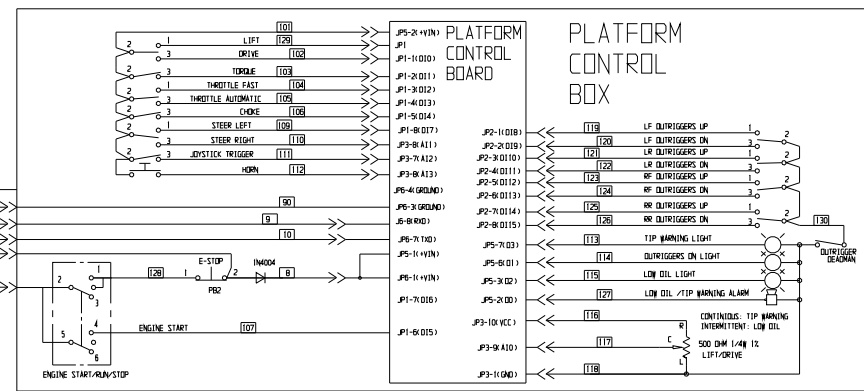


9586 DECAL, CNTRL BOARD ERROR CODES

- EC01 - DATA LINE PROBLEM OR PROBLEM AT PLATFORM
- EC02 - BAD CONNECTION AT JOYSTICK
- EC03 - SHORT OR OPEN CONNECTION AT STARTER RELAY
- EC04 - SHORT OR OPEN CONNECTION AT CHOKE/GLOW PLUG
- EC05 - SHORT OR OPEN CONNECTION AT LIFT UP
- EC06 - SHORT OR OPEN CONNECTION AT LIFT DOWN
- EC07 - SHORT OR OPEN CONNECTION AT STEERING BRAKE
- EC08 - SHORT OR OPEN CONNECTION AT TORQUE
- EC09 - SHORT OR OPEN CONNECTION AT MOVEMENT ALARM
- EC10 - SHORT OR OPEN CONNECTION AT HORN
- EC11 - SHORT OR OPEN CONNECTION AT BRAKE VALVE
- EC12 - SHORT OR OPEN CONNECTION AT STEER RIGHT
- EC13 - SHORT OR OPEN CONNECTION AT STEER LEFT
- EC14 - SHORT OR OPEN CONNECTION AT DRIVE FORWARD
- EC15 - SHORT OR OPEN CONNECTION AT DRIVE REVERSE
- EC16 - SHORT OR OPEN CONNECTION AT BYPASS
- EC17 - SHORT OR OPEN CONNECTION AT OUTRIGGER LEFT FRONT EXTEND
- EC18 - SHORT OR OPEN CONNECTION AT OUTRIGGER LEFT FRONT RETRACT
- EC19 - SHORT OR OPEN CONNECTION AT OUTRIGGER LEFT REAR EXTEND
- EC20 - SHORT OR OPEN CONNECTION AT OUTRIGGER LEFT REAR RETRACT
- EC21 - SHORT OR OPEN CONNECTION AT OUTRIGGER RIGHT FRONT EXTEND
- EC22 - SHORT OR OPEN CONNECTION AT OUTRIGGER RIGHT FRONT RETRACT
- EC23 - SHORT OR OPEN CONNECTION AT OUTRIGGER RIGHT REAR EXTEND
- EC24 - SHORT OR OPEN CONNECTION AT OUTRIGGER RIGHT REAR RETRACT
- EC25 - SHORT OR OPEN CONNECTION AT EXTEND OUTRIGGERS
- EC26 - SHORT OR OPEN CONNECTION AT RETRACT OUTRIGGERS
- EC27 - SHORT OR OPEN CONNECTION AT THROTTLE HOLD
- EC28 - SHORT OR OPEN CONNECTION AT THROTTLE PULL
- EC29 - SHORT OR OPEN CONNECTION AT DIESEL HOLD
- EC30 - SHORT OR OPEN CONNECTION AT DIESEL PULL
- EC31 - OIL OR TEMPERATURE SWITCH IS ON
- EC32 - SHORT OR OPEN CIRCUIT AT PRESSURE REDUCING VALVE 4191 ONLY
- EC33 - SHORT OR OPEN CIRCUIT AT AXLE LOCKING CYLINDER 4191 ONLY



2) DIODE "D2" IS 1N5818. DIODE "D3" AND "D4" ARE 1N5404.



