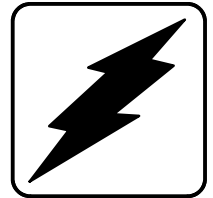


Wiring Diagrams

Fast-Response™ II Industrial Generator Sets



Models:

20-100RZ (Ford Powered)

Controllers:

Digital, Decision-Maker™ 340
Microprocessor, Decision-Maker™ 3+
Microprocessor, Decision-Maker™ 3
Decision-Maker™ 1
Manual

KOHLER[®]
POWER SYSTEMS

ISO 9001
KOHLER
GENERATORS
INTERNATIONALLY REGISTERED

TP-5719 8/00d

This manual provides wiring diagrams for the 20–100RZ generator sets equipped with one of the following controllers:

- Digital Controller, Decision-Maker™ 340
- Microprocessor Controller, Decision-Maker™ 3+
- Microprocessor Controller, Decision-Maker™ 3
- Decision-Maker™ 1 Controller
- Manual Controller

x:in:001:001

At the time of print this manual applied to the model numbers and specification (spec) numbers shown in the Wiring Diagram Cross-Reference chart. On occasion this manual may apply to specs not listed in the Wiring Diagram Cross-Reference chart.

Information in this publication represents data available at the time of print. Kohler Co. reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

x:in:001:002:a

Service Assistance

Please contact a local authorized distributor/dealer for sales, service, or other information about Kohler Co. Generator Division products.

- Look on the product or in the information included with the product
- Consult the Yellow Pages under the heading Generators—Electric
- Visit the Kohler Co. Generator Division web site at www.kohlergenerators.com
- Inside the U.S.A. and Canada, call 1-800-544-2444
- Outside the U.S.A. and Canada, call the nearest regional office

Africa, Europe, Middle East

London Regional Office
Langley, Slough, England
Phone: (44) 1753-580-771
Fax: (44) 1753-580-036

Australia

Australia Regional Office
Queensland, Australia
Phone: (617) 3893-0061
Fax: (617) 3893-0072

China

China Regional Office
Shanghai, People's Republic of China
Phone: (86) 21-6482 1252
Fax: (86) 21-6482 1255

India, Bangladesh, Sri Lanka

India Regional Office
Bangalore, India
Phone: (91) 80-2284270
(91) 80-2284279
Fax: (91) 80-2284286

Japan

Japan Regional Office
Tokyo, Japan
Phone: (813) 3440-4515
Fax: (813) 3440-2727

Latin America

Latin America Regional Office
Lakeland, Florida, U.S.A.
Phone: (941) 619-7568
Fax: (941) 701-7131

South East Asia

Singapore Regional Office
Singapore, Republic of Singapore
Phone: (65) 264-6422
Fax: (65) 264-6455

X:in:008:001

Wiring Diagrams

Use the Wiring Diagram Cross-Reference chart to determine the wiring diagram version number for a given model number and spec number. Then find that version number and the controller type on the Controller

Wiring Diagram Reference chart to determine the wiring diagram numbers for your unit. Refer to the generator set operation manual for controller type identification if necessary.

xin:003:002

Wiring Diagram Cross-Reference

Generator Set Model No.	Hz	Generator Set Spec No.	Wiring Diagram Version No.
20RZ	50/60	PA-185030, 33, 36, 39-42	1
	50/60	PA-185037, 38	2
	50/60	PA-185068-89	(2, 3)*
	50/60	PA-185112-	4
30RZ	50/60	PA-185050, 53, 54, 57, 60-63	1
	50/60	PA-185058, 59	2
	50/60	PA-185072-	(2, 4)*
33RZ	50/60	PA-183030, 33, 36, 39-41	1
35RZ	50/60	PA-183037, 38	2
	50/60	PA-183042-	(2, 4)*
40RZ	50/60	PA-187139	3
45RZ	50/60	PA-183230, 33, 36, 37, 40-43	1
45RZ	50/60	PA-183238, 39	2
	50/60	PA-183244-	(2, 4)*
50RZ	50/60	PA-187130, 31, 33, 36-38	1
	50/60	PA-187139-	(2, 4)*
60RZ	50/60	PA-187060, 63, 66-68, 71, 75	1
	50/60	PA-187076-	(2, 4)*
70RZ	50/60	PA-187260, 63, 66, 69-71	1
	50/60	PA-187272-	(2, 4)*
80RZ	50/60	PA-187334, 35, 39-40	1
	50/60	PA-187341-	(2, 4)*
100RZ	50/60	PA-187435, 38	1
	50/60	PA-187441-	(2, 4)*

