



Figure 2A - Lower Control Panel Wiring

BULK HEAD MANIFOLD COMPARTMENT
SHOWING BACK SIDE OF SWITCHES, BREAKER, AND HOURMETER

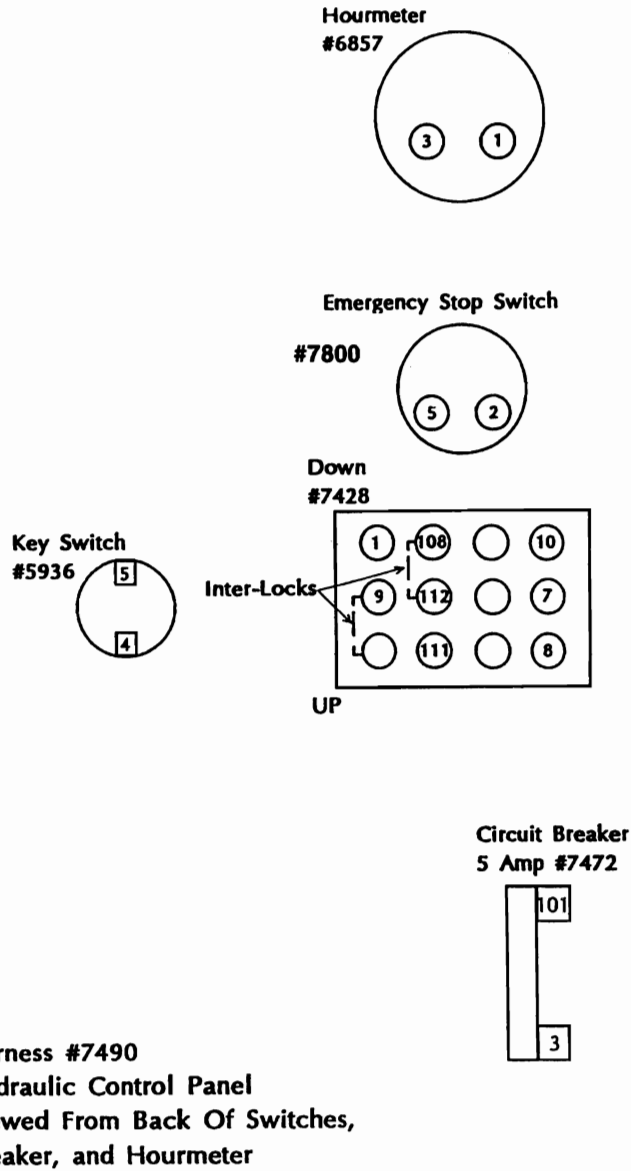


Figure 2B - Engine Control Panel Wiring

BULK HEAD ENGINE COMPARTMENT
SHOWING BACK SIDE OF SWITCHES, PILOT LIGHTS, AND BREAKERS

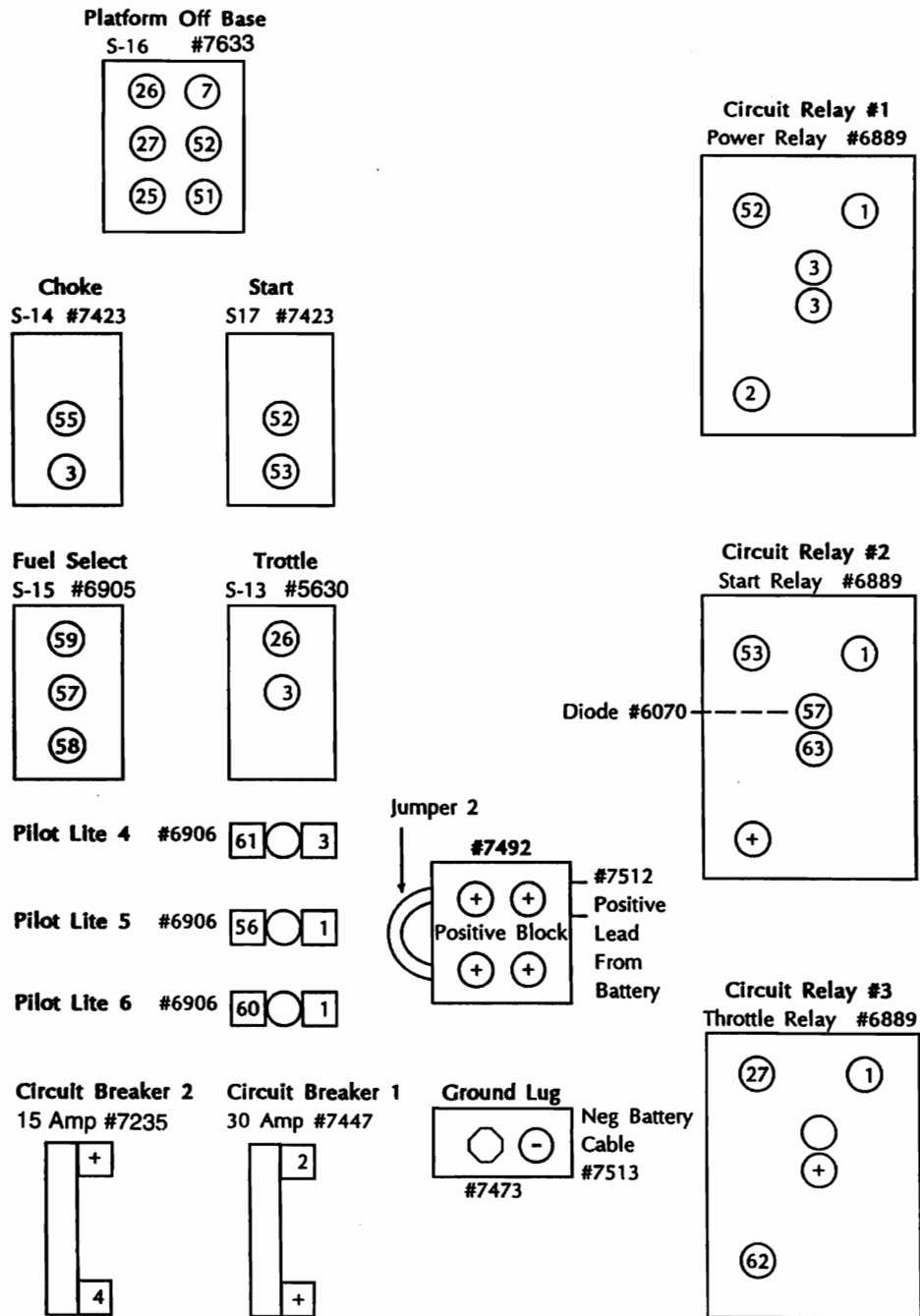
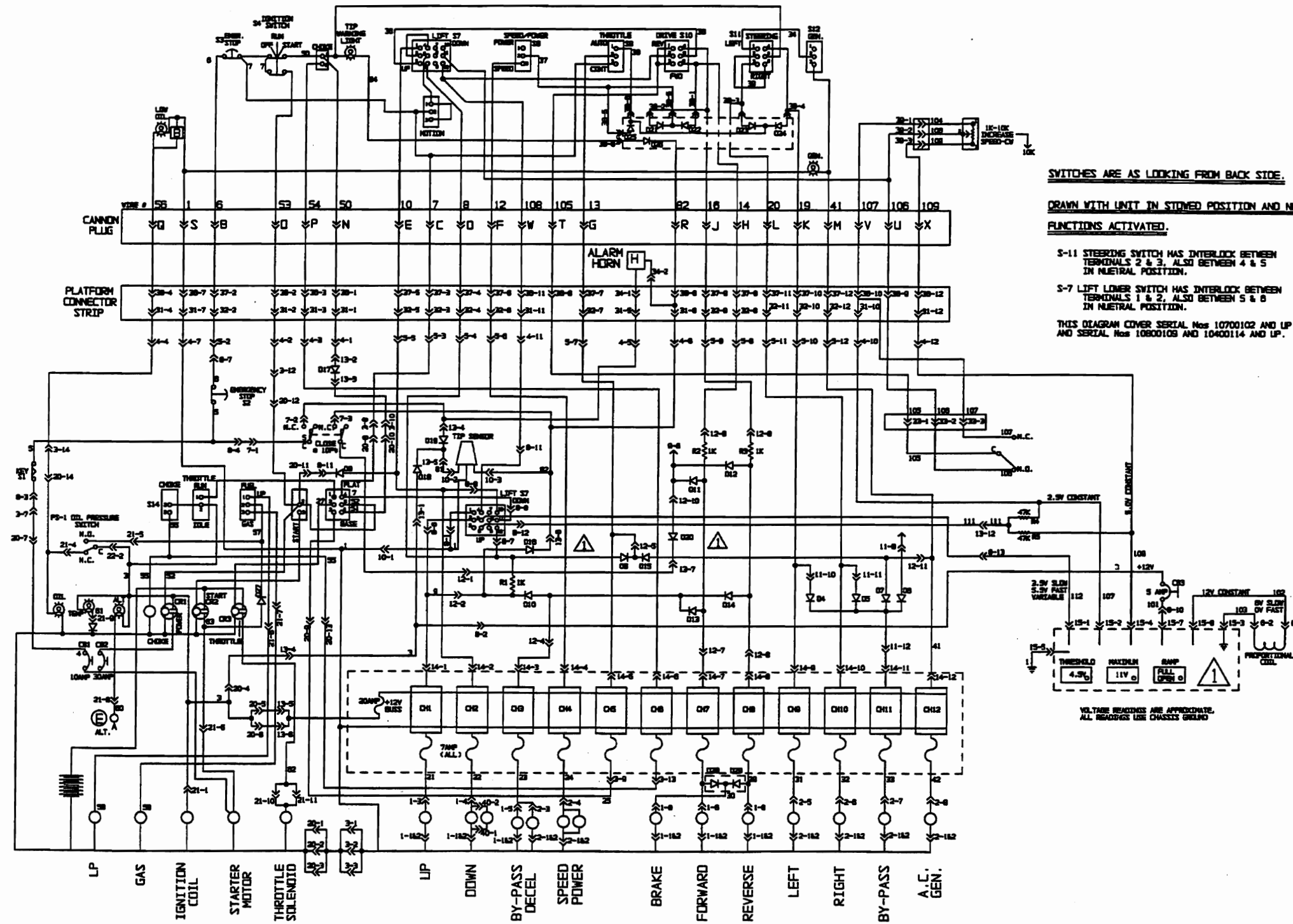


Figure 2C

DUAL FUEL ELECTRICAL WIRING DIAGRAM WITH MOTION SWITCH
QUADREX MODELS 25RT & 33RT



SWITCHES ARE AS LOOKING FROM BACK SIDE.

DRAWN WITH UNIT IN STOPPED POSITION AND NO FUNCTIONS ACTIVATED.

S-11 STEERING SWITCH HAS INTERLOCK BETWEEN TERMINALS 2 & 3, ALSO BETWEEN 4 & 5 IN NEUTRAL POSITION.

S-7 LIFT LOWER SWITCH HAS INTERLOCK BETWEEN TERMINALS 1 & 2, ALSO BETWEEN 5 & 8 IN NEUTRAL POSITION.

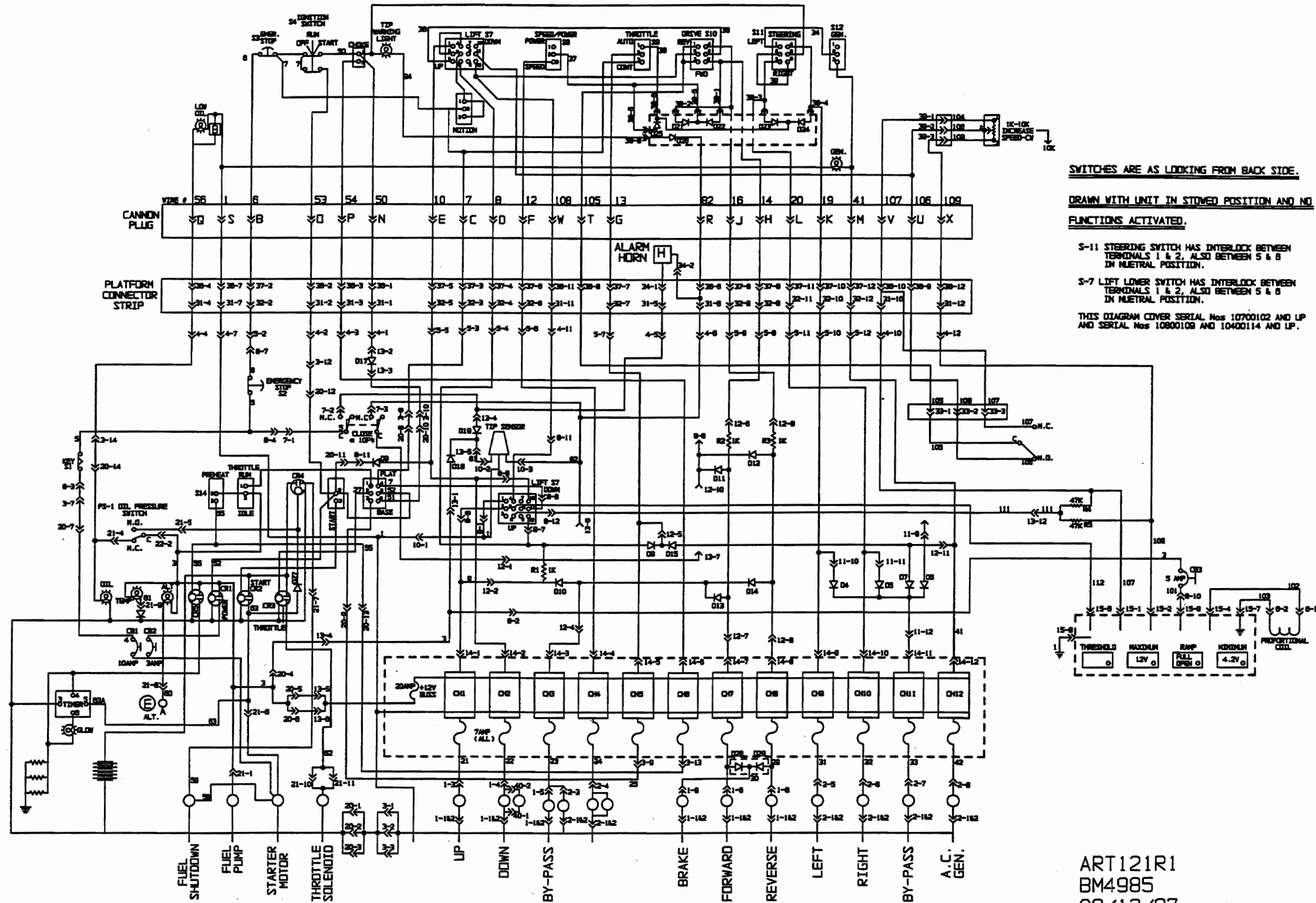
THIS DIAGRAM COVER SERIAL Nos 10700102 AND UP AND SERIAL Nos 10800108 AND 10400114 AND UP.