CADKEY

CUSTOMER NUMBER AND PROJECT NAME 258/ARTWORK

ART780

X91 DUAL FUEL
2591/3391
ELEC. SCHEM.

MAYVILLE ENGINEERING CO. INC.



AERIAL WORK PLATFORM DIVISION
210 CORPORATE DR.
P.O. BOX 990 (PHONE: 920-887-2518) (800-367-4575)
BEAVER DAM, WISCONSIN 53916-0990 (FAX: 920-887-2480)

CM18594

2) DIODE "D3" AND "D4" ARE 1N5404.



X91 DIESEL
ELEC. SCHEM.

AERIAL WORK PLATFORM DIVISION
210 CORPORATE DR.
P.O. BOX 990 (PHONE: 920-887-2518) (800-387-4575)
BEAVER DAM, WISCONSIN 53916-0990 (FAX: 920-887-2480)

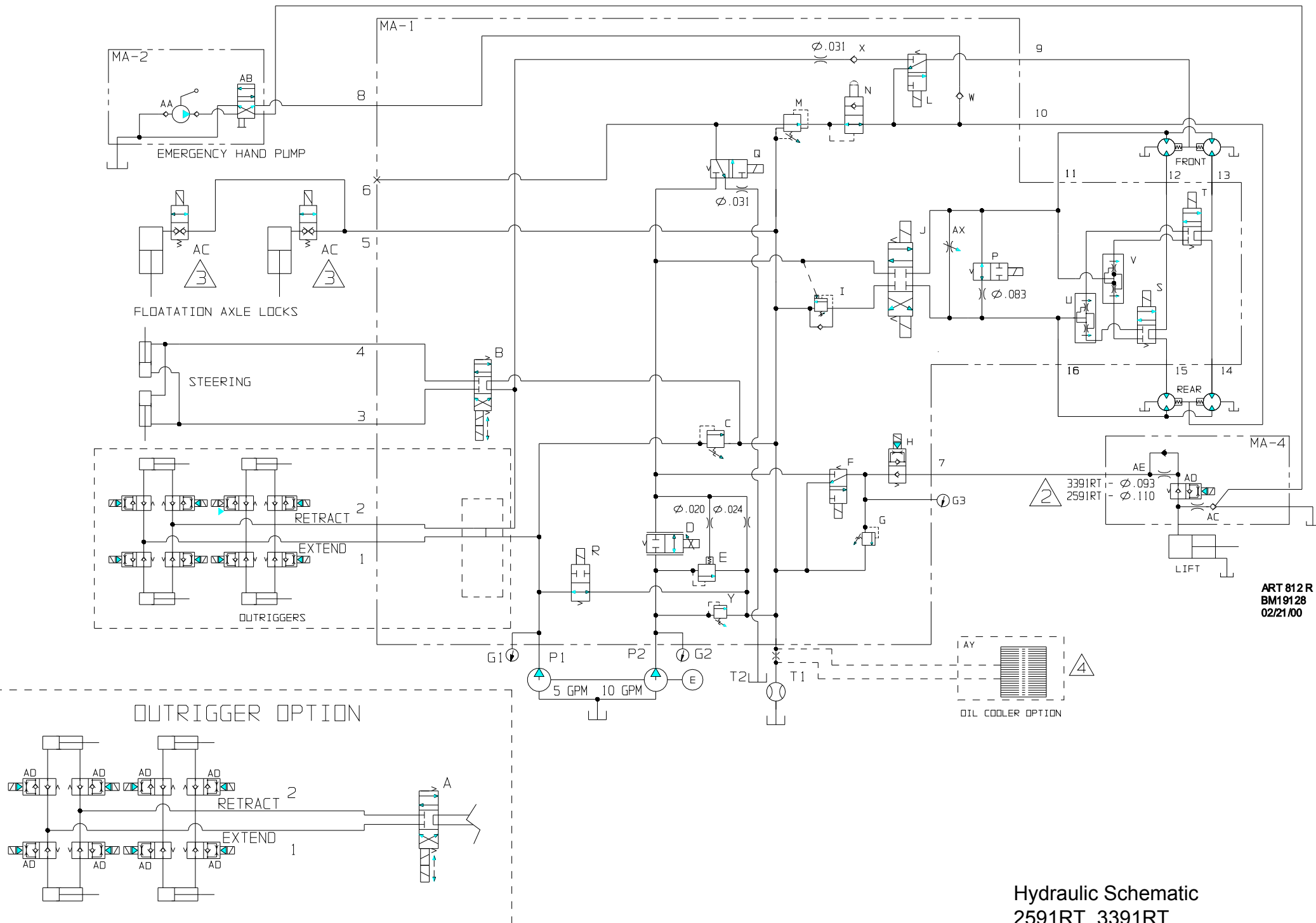
CM20140

NOTE: 1) UNLESS OTHERWISE SPECIFIED SWITCHES AND CONTACTS SHOWN IN THE STOWED POSITION.
2) DIODES "D1" & "D2" ARE 1N5404. DIODE "D3" IS 1N4007.