* Select Version 2 for serial numbers below 363369.
Select Version 3 or 4 for serial number 363369 and above.

xin:003:003

Controller Wiring Diagram Reference

Controller Description	Version 1	P.	Version 2	P.	Version 3	P.	Version 4	P.
Generator Reconnections	—		—		—		ADV-5875A-D	1
Digital Controller, Decision-Maker™ 340								
Point-to-Point Wiring Diagram								
Sheet 1	—		—		347940A-G	60	347940A-K	61
Sheet 2	—		—		347940B-B	62	347940B-K	63
Sheet 3	—		—		—		347940C-K	64
Sheet 4	—		—		—		347940D-K	65
Schematic Diagram								
Sheet 1	—		—		ADV-6130A-F	14	ADV-6130A-K	15
Sheet 2	—		—		ADV-6130B-B	16	ADV-6130B-K	17
Sheet 3	—		—		ADV-6130C-C	18	—	
Accessory Connections								
Accessories	—		—		354246A-C	66	354246A-D	67
Remote Annunciator Kit	—		—		354246B-A	68	354246B-D	69
Microprocessor Controller, Decision-Maker™ 3+ and Decision-Maker™ 3								
Point-to-Point Wiring Diagram								
1 Phase/3 Phase	258954-H	22	—		—		—	
3 Phase/600 Volt Standard	258966-H	23	—		—		—	
Sheet 1	—		326035A-E	24	326604A-B	34	326604A-J	35
Sheet 2	—		326035B-	25	326604B-B	36	326604B-J	37
Sheet 3	—		—		—		326604C-J	38
Sheet 4	—		—		—		326604D-J	39
Oversize								
Sheet 1	—		326036A-D	26	326605A-B	40	—	
Sheet 2	—		326036B-	27	326605B-B	41	—	
Schematic Diagram								
1 Phase/3 Phase	ADV-5618-E	2	ADV-5618-E	2	ADV-6002-C	7	—	
3 Phase/600 Volt	ADV-5619-J	3	ADV-5619-J	3	ADV-6004-C	9	—	
1 Phase/3 Phase/600 Volt	—		—		—		ADV-6002-F	8
Accessory Connections								
Accessories	255828A-N	19	255828A-N	19	328912A-E	56	328912A-F	57
Remote Annunciator Kit								
Sheet 1	255828B-N	20	255828B-N	20	328912B-C	58	328912B-F	59
Sheet 2	255828C-N	21	255828C-N	21	—		—	