VOLTAGE READINGS ARE APPROXIMATE.
ALL READINGS USE CHASSIS GROUND

ART282R1
BM5031
09/12/97

Figure 2D

DIESEL ELECTRICAL WIRING DIAGRAM WITH MOTION SWITCH
QUADREX MODELS 25RT & 33RT



SWITCHES ARE AS LOOKING FROM BACK SIDE.

DRAWN WITH UNIT IN STOWED POSITION AND NO FUNCTIONS ACTIVATED.

S-11 STEERING SWITCH HAS INTERLOCK BETWEEN TERMINALS 1 & 2, ALSO BETWEEN 5 & 8 IN NEUTRAL POSITION.

S-7 LEFT LOWER SWITCH HAS INTERLOCK BETWEEN TERMINALS 1 & 2, ALSO BETWEEN 5 & 8 IN NEUTRAL POSITION.

THIS DIAGRAM COVER SERIAL Nos 10700102 AND LP AND SERIAL Nos 10800109 AND 10400114 AND LP.

ART121R1
BM4985
09/12/97

Figure 2E

DUAL FUEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT

FOR FIELD UNIT UPGRADED FROM TOGGLE BOX TO JOYSTICK
BEFORE APRIL 1, 1996 WITH AND WITHOUT OPTIONAL ANTI-RESTART KEY SWITCH KIT 20039

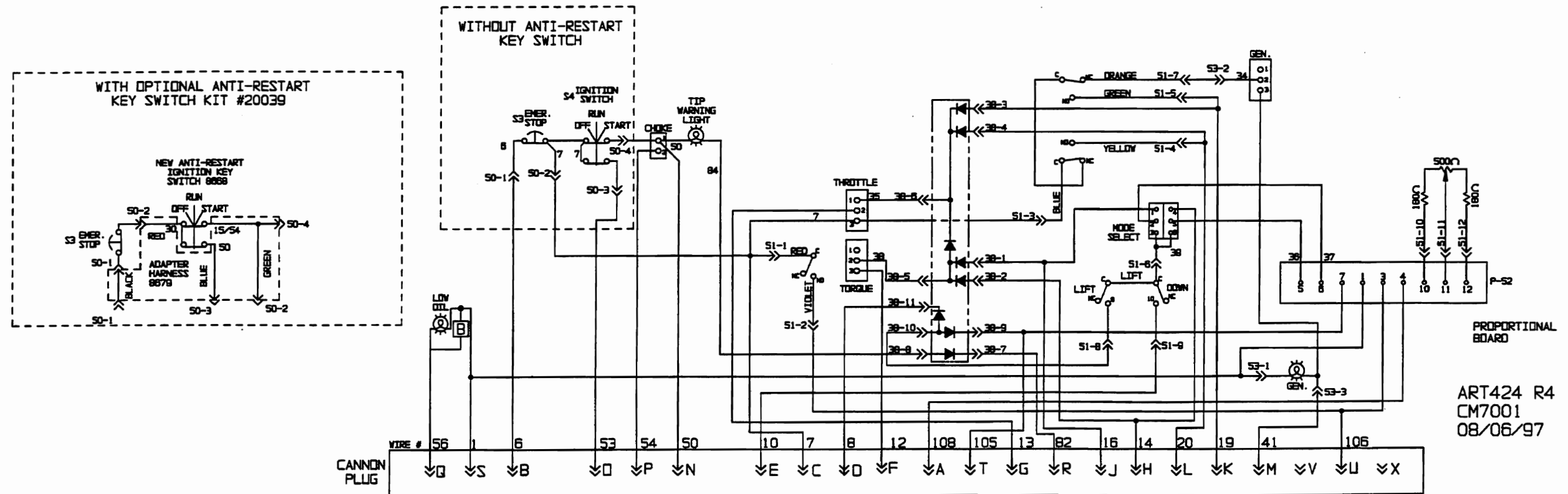


Figure 2G

DUAL FUEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT

FOR FIELD UNIT UPGRADED FROM TOGGLE BOX TO JOYSTICK
AFTER APRIL 1, 1996 WITH STANDARD ANTI-RESTART KEY SWITCH

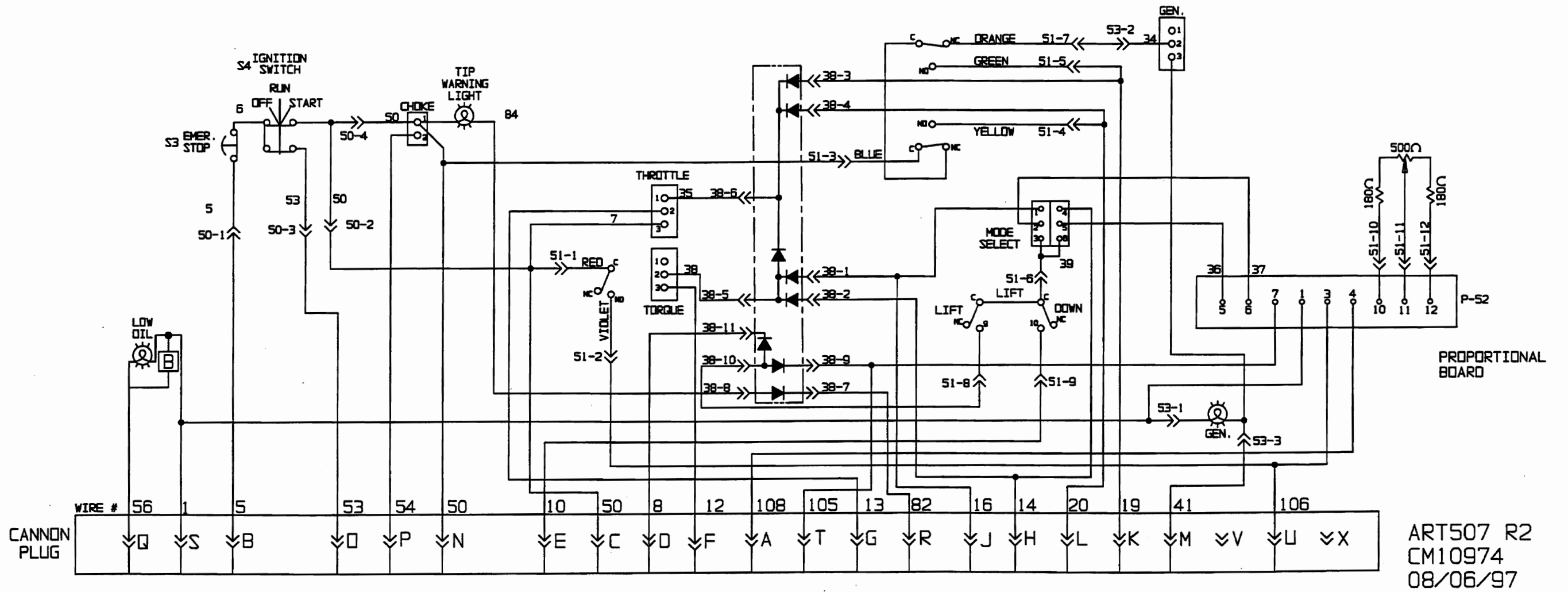
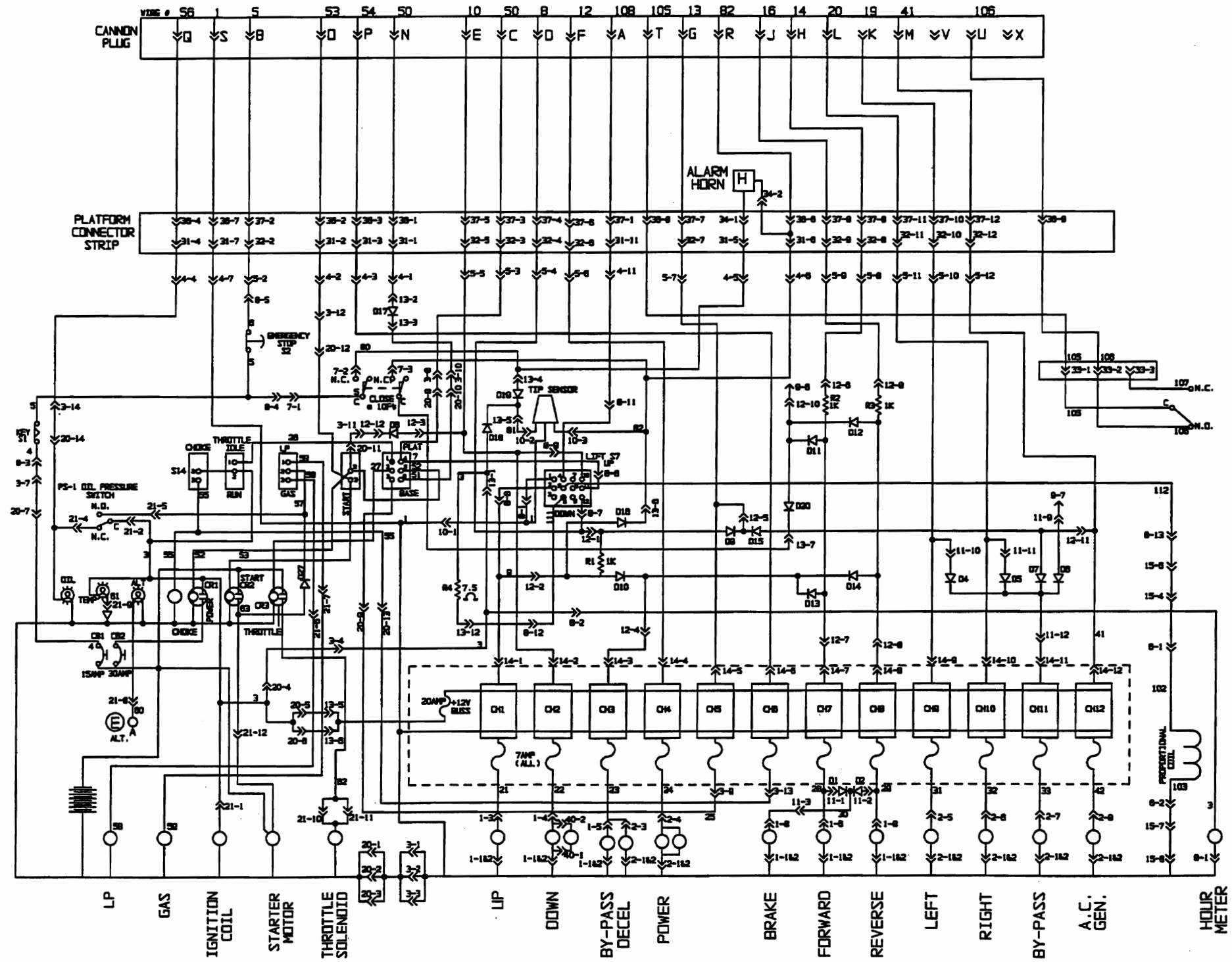