BASE CONTROL BOX

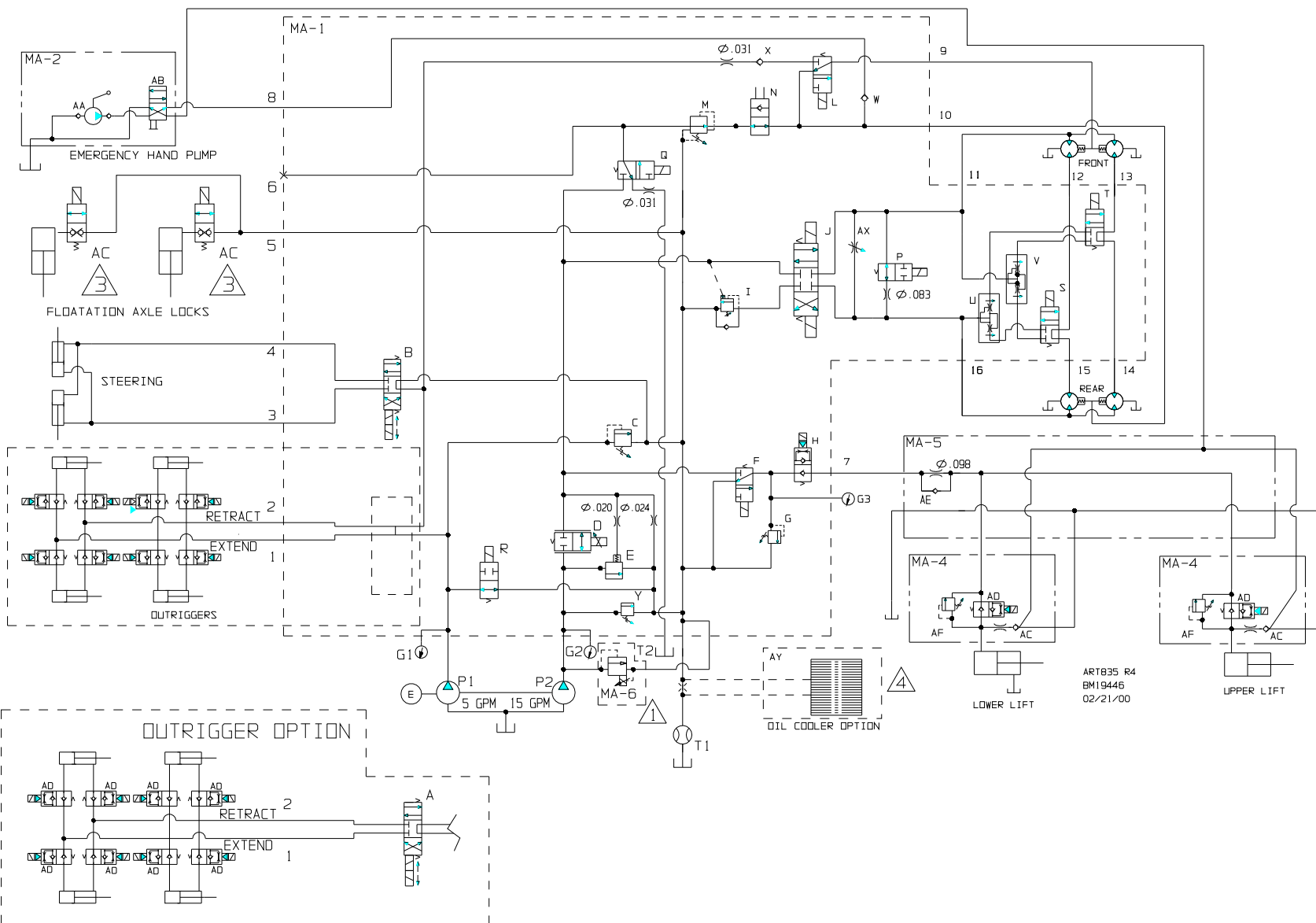
BASE CONTROL BOARD

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+12VDC/012-15
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+12VDC/020-23
+12VDC/024-27
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Hydraulic Schematic
2591RT, 3391RT

LETTER CALLOUT	MAYVILLE PART NO.	PART DESCRIPTION	VALVE - PRESSURE SETTINGS
MA-1	9445	MANIFOLD ASSY (10 GPM) WITH OUTRIGGERS	N/A
MA-1	9467	MANIFOLD ASSY (10 GPM) NO OUTRIGGERS	N/A
MA-2	20601	MANIFOLD ASSY E-DOWN	N/A
MA-4	20862	LIFT CYLINDER ASSY	N/A
A	9041	4W3P TANDEM CENTER VALVE <i>OUTRIGGERS</i>	N/A
B	9041	4W3P TANDEM CENTER VALVE <i>STEER</i>	N/A
C	9664	RELIEF VALVE <i>STEER</i>	1500 PSI
D	9671	CARTRIDGE 4G SPOOL <i>PROPORTIONAL</i>	N/A
E	9670	PRESSURE COMP REG VALVE	N/A
F	6976	3W2P SPOOL VALVE <i>LIFT</i>	N/A
G	9663	RELIEF VALVE 2591RT <i>LIFT</i>	2000 PSI
G	9663	RELIEF VALVE 3391RT <i>LIFT</i>	2250 PSI
H	6973	2W NC VALVE <i>DOWN</i>	N/A