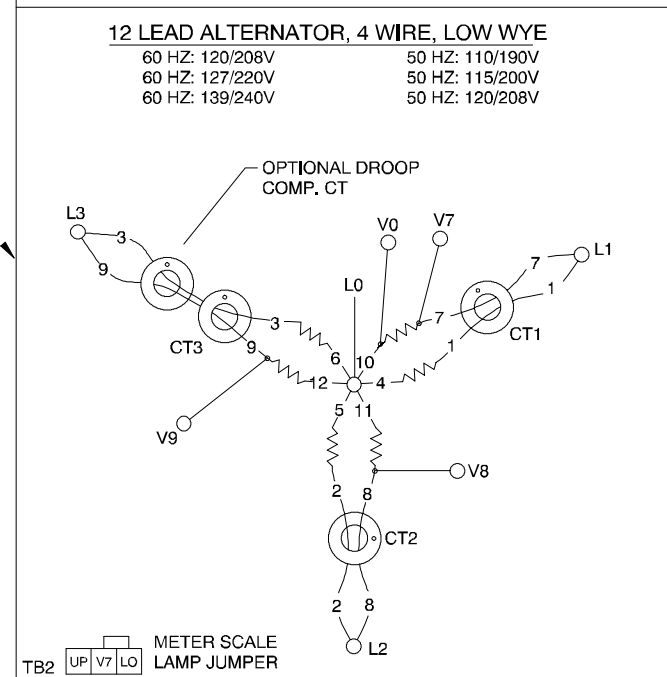
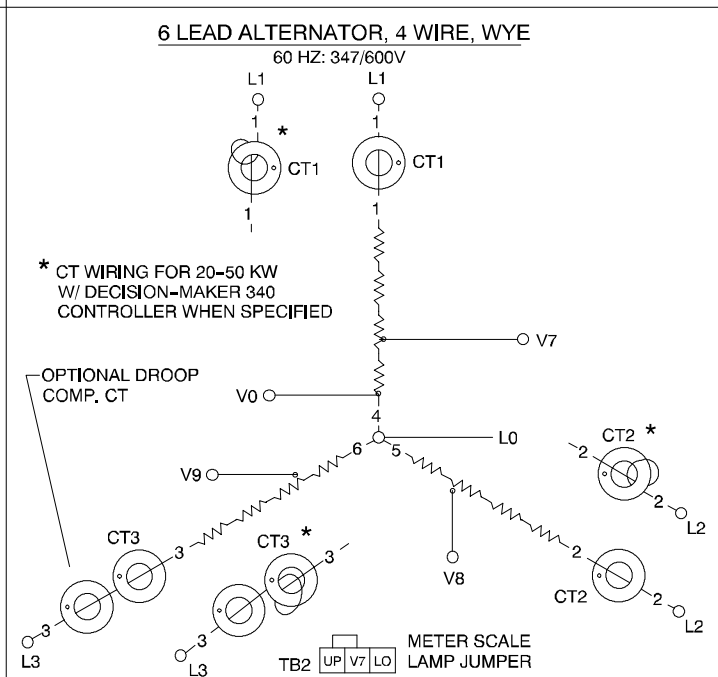
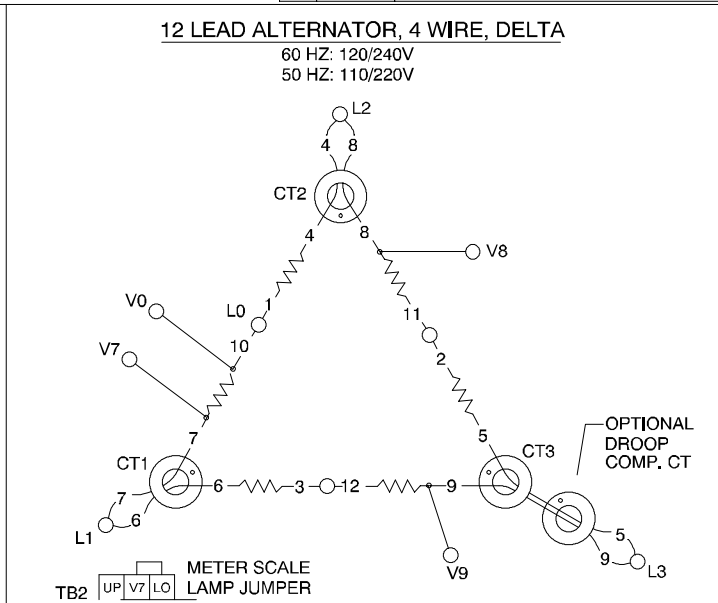
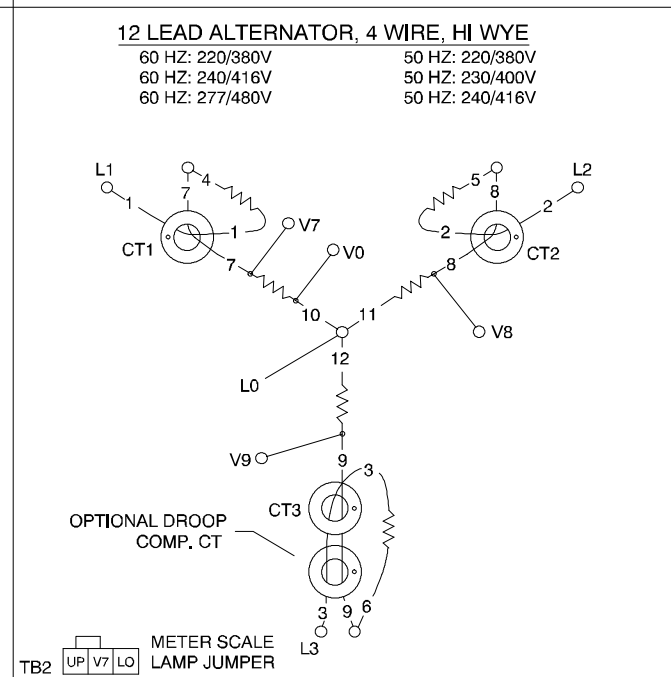
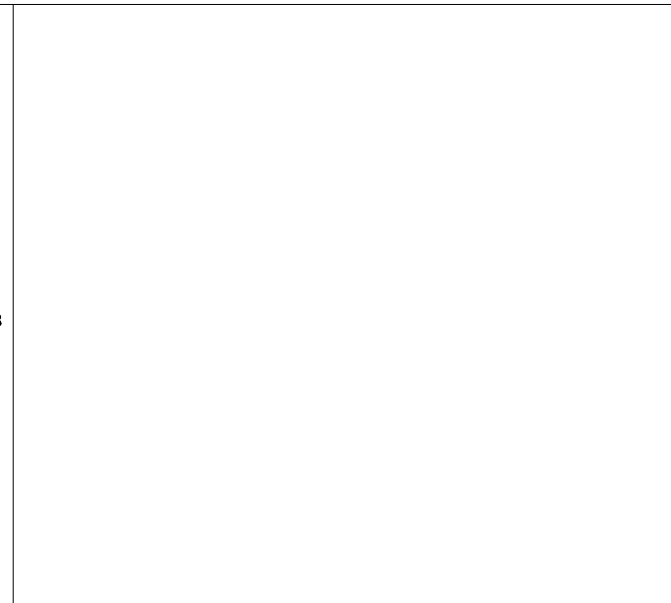
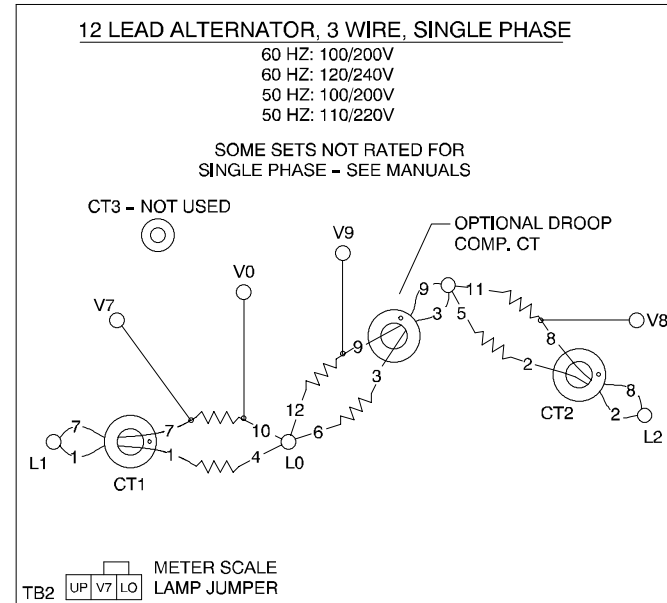
NOTE: Version 2 covers the Microprocessor Decision-Maker™ 3 controller (serial numbers below 363369).
Version 3 covers the Microprocessor Decision-Maker™ 3+ controller (20RZ with Ford LSG-423 engine only).
Version 4 covers the Microprocessor Decision-Maker™ 3+ controller (20RZ with Ford LRG-423 or LRG-425 engine and all 30-100RZ).