Figure 2H

DUAL FUEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT

FOR FIELD UNIT UPGRADED FROM TOGGLE BOX TO JOYSTICK
AFTER APRIL 1, 1996 WITH STANDARD ANTI-RESTART KEY SWITCH



ART507 R2
CM10974
08/06/97

Figure 2I

DUAL FUEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT

FOR PRODUCTION UNITS SERIAL #10700167 THROUGH #10700226

FOR PRODUCTION UNITS SERIAL #10800215 THROUGH #10800315

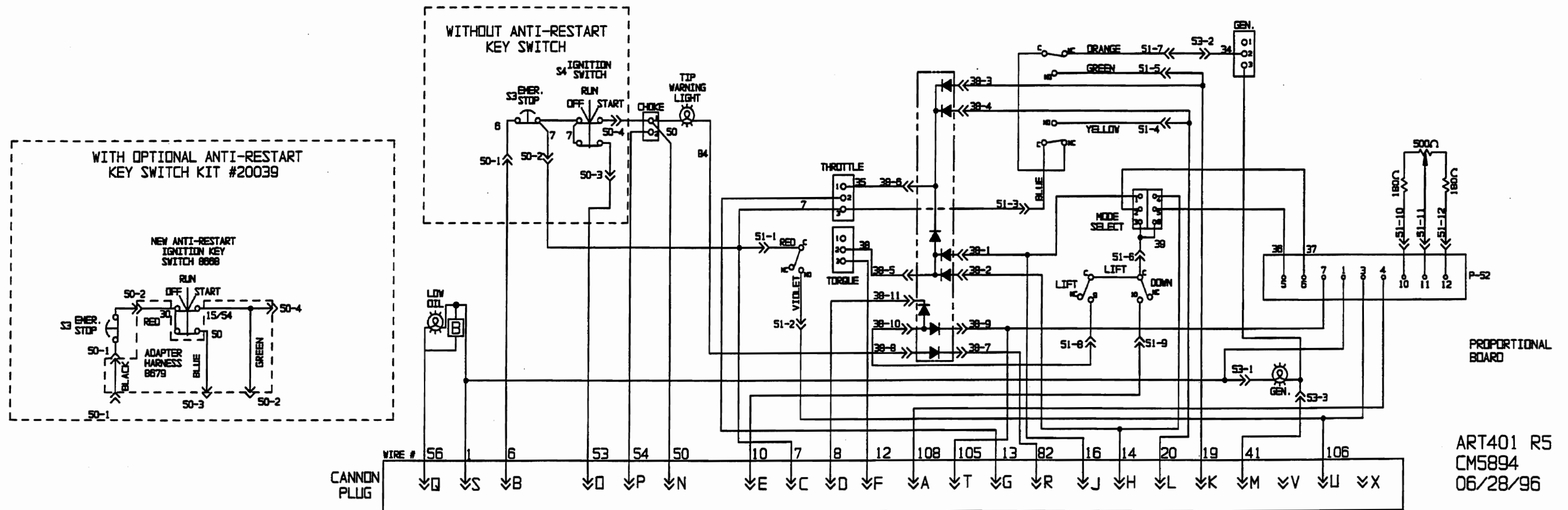
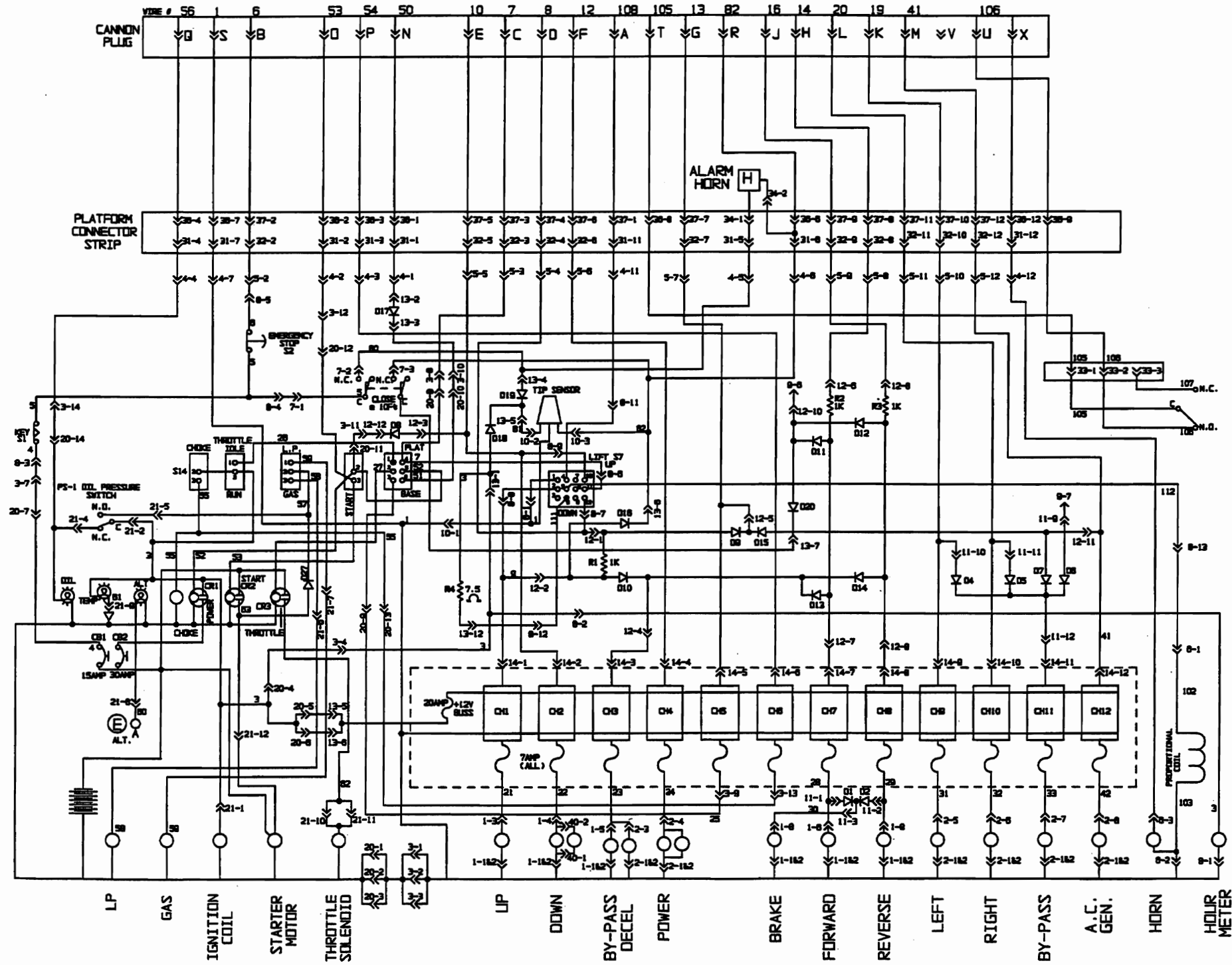


Figure 2J

DUAL FUEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT
FOR PRODUCTION UNITS SERIAL #10700167 THROUGH #10700226
FOR PRODUCTION UNITS SERIAL #10800215 THROUGH #10800315



ART401 R5
CM5894
06/28/96

Figure 2K

DUAL FUEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT

FOR PRODUCTION UNITS SERIAL #10800316 THROUGH #10800742

FOR PRODUCTION UNITS SERIAL #10700227 THROUGH #10700449

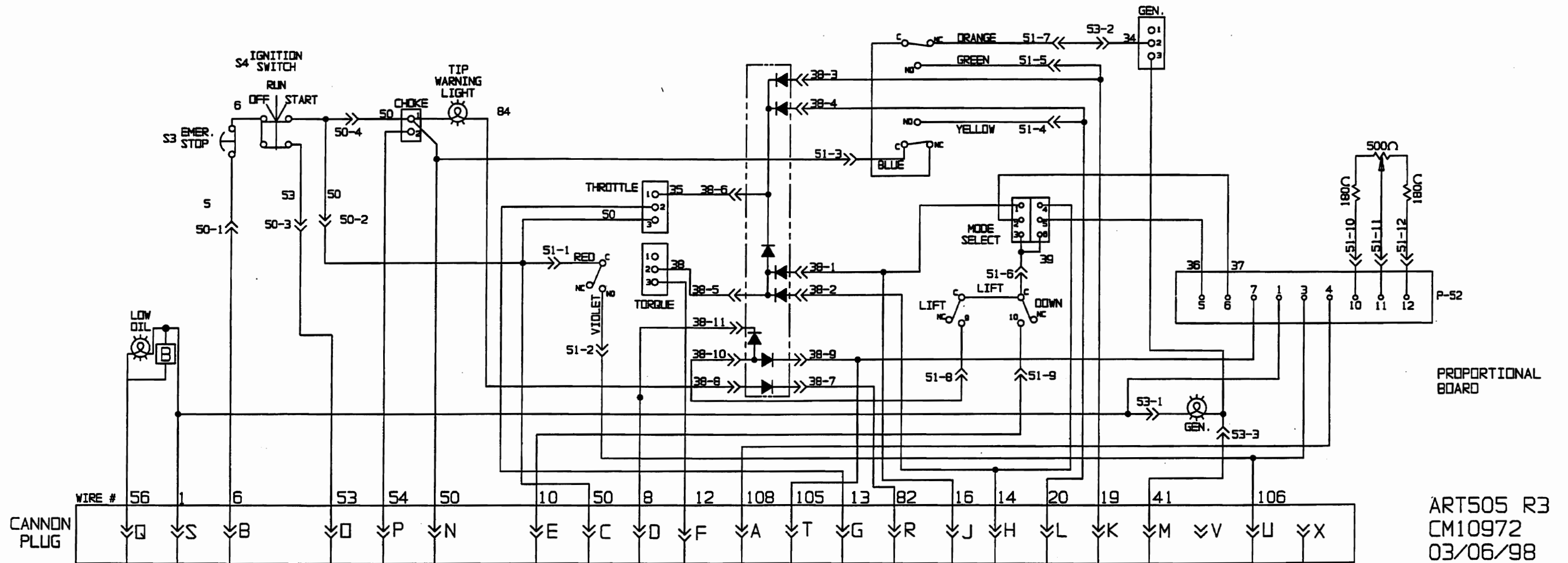


Figure 2M

DUAL FUEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT

FOR PRODUCTION UNITS SERIAL #10800743 THROUGH PRESENT

FOR PRODUCTION UNITS SERIAL #10700450 THROUGH PRESENT

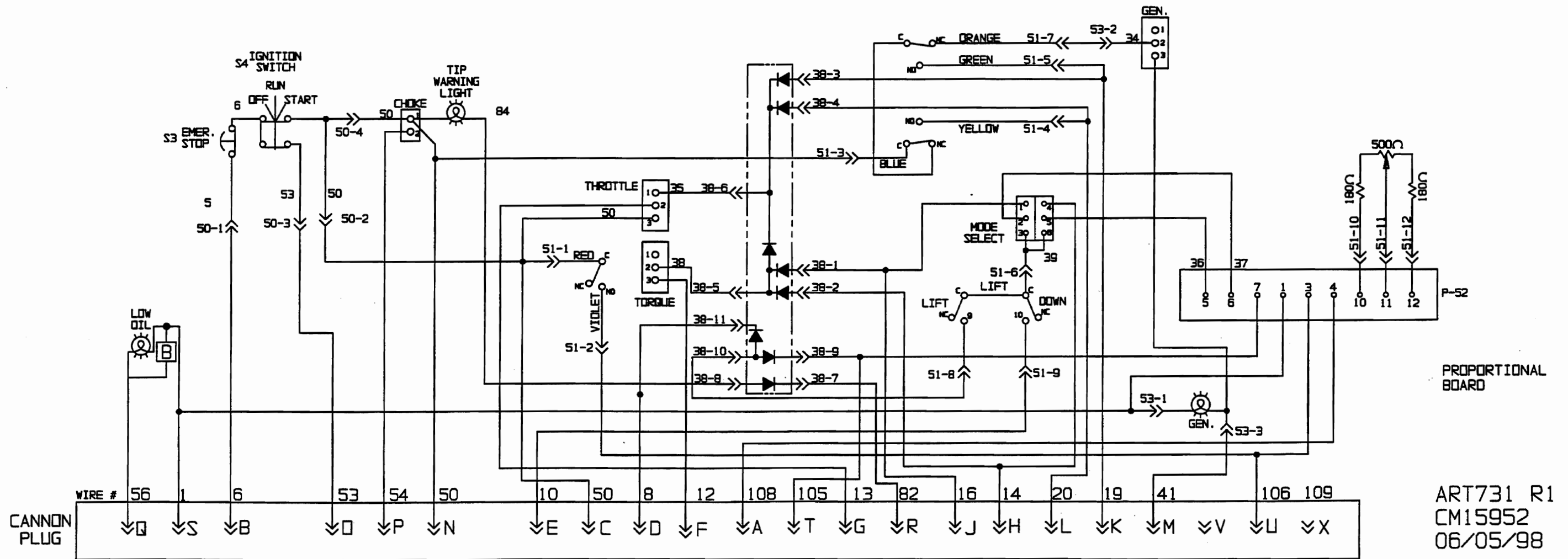
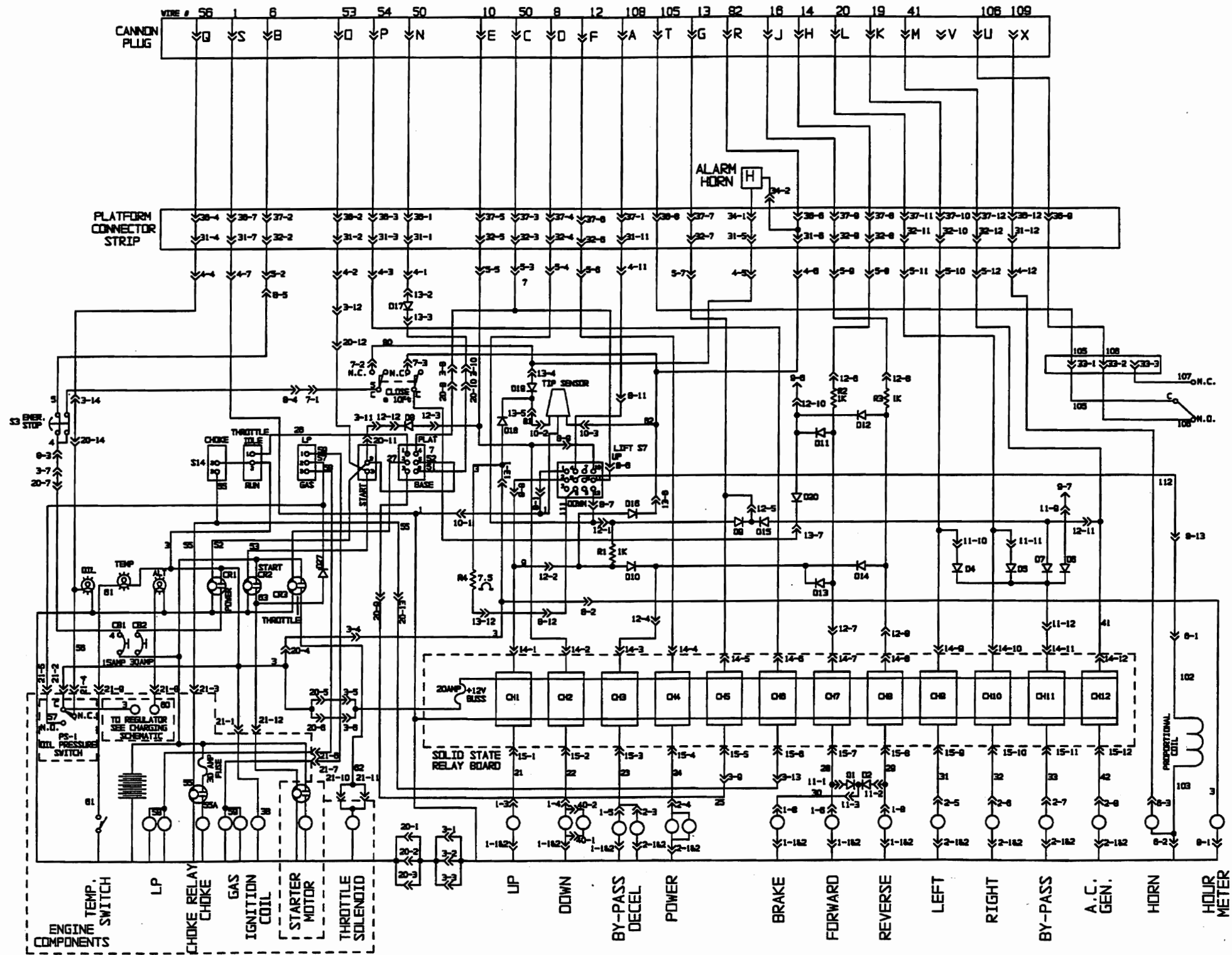