I	9669	COUNTERBALANCE VALVE	1500 PSI
J	9668	4W3P DO3 VALVE <i>DRIVE DIRECTIONAL</i>	N/A
L	6976	3W2P SPOOL VALVE <i>FRONT BRAKE</i>	N/A
M	9666	PRESSURE REDUCING VALVE	500 PSI
N	9665	MANUAL VALVE (FREE WHEELING)	N/A
P	6975	2W SPOOL VALVE <i>DECEL</i>	N/A
Q	6976	3W2P SPOOL VALVE <i>BRAKE</i>	N/A
R	9511	2W NO VALVE <i>STEER DUMP</i>	N/A
S	8373	4W2P TAN CTR SPOOL VALVE <i>TORQUE</i>	N/A
T	8373	4W2P TAN CTR SPOOL VALVE <i>TORQUE</i>	N/A
U	9667	FLOW DIVIDER/COMBINER	N/A
V	9667	FLOW DIVIDER/COMBINER	N/A
W	9504	CHECK VALVE	N/A
X	9504	CHECK VALVE	N/A
Y	9711	RELIEF VALVE <i>MAIN</i>	3000 PSI
AA	8849	HYDRAULIC HAND PUMP VALVE	N/A
AB	8848	MANUAL PULL 4-WAY VALVE	N/A
AC	90304	N.C. BI-DIRECTIONAL POPPET VALVE	N/A
AD	6973	N.C. POPPET 2-WAY VALVE	N/A
AE	9767	ORIFICE, UNIDIRECTION (.093) 3391RT	N/A
	9875	ORIFICE, UNIDIRECTION (.11) 2591RT	N/A
AX	9505	NEEDLE VALVE (FREE WHEELING)	N/A
	9672	COIL 12 VDC	N/A
	9519	COIL	N/A
	9520	COIL	N/A
AY	21129	OPTION-OIL COOLER	N/A