Controller Wiring Diagram Reference, continued

Controller Description	Version 1	P.	Version 2	P.	Version 3	P.	Version 4	P.
Decision-Maker™ 1 Controller								
Standard without Engine Gauges								
Point-to-Point Wiring Diagram								
Sheet 1	—		—		326617A-B	48	326689A-F	51
Sheet 2	—		—		326617B-A	49	326689B-F	53
Sheet 3	—		—		—		326689C-F	54
Sheet 4	—		—		—		326689D-F	55
Schematic Diagram								
Sheet 1	—		—		ADV-6010-E	12	ADV-6010-F	13
Standard with Engine Gauges								
Point-to-Point Wiring Diagram								
Sheet 1	—		—		326689A-B	50	326689A-F	51
Sheet 2	—		—		326689B-A	52	326689B-F	53
Sheet 3	—		—		—		326689C-F	54
Sheet 4	—		—		—		326689D-F	55
Schematic Diagram								
Sheet 1	—		—		ADV-6010-E	12	ADV-6010-F	13
Expanded with Engine Gauges and AC Meters								
Point-to-Point Wiring Diagram								
Sheet 1	—		—		326616A-A	42	326616A-E	43
Sheet 2	—		—		326616B-A	44	326616B-E	45
Sheet 3	—		—		—		326616C-E	46
Sheet 4	—		—		—		326616D-E	47
Schematic Diagram								
Sheet 1	—		—		ADV-6008-G	10	ADV-6008-H	11
Manual Controller								
Point-to-Point Wiring Diagram								
Sheet 1	—		326037A-F	28	326037A-F	28	326037A-J	29
Sheet 2	—		326037B-C	30	326037B-C	30	326037B-J	31
Sheet 3	—		—		—		326037C-J	32
Sheet 4	—		—		—		326037D-J	33
Schematic Diagram								
Sheet 1	—		ADV-5664-D	4	ADV-5664-D	4	ADV-5664-G	5
Sheet 2	—		ADV-5665-E	6	ADV-5665-E	6	—	

NOTE: Version 2 covers the Microprocessor Decision-Maker™ 3 controller (serial numbers below 363369).
Version 3 covers the Microprocessor Decision-Maker™ 3+ controller (20RZ with Ford LSG-423 engine only).
Version 4 covers the Microprocessor Decision-Maker™ 3+ controller (20RZ with Ford LRG-423 or LRG-425 engine and all 30-100RZ).