Figure 2N

DUAL FUEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT
FOR PRODUCTION UNITS SERIAL #10800743 THROUGH PRESENT
FOR PRODUCTION UNITS SERIAL #10700450 THROUGH PRESENT



ART731-R1
CM15952
06/05/98

Figure 20

DIESEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT

FOR FIELD UNIT UPGRADED FROM TOGGLE BOX TO JOYSTICK
AFTER APRIL 1, 1996 WITH STANDARD ANTI-RESTAT KEY SWITCH

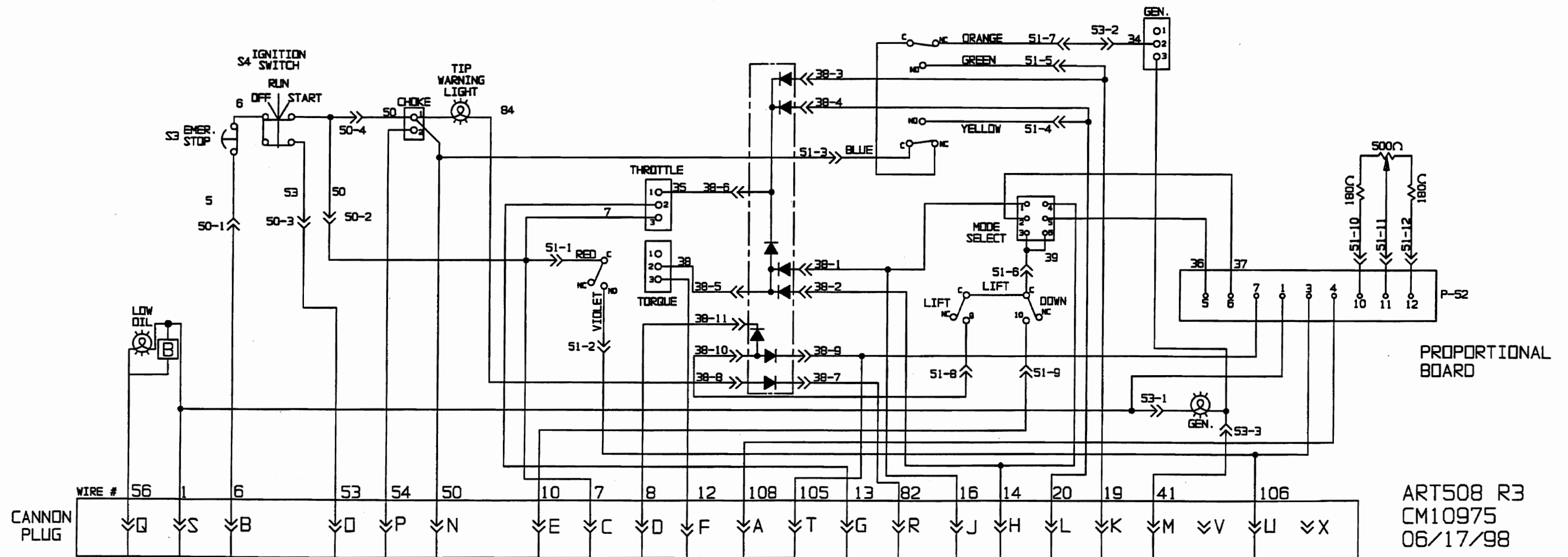
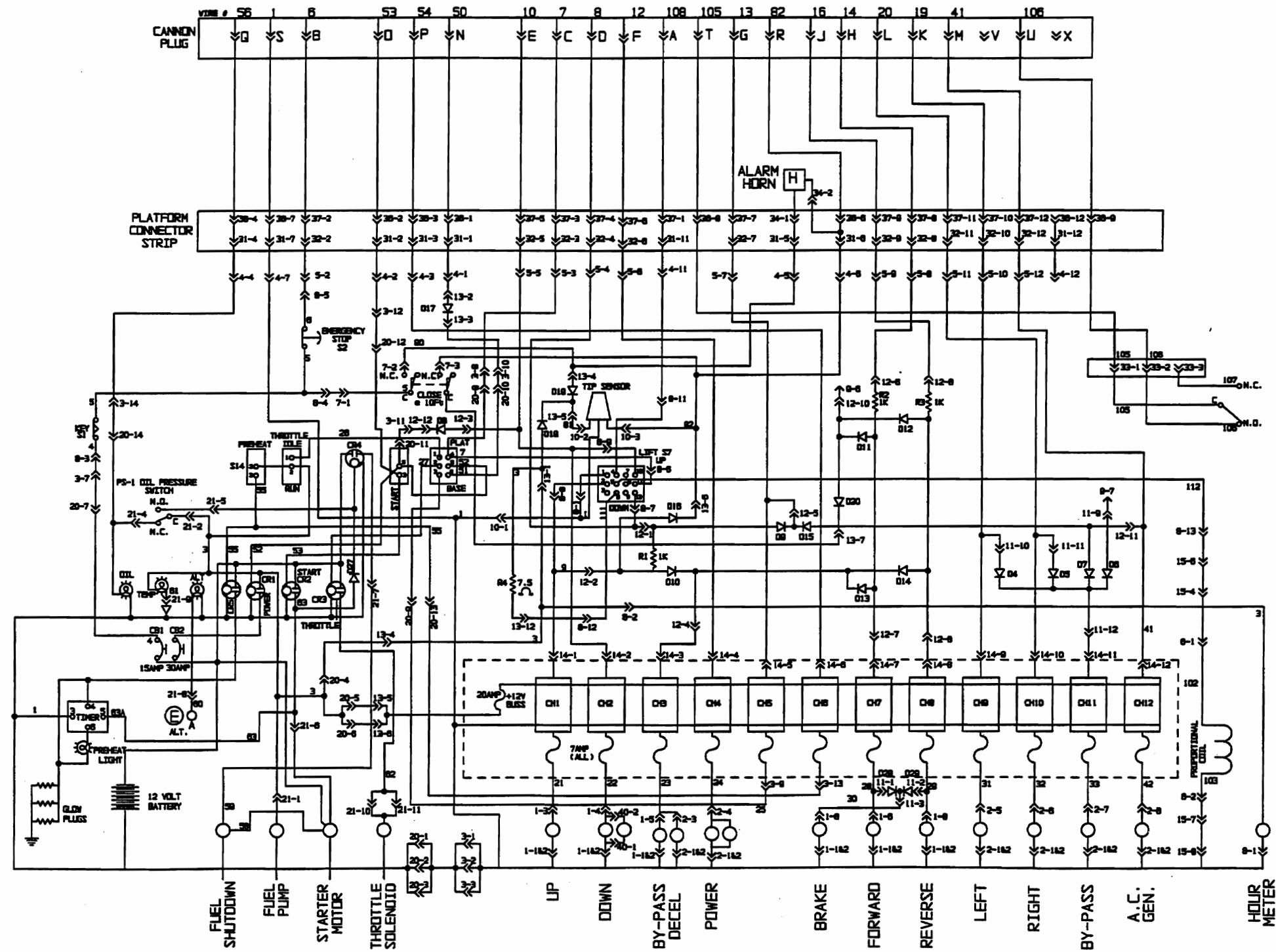


Figure 2P

DIESEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT

FOR FIELD UNIT UPGRADED FROM TOGGLE BOX TO JOYSTICK
AFTER APRIL 1, 1996 WITH STANDARD ANTI-RESTAT KEY SWITCH



ART508 R3
CM10975
06/17/98



Figure 2Q

DIESEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT
FOR PRODUCTION UNITS SERIAL #10800222 THROUGH #10800249
#10700182

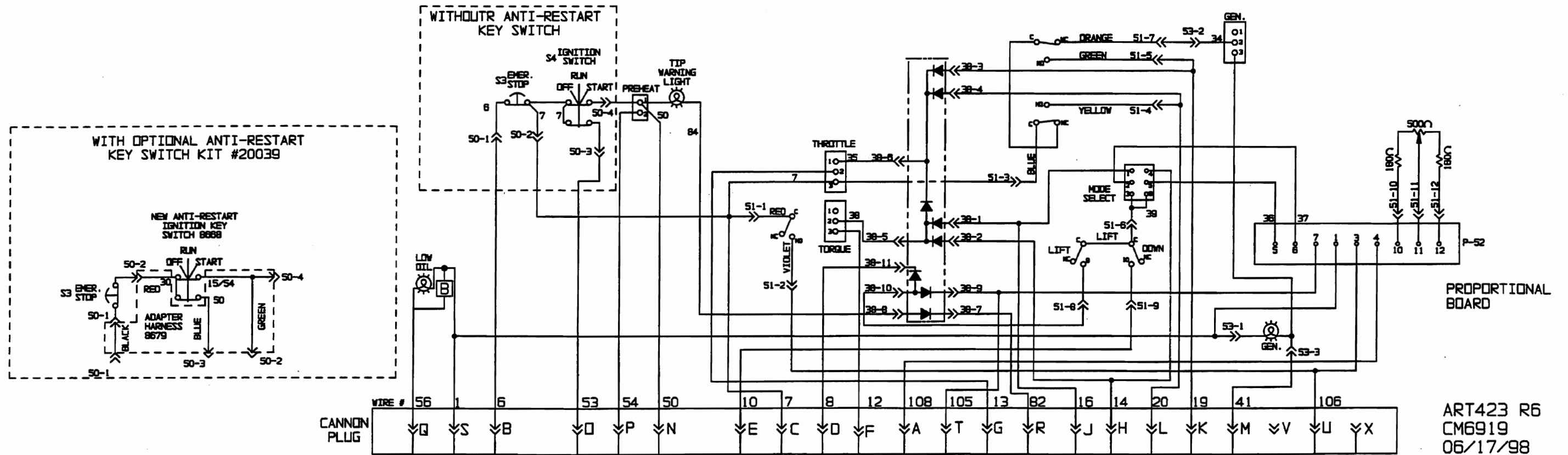
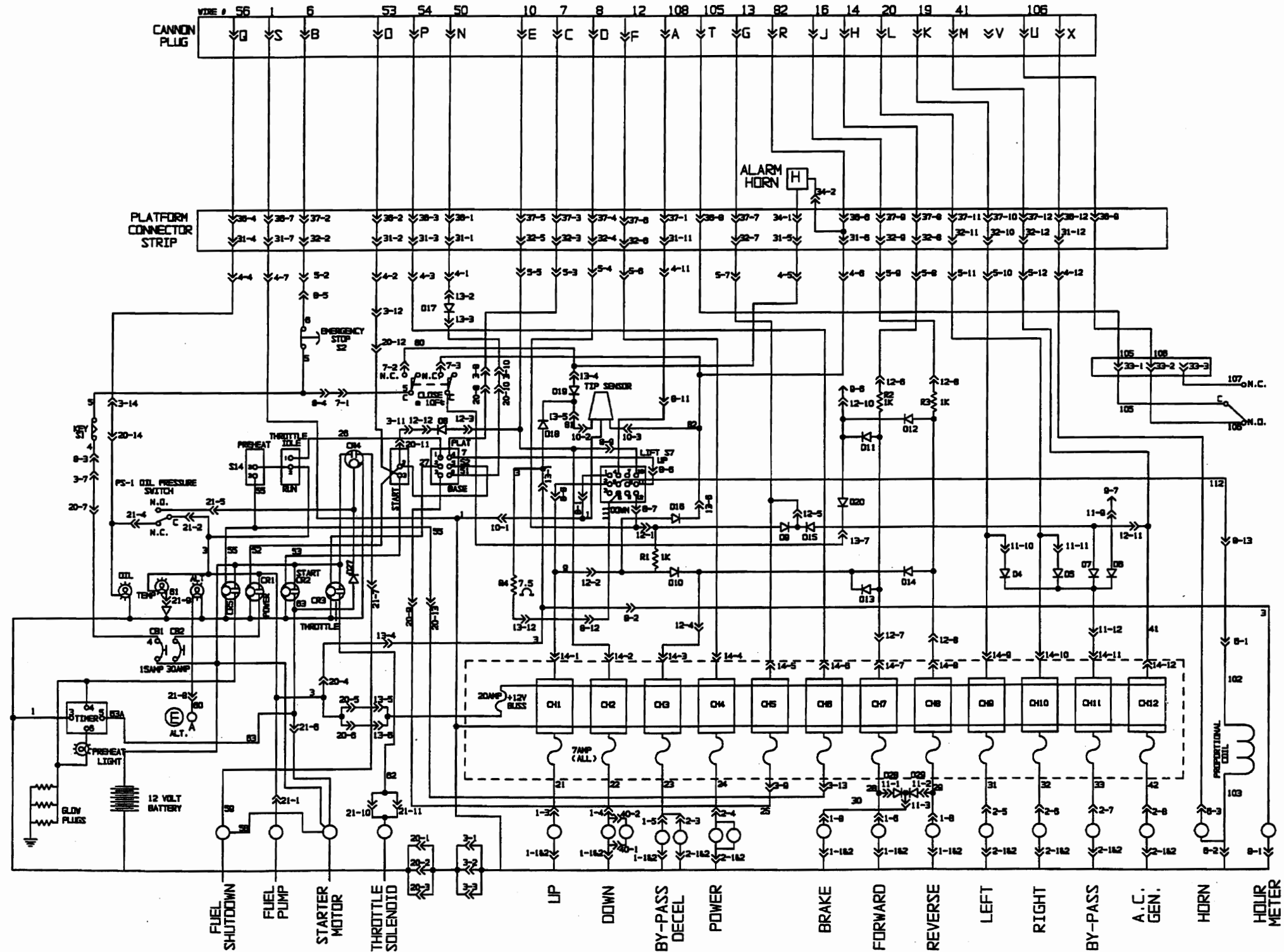