ART835 R4
BM19446
02/21/00

LETTER CALLOUT	MAYVILLE PART NO.	PART DESCRIPTION	VALVE - PRESSURE SETTINGS
MA-1	9656	MANIFOLD ASSY (15 GPM) WITH OUTRIGGERS	N/A
MA-1	9657	MANIFOLD ASSY (15 GPM) NO OUTRIGGERS	N/A
MA-2	20601	MANIFOLD ASSY E-DOWN	N/A
MA-4	20395	LIFT CYLINDER ASSY	N/A
MA-5	20589	JUNCTION BLOCK ASSEMBLY	N/A
MA-6	9926	REG, PRESS. TS10-26A-8T-N12DG <i>ELEV. DRIVE</i>	1000 PSI
	9929	CARTRIDGE, PRESET TS10-26A-0-N-00	N/A
	9928	COIL, 12 VOLT W/DIN CONN.	N/A
<i>A</i>		<i>4W3P TANDEM CENTER OUTRIGGERS</i>	
<i>B</i>		<i>4W3P TANDEM CENTER STEER</i>	
<i>C</i>		<i>RELIEF VALVE STEER</i>	<i>1500 PSI</i>
<i>D</i>		<i>2WNC VALVE PROPORTIONAL</i>	
E	9670	PRESSURE COMP REG VALVE	N/A
F	6976	3W2P SPOOL VALVE <i>LIFT</i>	N/A
G	9663	RELIEF VALVE 2591RT <i>LIFT</i>	2000 PSI
H	6973	2W NC VALVE <i>DOWN</i>	N/A
I	9669	COUNTERBALANCE VALVE	1500 PSI
J	9668	4W3P DO3 VALVE <i>DRIVE DIRECTIONAL</i>	N/A
L	6976	3W2P SPOOL VALVE <i>FRONTBRAKES</i>	N/A
M	9666	PRESSURE REDUCING VALVE	500 PSI
N	9665	MANUAL VALVE (FREE WHEELING)	N/A
P	6975	2W SPOOL VALVE <i>DECEL</i>	N/A
Q	6976	3W2P SPOOL VALVE <i>BRAKE</i>	N/A
R	9511	2W NO VALVE <i>STEER DUMP</i>	N/A
S	8373	4W2P TAN CTR SPOOL VALVE <i>TORQUE</i>	N/A
T	8373	4W2P TAN CTR SPOOL VALVE <i>TORQUE</i>	N/A
U	9667	FLOW DIVIDER/COMBINER	N/A
V	9667	FLOW DIVIDER/COMBINER	N/A
W	9504	CHECK VALVE	N/A
X	9504	CHECK VALVE	N/A
Y	9711	RELIEF VALVE <i>MAIN</i>	3000 PSI
AA	8849	HYDRAULIC HAND PUMP VALVE	N/A
AB	8848	MANUAL PULL 4-WAY VALVE	N/A
AC	90304	N.C. BI-DIRECTIONAL POPPET VALVE	N/A
AD	6973	N.C. POPPET 2-WAY VALVE	N/A
AE	9768	ORIFICE, UNIDIRECTION (.098)	N/A
AF	9769	RELIEF, TAMPER PROOF VALVE	2450 PSI
AX	9505	NEEDLE VALVE (FREE WHEELING)	N/A
	9672	COIL 12 VDC	N/A
	9519	COIL	N/A
	9520	COIL	N/A
AY	21129	OPTION-OIL COOLER	N/A