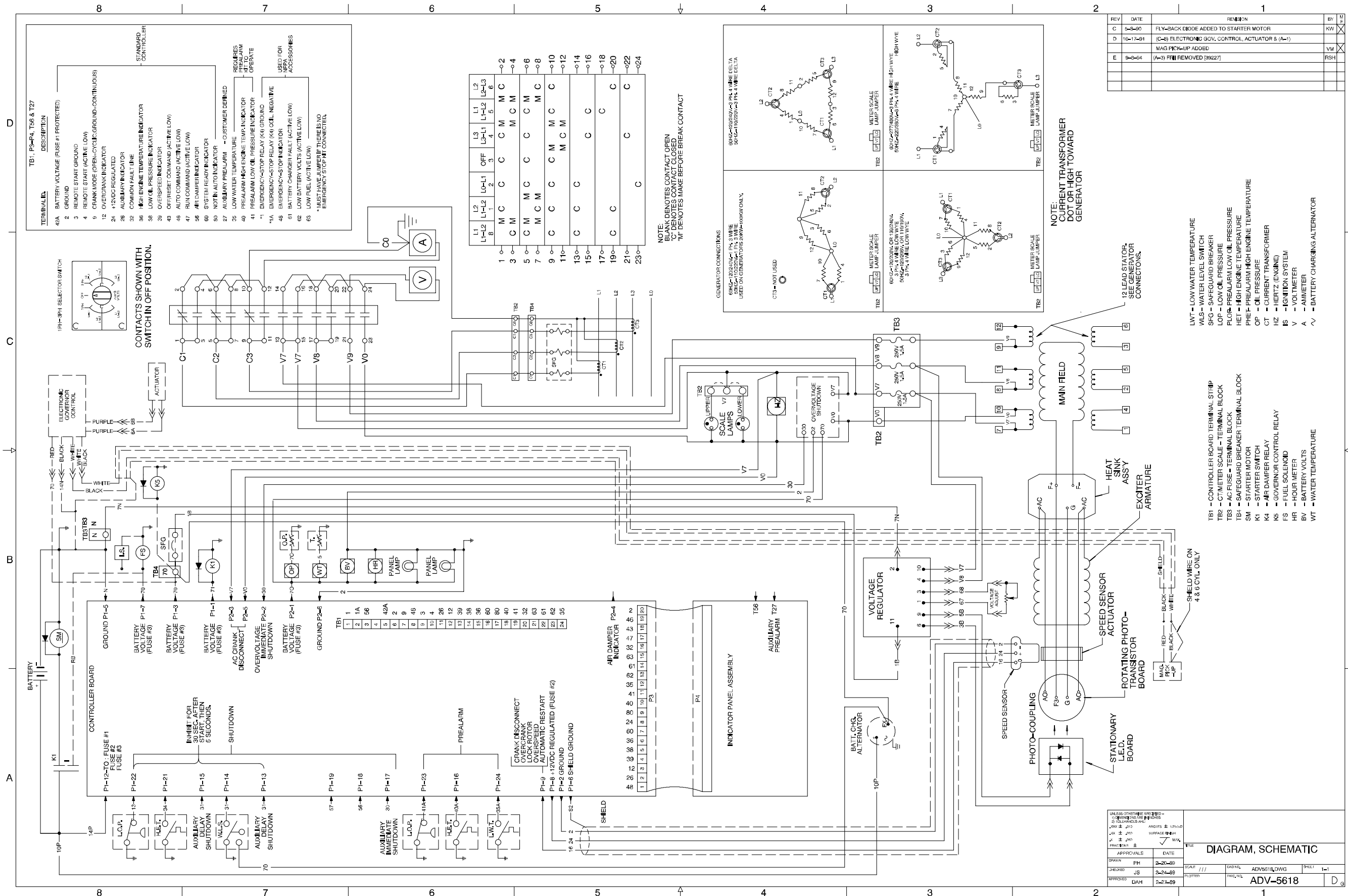
REV	DATE	REVISION	BY
B	11-4-98	(B-1,2,3,4 C-1) OPTIONAL DROOP MOVED FROM L2 TO L3 [56797]	JS
C	6-2-99	(C-3) MARINE ONLY: L0 REMOVED, L0 WAS L1, L1 WAS L2. TAPE TWO PLACES WAS ONE [58896]	SAM
D	6-17-99	DIAGRAMS UPDATED; (B-2, C-4) NOTE & CT'S ADDED FOR 20-50 KW W/ DECISION-MAKER 340 & DIGITAL CONTROLLERS [59021]	KAR