Figure 2R

DIESEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT
FOR PRODUCTION UNITS SERIAL #10800222 THROUGH #10800249
#10700182



ART423 R6
CM6919
06/17/98

Figure 2S

DIESEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT

FOR PRODUCTION UNITS SERIAL #10800319 THROUGH PRESENT

FOR PRODUCTION UNITS SERIAL #10700229 THROUGH PRESENT

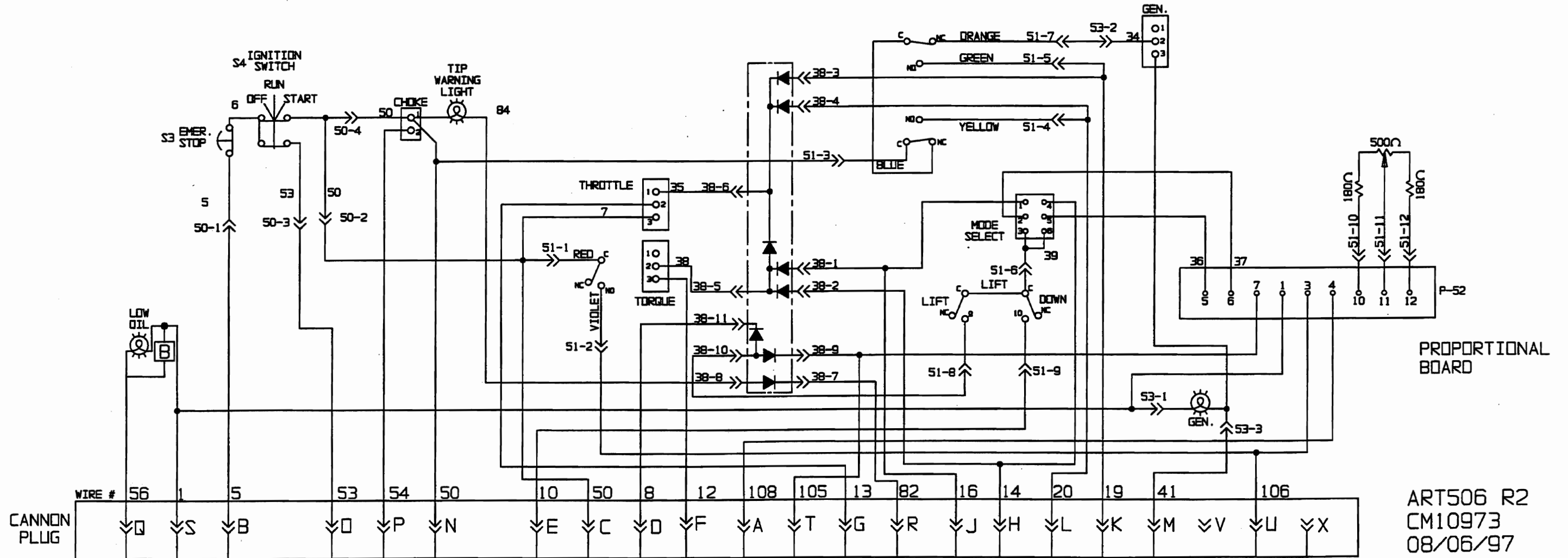
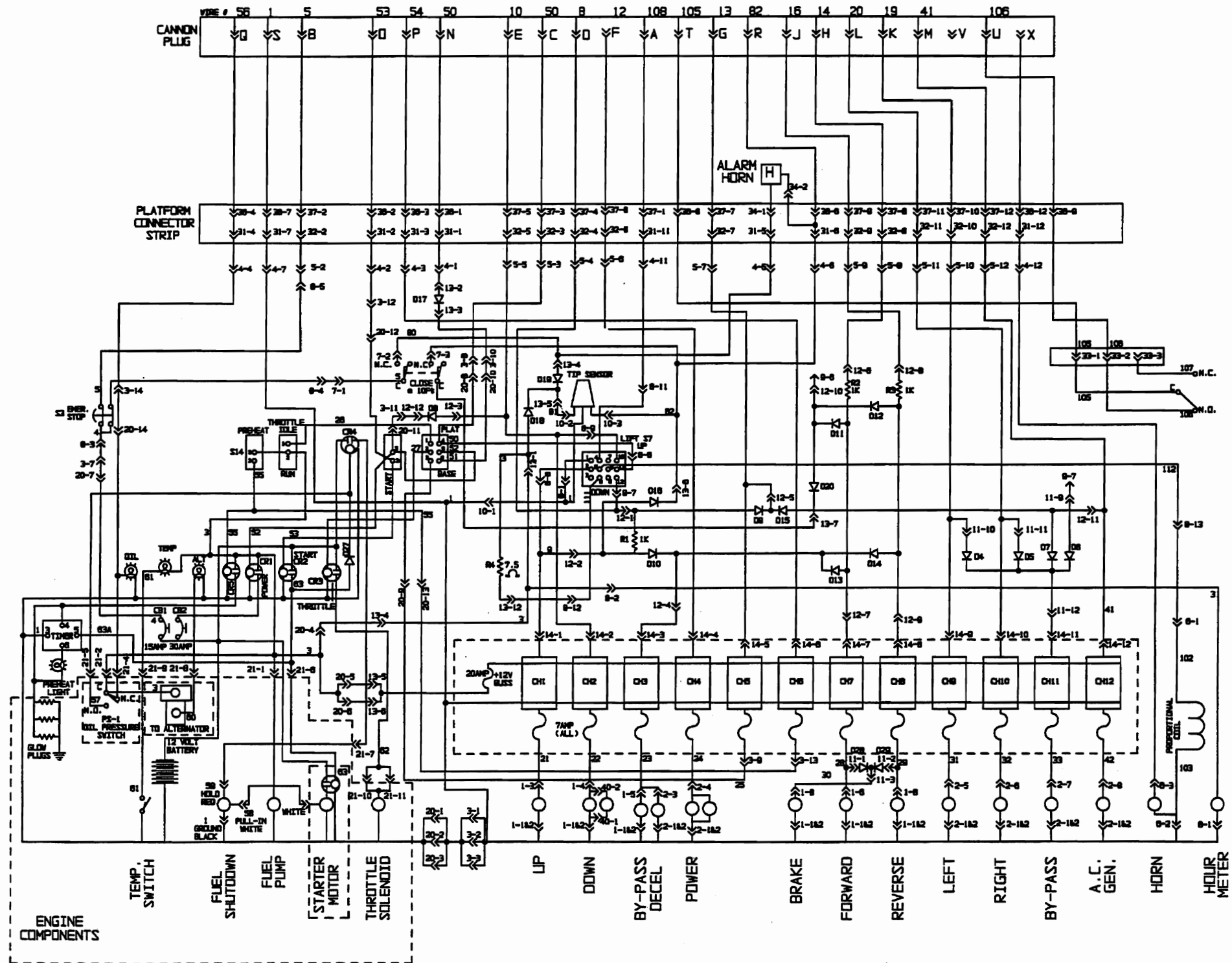




Figure 2T

DIESEL ELECTRICAL WIRING DIAGRAM FOR JOYSTICK

QUADREX MODELS 25RT & 33RT
FOR PRODUCTION UNITS SERIAL #10800319 THROUGH PRESENT
FOR PRODUCTION UNITS SERIAL #10700229 THROUGH PRESENT



ART506 R2
CM10973
08/06/97

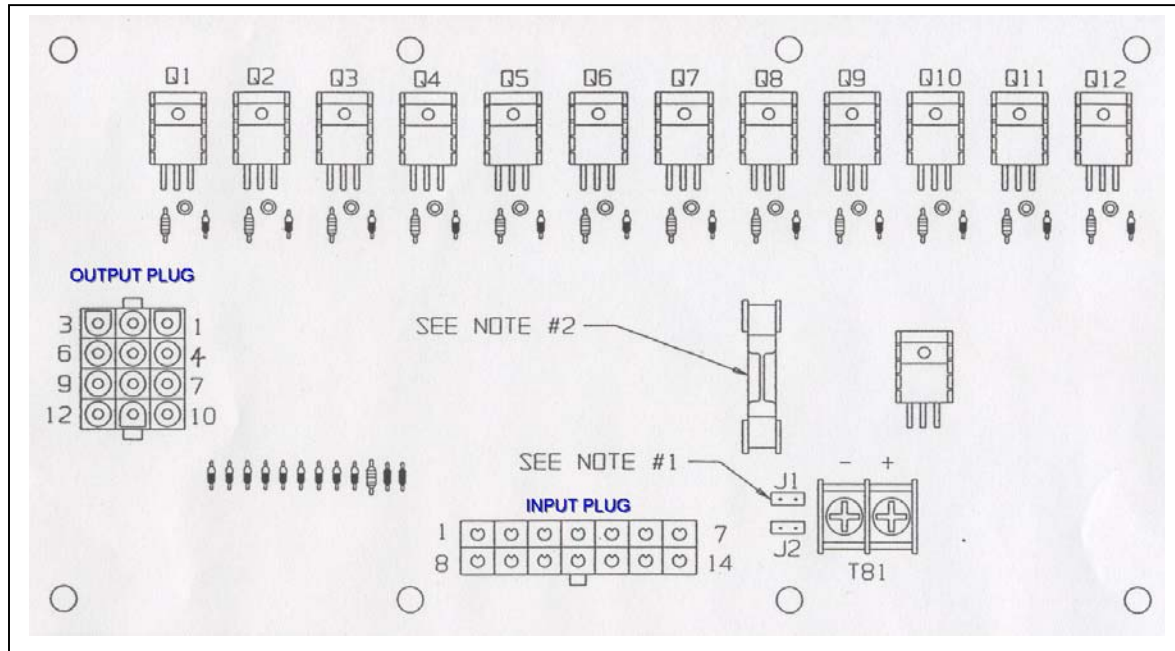


Aerial Work Platforms

9021 Relay Board (new style)

When replacing (p/n 9021) circuit board on **Quadrex 25/33 RT** series or **3072** series or **2558DF** (Kawasaki eng), it will be necessary to pull jumper J1 (note 1 on diagram). Jumper J1 programs the throttle and choke control circuits. Leave jumper in place for **2558D** w/Kohler engine only.

NOTE: J1 is very small, use needle-nosed pliers to pull it from the board.

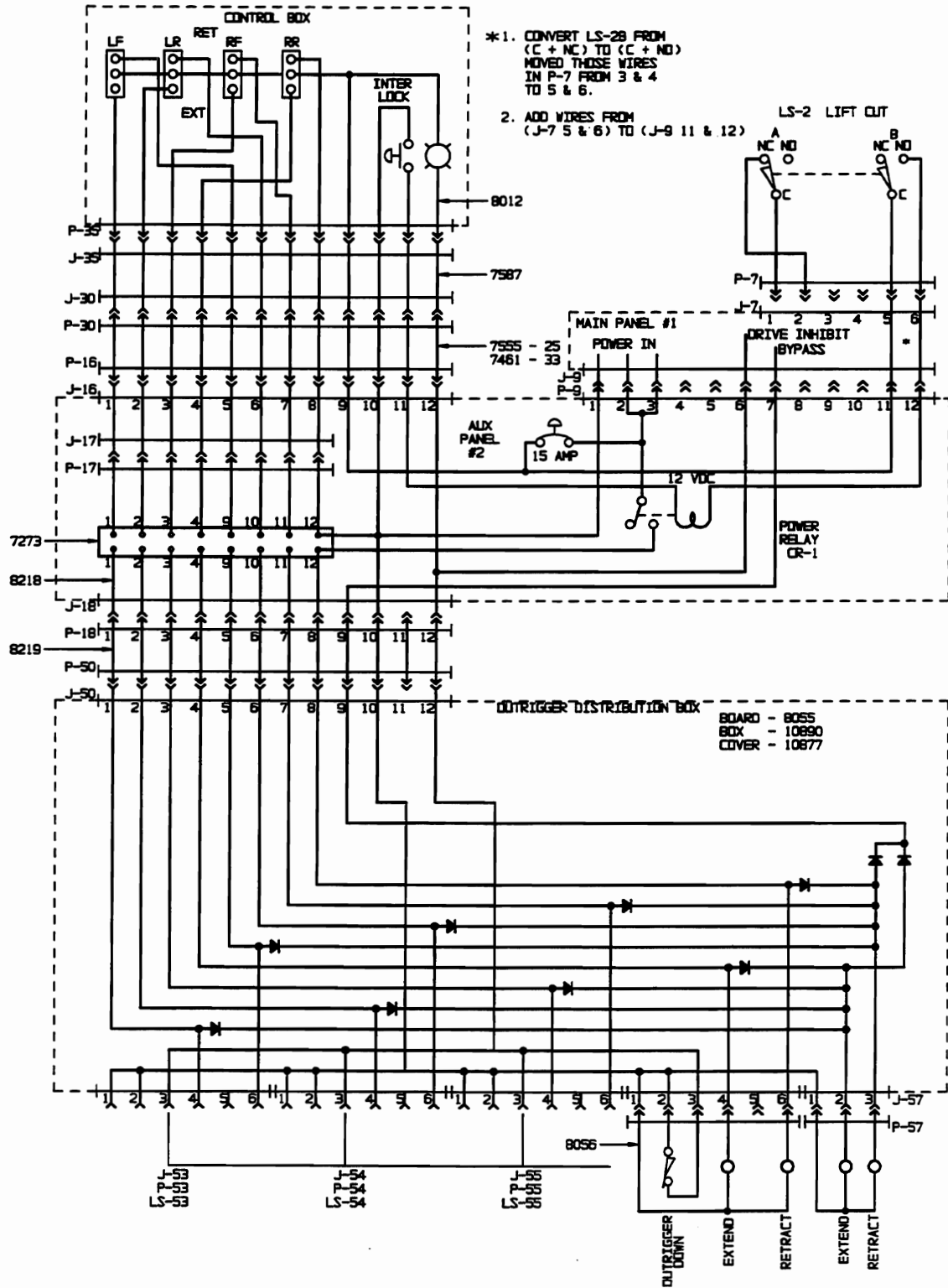


For diagnostic purposes, the chart below lists the input and output terminals, and LED for the respective function. Match the column on the chart with your specific model.

INPUT	LED	OUTPUT	FUNCTION 25, 33 RT	FUNCTION 25,33 SRT	FUNCTION 3072	FUNCTION 2558D	FUNCTION 2558DF
1	1	1	Up	Not used	Up to 9200486 - Start From 9200487- Not used	Not used	Not used
2	2	2	Down	Slow Speed	Slow	Slow	Slow
3	3	3	Bypass – Decel	Brake - Decel	Decel – Pri. Dump	Brake – Decel	Brake – Decel
4	4	4	Torque	Up	Up	Up	Up
5	5	5	Throttle	Not used	Throttle	Not used	Throttle
6	6	6	Choke Pre-heat (diesel)	Throttle	Choke Pre-heat (diesel)	Throttle	Choke
7	7	7	Forward	Right	Right	Right	Right
8	8	8	Reverse	Left	Left	Left	Left
9	9	9	Steer Left	Sec. Dump	Sec. Dump	Sec. Dump	Sec. Dump
10	10	10	Steer Right	Reverse	Reverse	Reverse	Reverse
11	11	11	Steer Bypass	Forward	Forward	Forward	Forward
12	12	12	A.C. Generator (opt)	Torque	Torque	Torque	Torque



Figure 2U - Outrigger Electrical Schematic



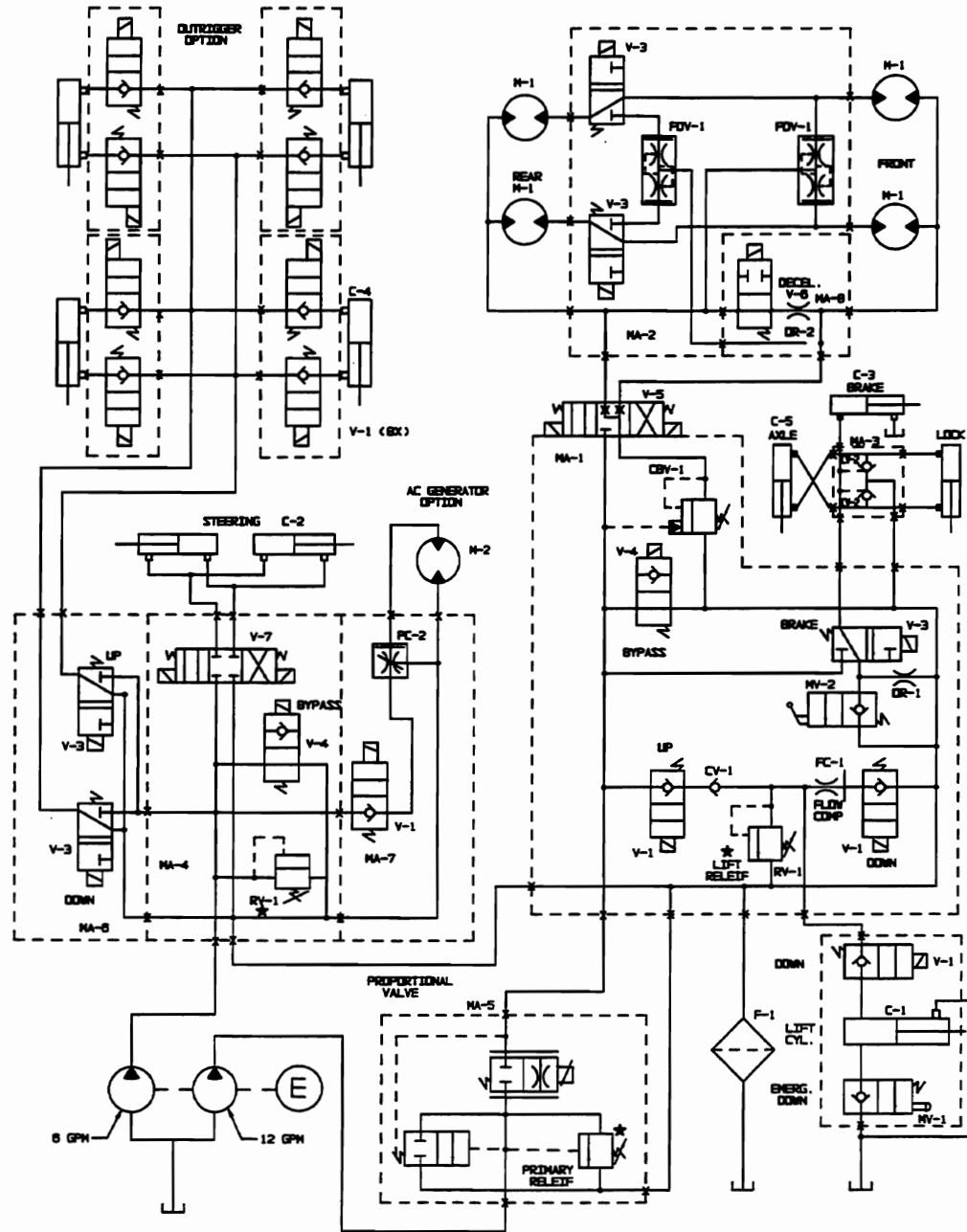
ART396 R2
 BM5802
 07/27/97

**Figure 2Z - Hydraulic Schematic**

ITEM	PART NO.	QTY.	DESCRIPTION
C1	10925	1	CYLINDER - LIFT QUAD W/BEARING
	7576	SERV	REPAIR KIT, LIFT CYLINDER
C2	10329	2	ATV STEERING CYLINDER ASSY.
	5947	SERV	SEAL KIT FOR 5677 & 5678
C4	2483	1	BRAKE CYLINDER ASSY.
	5947	SERV	SEAL KIT FOR 5677 & 5678
C5	7147	1	CYLINDER - AXLE LOCKING
	7574	SERV	REPAIR KIT - AXLE CYLINDER
CBV1	7311	1	COUNTER BALANCE VALVE
CV1	5434	1	VALVE, CHECK-IN LINE
	5475	SERV	SEAL KIT - 2 WAY VALVE
CV2	7445	2	VALVE-PILOT OPER. BALL CHECK
FC1	10915	1	PLUG
FDV1	7303	2	FLOW DIVIDER 6-3
F1	7310	1	FILTER CANISTER - 10 MICRON
M1	7300P	2	HYD. WHEEL MOTOR - PAINTED
M2	8701	1	HYD. MOTOR W/CASE DRAIN
MA1	10496	1	MANIFOLD-DIRECT LIFT-LOWER
MA2	10360	1	MANIFOLD-FLOW DIVIDE COMBINE
MA3	10278	1	MANIFOLD- AXLE CONTROL
MA4	10201	1	MANIFOLD-STEERING & OPTIONS
MA5	7298	1	MAIN TUBE BASE - ATV.
MA6	10200	1	MANIFOLD-OUTRIGGER OPTION
MA7	10536	1	MANIFOLD-AC. GEN. OPTION
MA8	10361	1	MANIFOLD-DECEL
MV1	5435	1	VALVE-MANUAL PULL
	5475	SERV	SEAL KIT - 2 WAY VALVE
MV2	7491	1	VALVE-MANUAL RELEASE
DR1			
DR2	10521	1	METERING PLUG
PC2	7560	1	PRIORITY FLOW CONTROL VALVE
RV1	6316	2	ADJ RELIEF VALVE
V1	6973	12	VALVE N.C. POPPET 2 WAY
	5475	SERV	SEAL KIT - 2 WAY VALVE
V3	6976	5	VALVE 3 WAY 2 POSITION
	5476	SERV	SEAL KIT
V4	6974	2	VALVE N.O. POPPET 2/WAY
	5475	SERV	SEAL KIT - 2 WAY VALVE
V5	7288	1	4 WAY VALVE, DIRECTIONAL
V6	5475	SERV	SEAL KIT - 2 WAY VALVE
V6	6975	1	VALVE N.O. SPOOL 2 WAY
V7	7977	1	VALVE - 4 WAY 3 POS. CLSD CNTR
	6161	SERV	SPRING & O-RING KIT