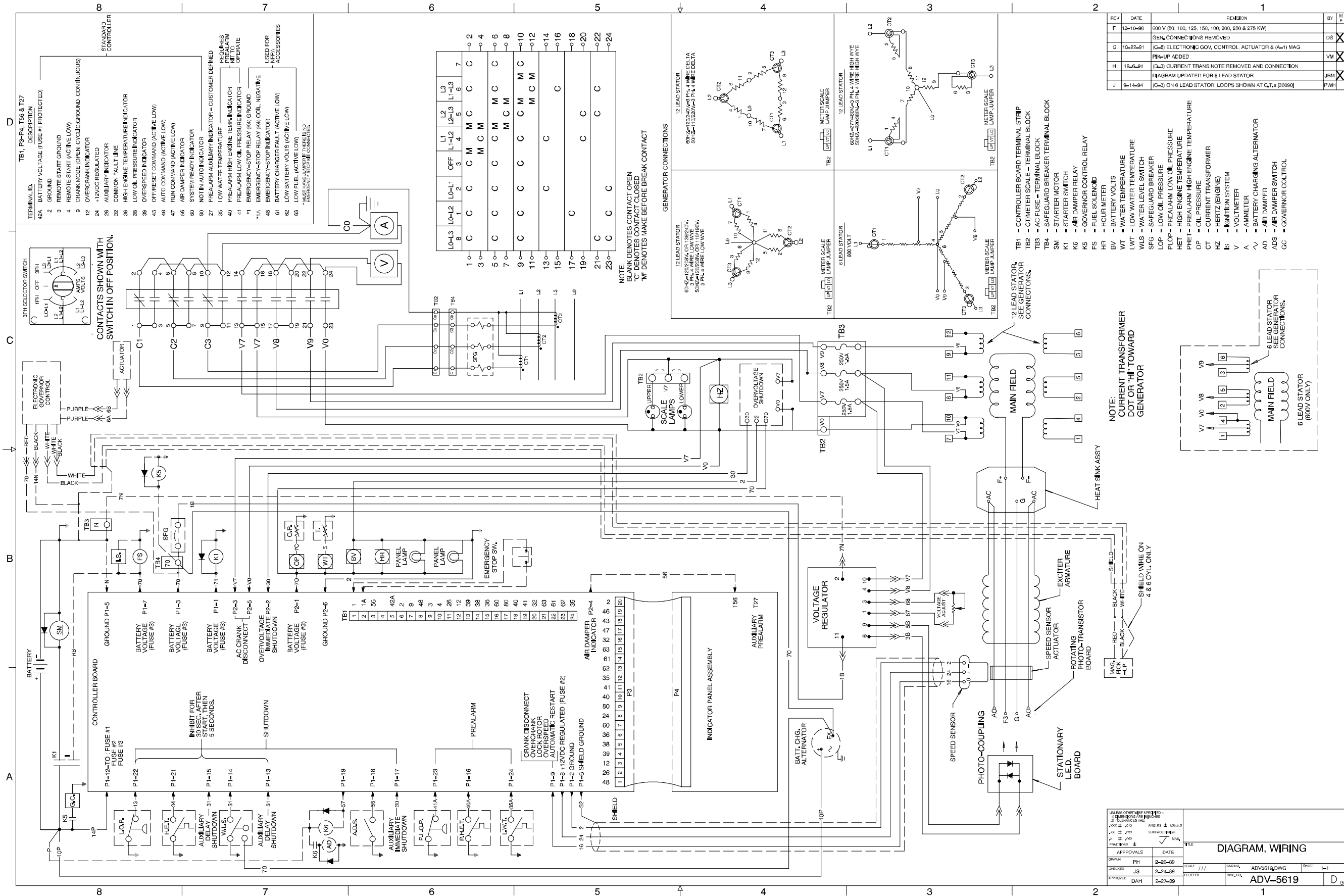
PHASE ROTATION
 A B C
 L1 L2 L3

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX ± .010 ANGLES ± 1/2° XX ± .030 SURFACE FINISH X ± .060 ✓ MAX. FRACTIONS ±		TITLE 3 Ø RECONNECTABLE	
APPROVALS	DATE	SCALE	NONE
DRAWN	DFS 7-28-92	CAD NO.	ADV5875ADWG
CHECKED	TLK 6-23-99	SHEET	1-2
APPROVED	JMH 6-25-99	DWG. NO.	ADV-5875