ART113 R2
 04456
 4/7/97

Figure 2Z - Hydraulic Schematic

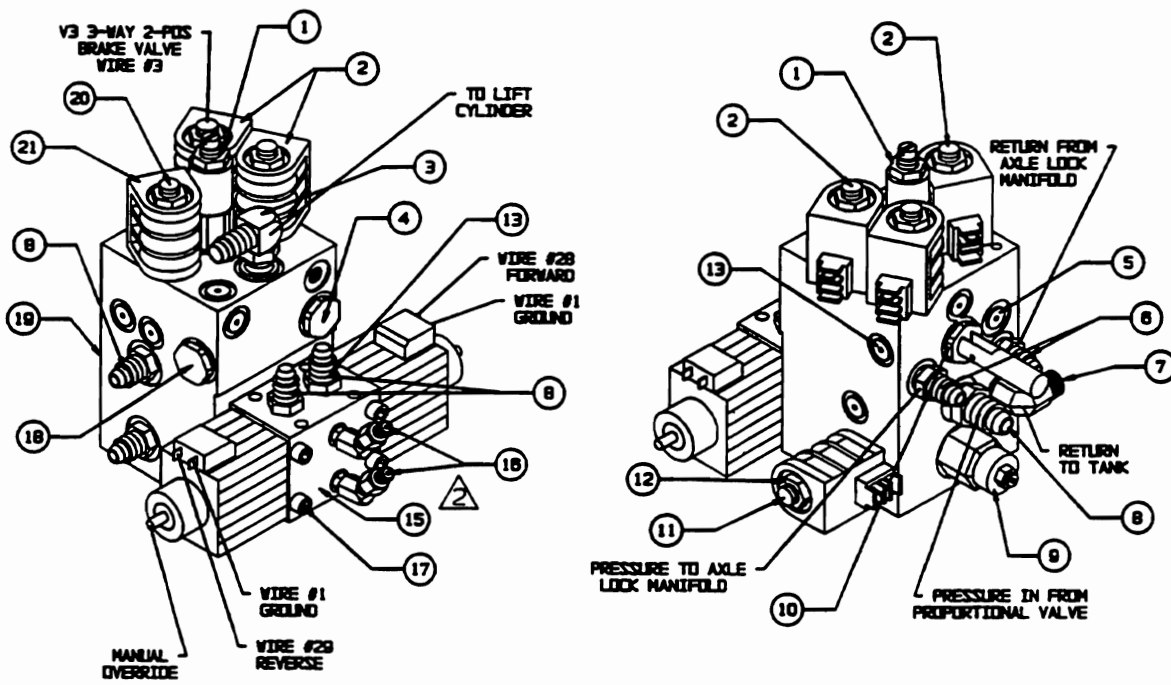


ART113 R2
 09480
 4/1/01

PRESSURE SETTINGS	33'	25'
* PRIMARY LIFT STEERING	3000 2250 1500*	3000 2000 1500* 1900 W/ GEN OPTION



Figure 7A - Lift / Drive Manifold Assembly



ART-343R1
OMEGA
SCALE 1/3

Figure 7A - Lift / Drive Manifold Assembly

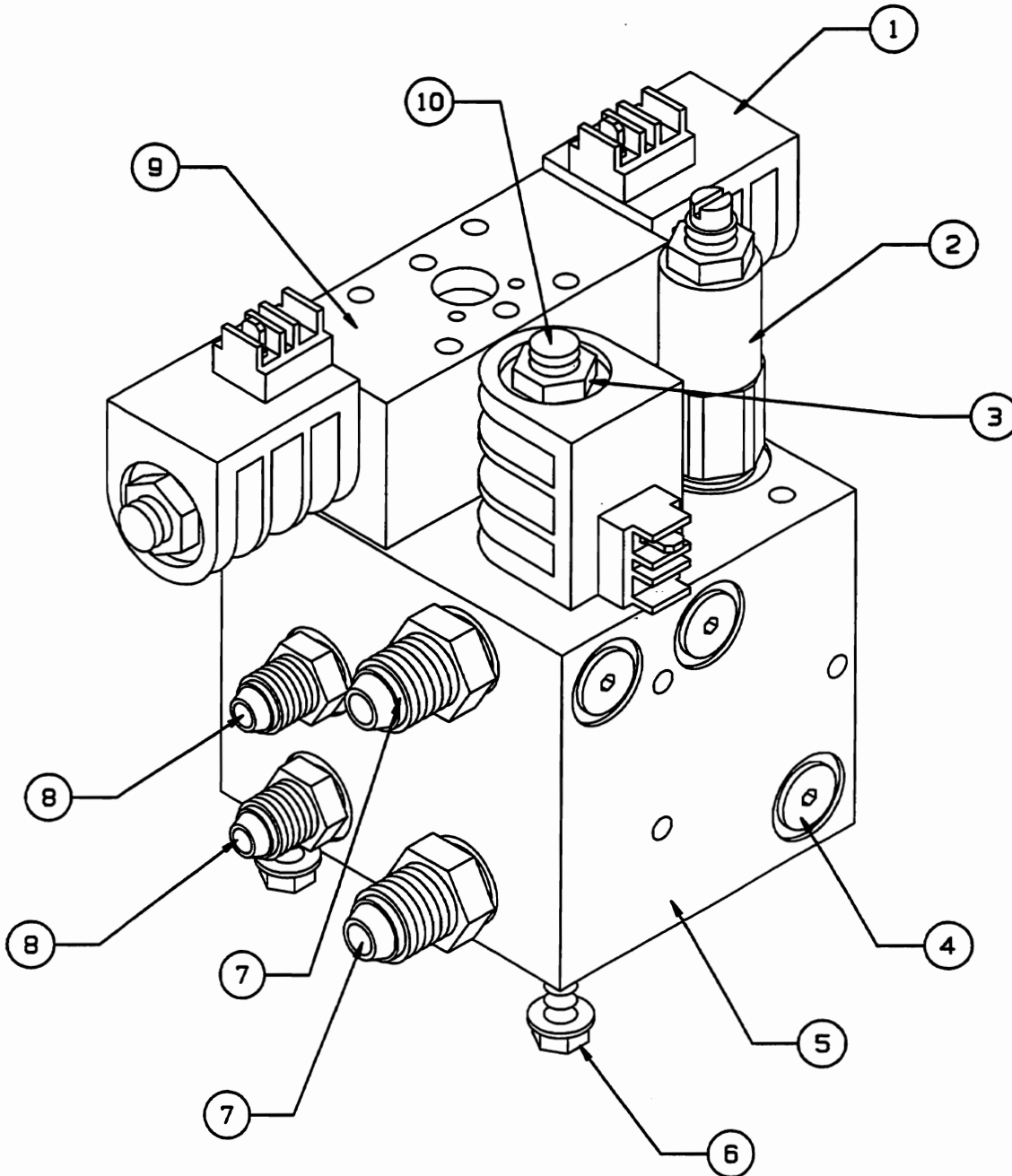
ITEM	PART NO.	QTY.	DESCRIPTION
1	6316	1	ADJ. RELIEF VALVE
2	6973	2	VALVE N.C. POPPET 2 WAY
3	HDW7385	1	PFELB90 MD.50JICMD.50DRNGSZN
4	5434	1	VALVE, CHECK - IN LINE
5	10708	1	METERING PLUG - ELECTRIC
	7484	1	PLUG - O RING SOCKET HEAD
6	HDW7438	2	PFADAPT MD.37JIC MD.56DRNGSYN
7	HDW7524	1	PFELD90 MD.75SAE MD.50NPT BNN
8	HDW7390	1	PFUNION MD.50JIC MD.50DRNGSZN
9	7311	1	COUNTER BALANCE VALVE
10	7491	1	VALVE MANUAL RELEASE
11	6974	1	VALVE NO POPPET 2/W
12	6983	1	VALVE NUT
13	HDW7314	10	PFPLUG M 43DRNG SYN
15	7288	1	4 WAY VALVE, DIRECTIONAL
	7568	SERV	COIL, WATERMAN 4 WAY
16	8213	2	FITTING, QUICK DISCONNECT MALE
	8214	2	FITTING ADAPTER
	9006	OPTL	45° FITTING (GENERATOR OPTION)
19	10496	1	MANIFOLD - DIRECT/LIFT LOWER
18	10915	1	PLUG
19	10496	1	MANIFOLD - DIRECT/LIFT LOWER
20	6976	1	VALVE 3 WAY 2 POS.
21	6870	4	12V COIL

ART-243R1
BM4834
SCALE 1/3



Figure 7B - Steering Manifold Assembly

STEERING MANIFOLD - QUADREX



ART-313 R2
BWA632

Figure 7B - Steering Manifold Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	6870	2	COIL 12V 1 SPADE ASY. W/DIODE
2	6316	1	ADJ RELIEF VALVE
3	6983	3	VALVE NUT
4	7314	6	PFPLUG M 43ORNG
5	10201	1	MANIFOLD - STEERING & OPTIONS
6	5723	3	BTSTFHEX .250 200.75ZSTLY
7	7489	2	PFADAPT MD. 50JIC 37ORNGSZN
8	7438	2	PFADAPT MD. 37JIC 56ORNGSZN
9	7977	1	VALVE 4 WAY, 3 POS. CLOSED CNTR
	6161	SERV	SPRING AND O-RING KIT
10	6974	3	VALVE NO POPPET 2 WAY

ART-213 R2
04/82

Figure 7C - Flow / Divide Manifold Assembly

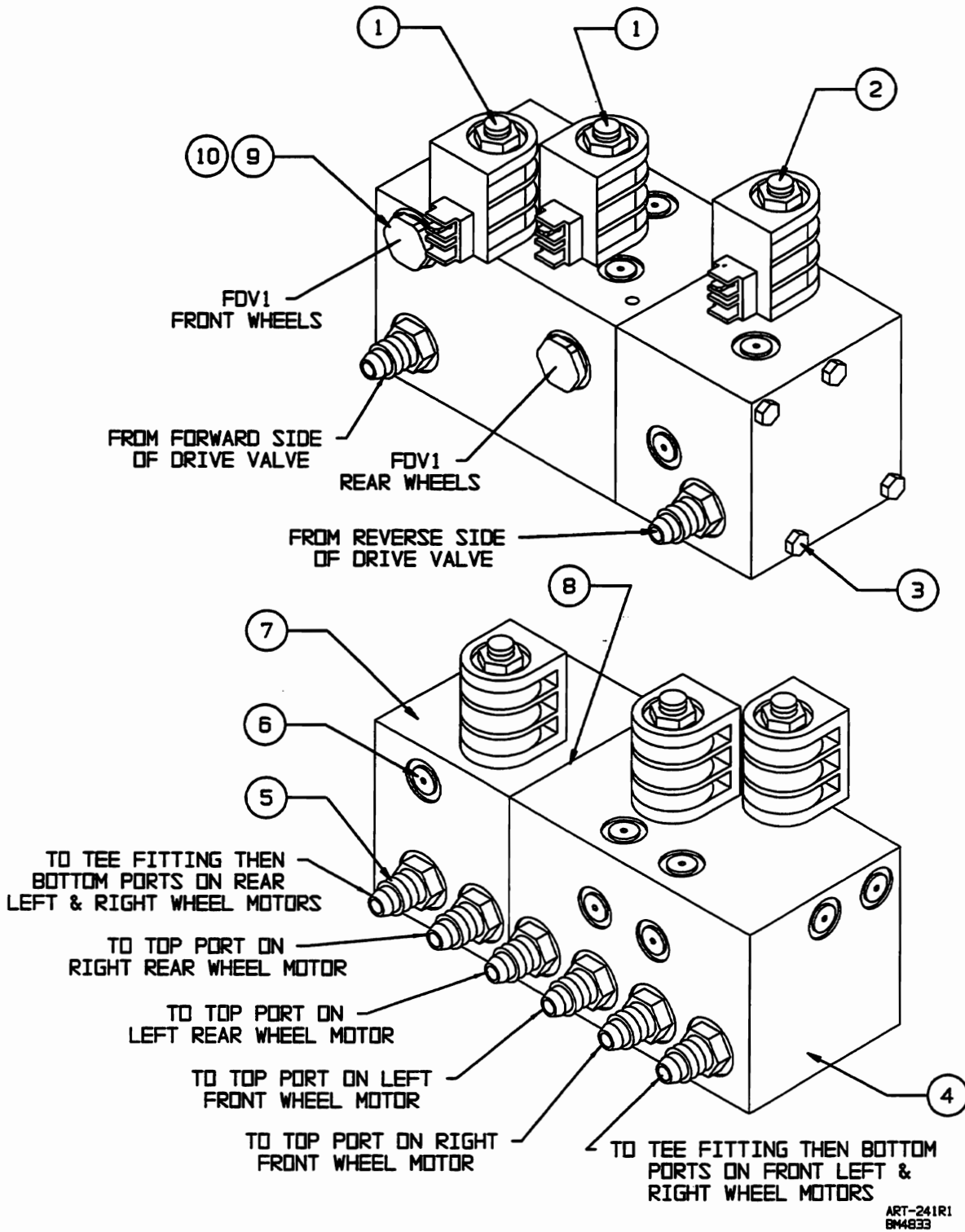


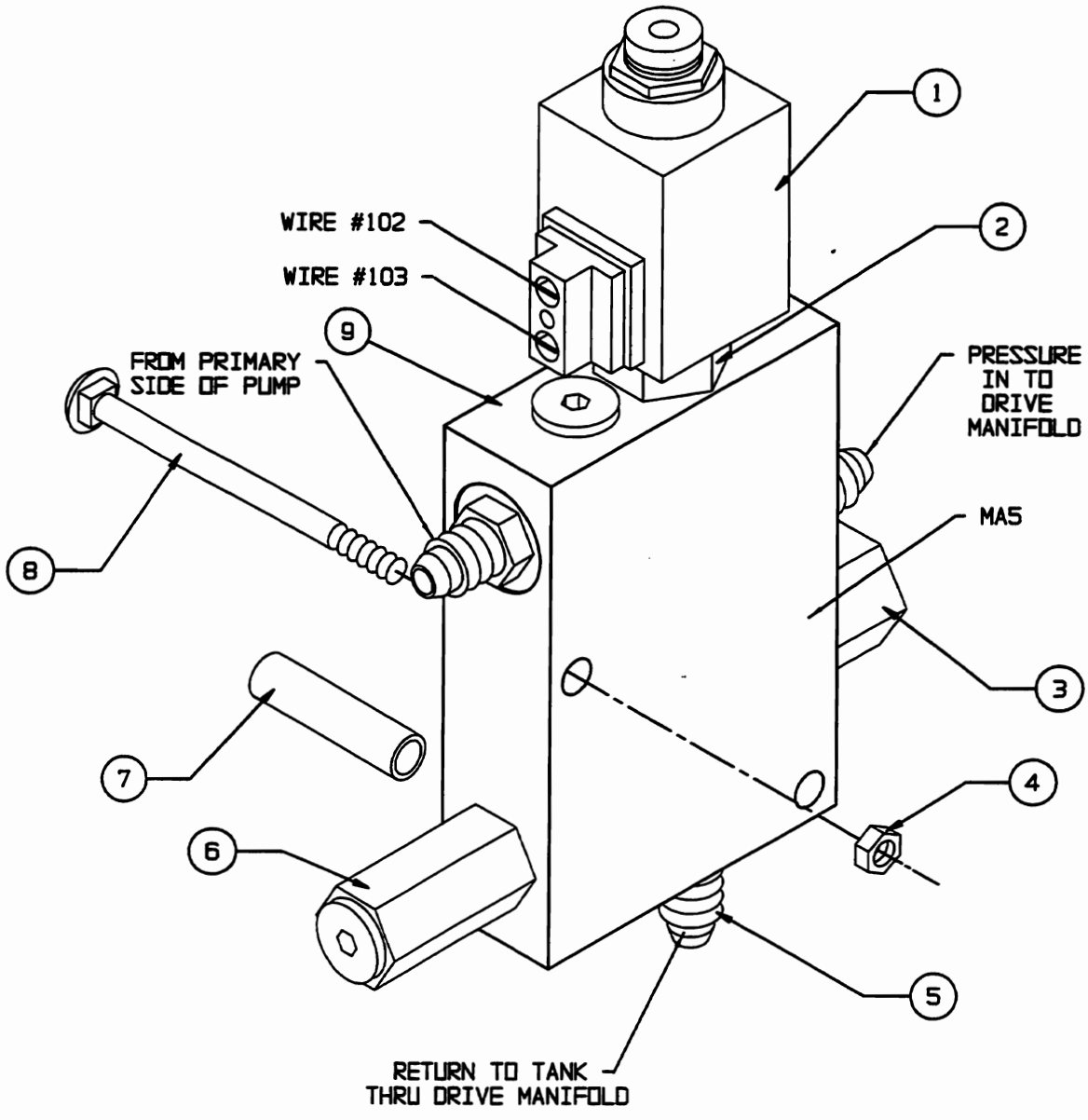
Figure 7C - Flow / Divide Manifold Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	6976	2	VALVE 3 WAY 2 POSITION
2	6975	1	VALVE N.O. SPOOL 2 WAY
	10521	1	METERING PLUG
3	HDW7359	4	BTCAPHEX .312 184.00Z 5N
4	10360	1	MANIFOLD-FLOW DIVIDE/COMBINE
5	HDW7390	8	PFUNION MD.50JICMD.50DRNGSZN
6	7314	14	PFPLUG M 43ORNG
7	10361	1	MANIFOLD - DECEL
8	7444	3	"O" RING - MANIFOLD
9	7303	2	FLOW DIVIDER 6-3
10	7567	SERV	SEAL KIT

ART-241R1
EN4833



Figure 7D - Proportional Valve Assembly



ART-244R1
BH14227
SCALE 1/1.5

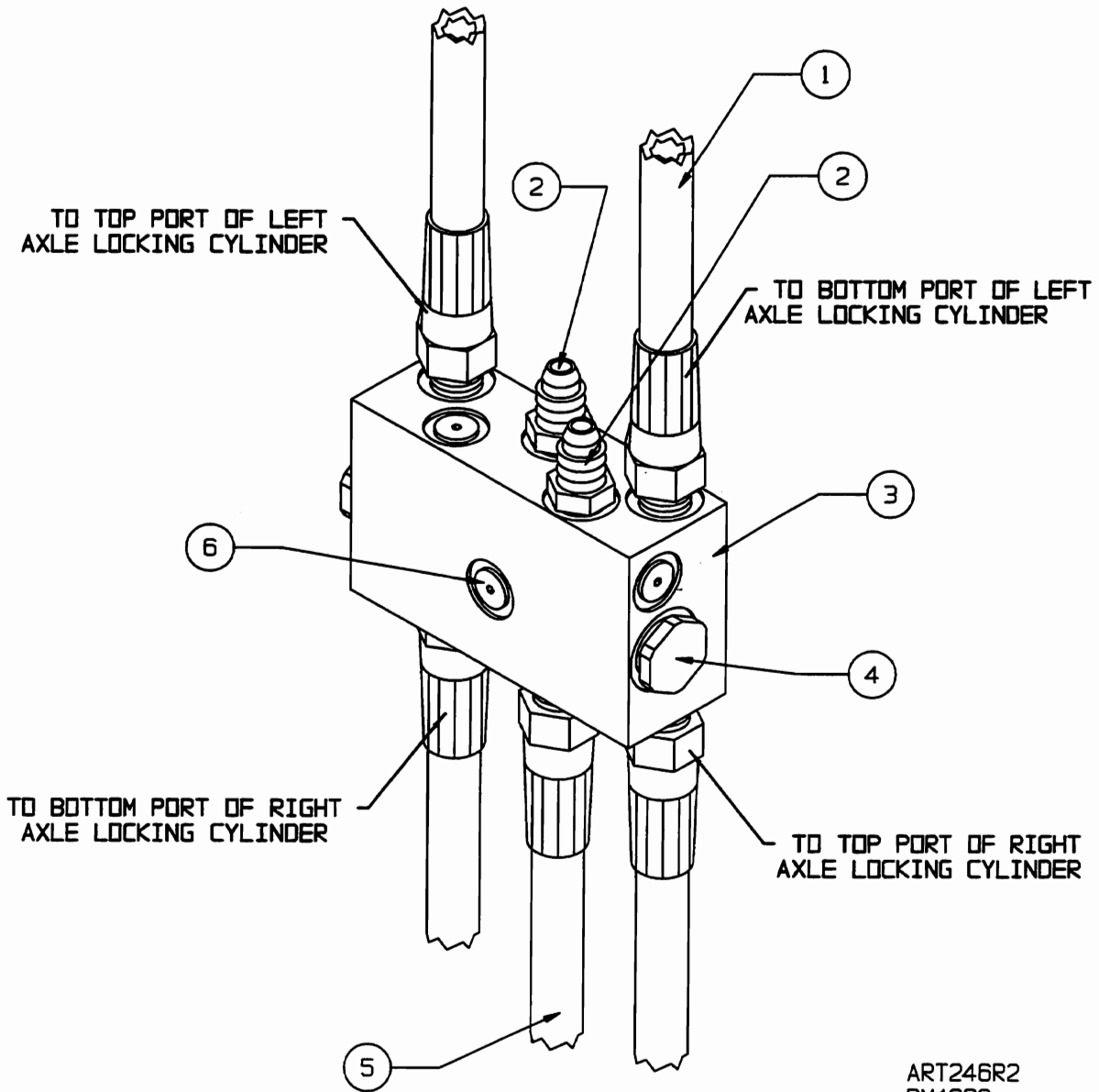
Figure 7D - Proportional Valve Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	7570	SERV	COIL, COMPACT PROPORTIONAL
2	8786	SERV	CARTRIDGE WITH/COIL
3	9015	SERV	DIFFERENTIAL SENSING
4	HDW5005	2	NTHEKEPO.312 18Z 5N
5	HDW7390	3	PFLUNION MO.50JIC MO.50ORNGSZN
6	9016	1	RELIEF VALVE
7	4551	2	SPACER
8	HDW7407	2	BTCAPRNDSQ .312 184.50Z 2N
9	7289	1	PROPORTIONAL VALVE MAIN

ART-244R1
 BM14227
 SCALE 1/1.5



Figure 7E - Axle Cylinder Manifold



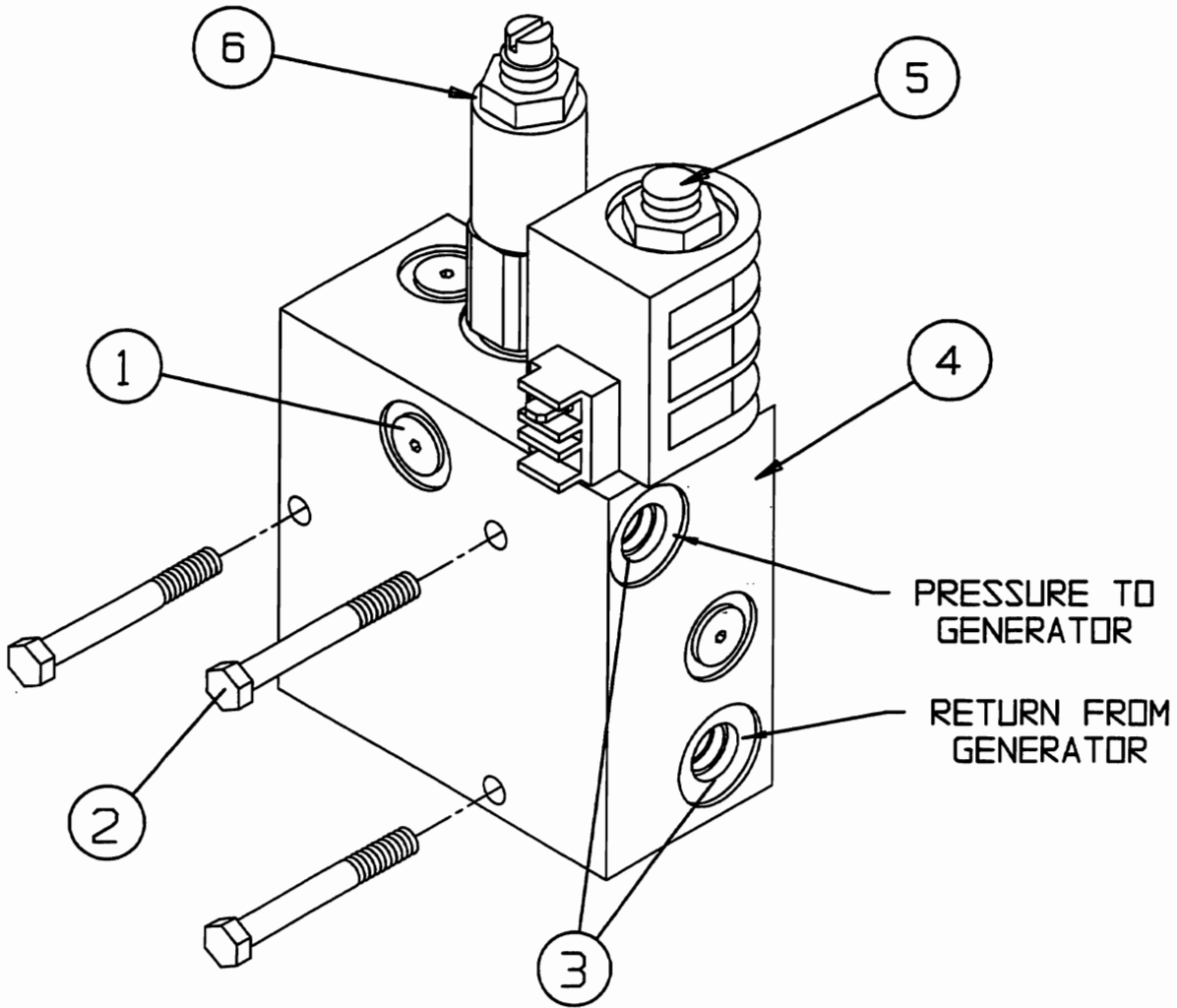
**Figure 7E - Axle Cylinder Manifold**

ITEM	PART NO.	QTY.	DESCRIPTION
1	7381	4	HOSE AXLE CYLINDER
2	7438	2	PFADAPT MD. 37JIC MD. 56ORNGSYN
3	10278	1	MANIFOLD AXLE CONTROL
4	7445	2	VALVE PILOT OPER. BALL CHECK
5	7478	1	BRAKE HOSE ASSEMBLY
6	7314	3	PFPLUG M 43ORNG

ART246R2
BM4962
05/03/94



Figure 7F - Generator Option Manifold



ART-245R1
SCALE 1/2

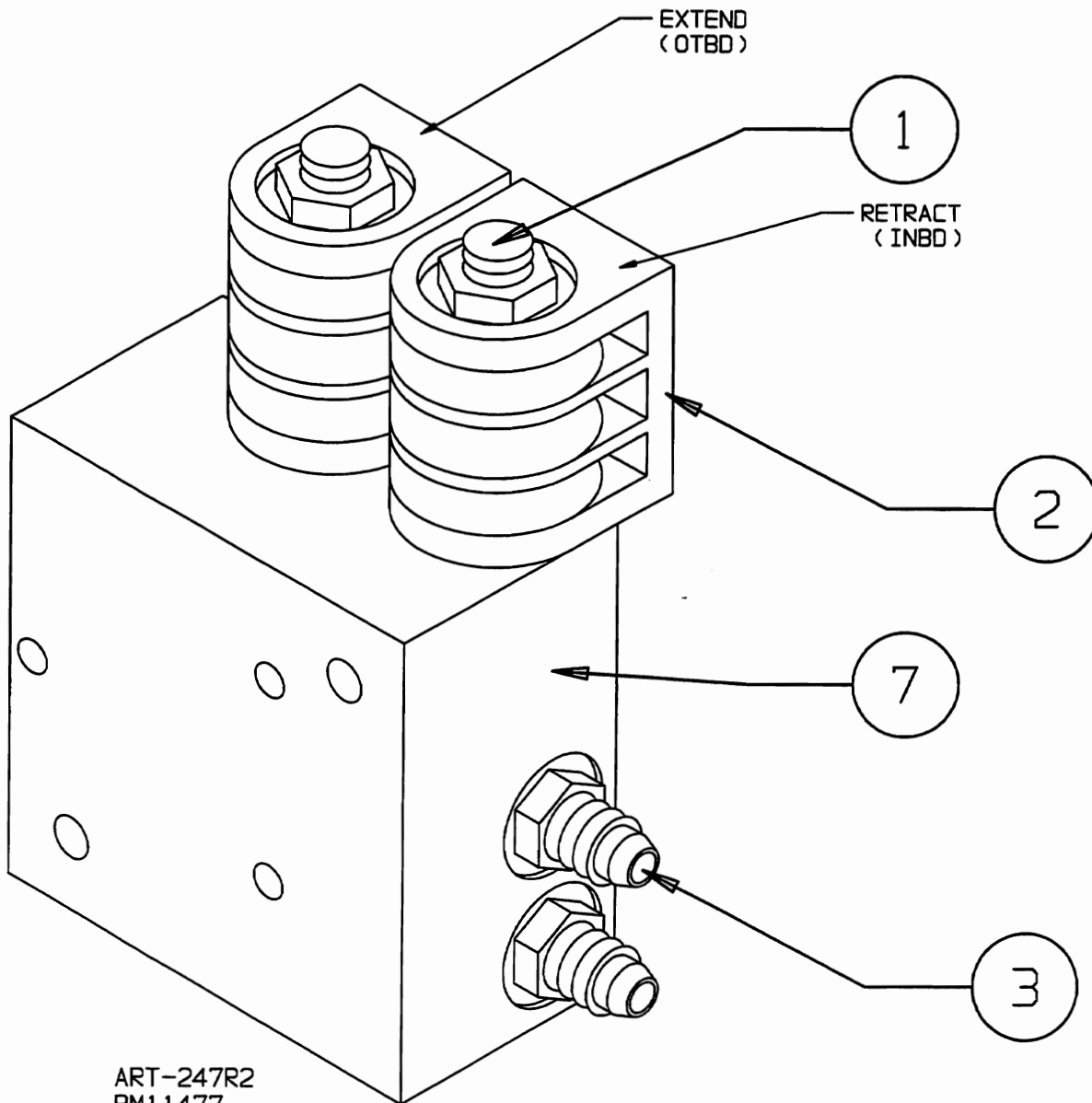
Figure 7F - Generator Option Manifold

ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW7314	3	PFPLUG M 43ORNG
2	HDW6502	3	BTCAPHEX .250 202.50Z 5N
3	HDW7438	2	PFADAPT MD.37JICMD.56ORNGSYN
4	10536	1	MANIFOLD
6	7560	1	PRIORITY FLOW CONTROL
5	6973	1	VALVE N.C. POPPET 2-WAY
	6870	1	12V COIL

ART-245R1
SCALE 1/2



Figure 7G - Outrigger Option Manifold



**Figure 7G - Outrigger Option Manifold**

ITEM	PART NO.	QTY.	DESCRIPTION
1	6976	2	VALVE 3 WAY 2 POSITION
2	6870	2	COIL 12V 1 SPADE ASSY W/DIODE
3	HDW7438	2	PFADAPT MD.37JIC MD.56ORNGSYN
4	HDW6502	3	BTCAPHEX .250 202.50Z 5N (NOT SHOWN)
5	7444	2	"O" RING, MANIFOLD (NOT SHOWN)
6	HDW7314	3	PFPLUG M 43ORNG (NOT SHOWN)
7	10200	1	MANIFOLD

ART-247R2
BM11477
01/01/96