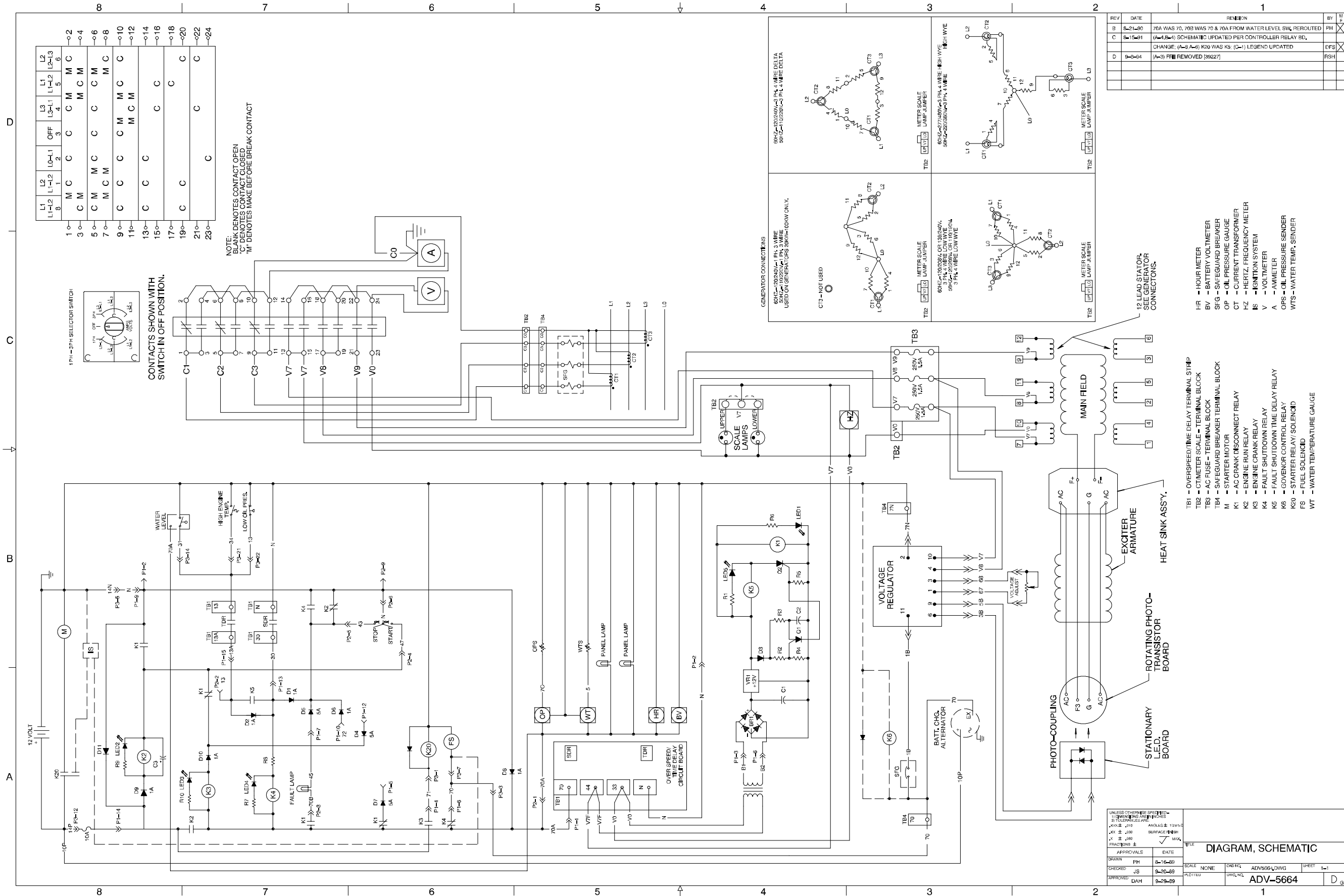
Generator Reconnections, ADV-5875A-D



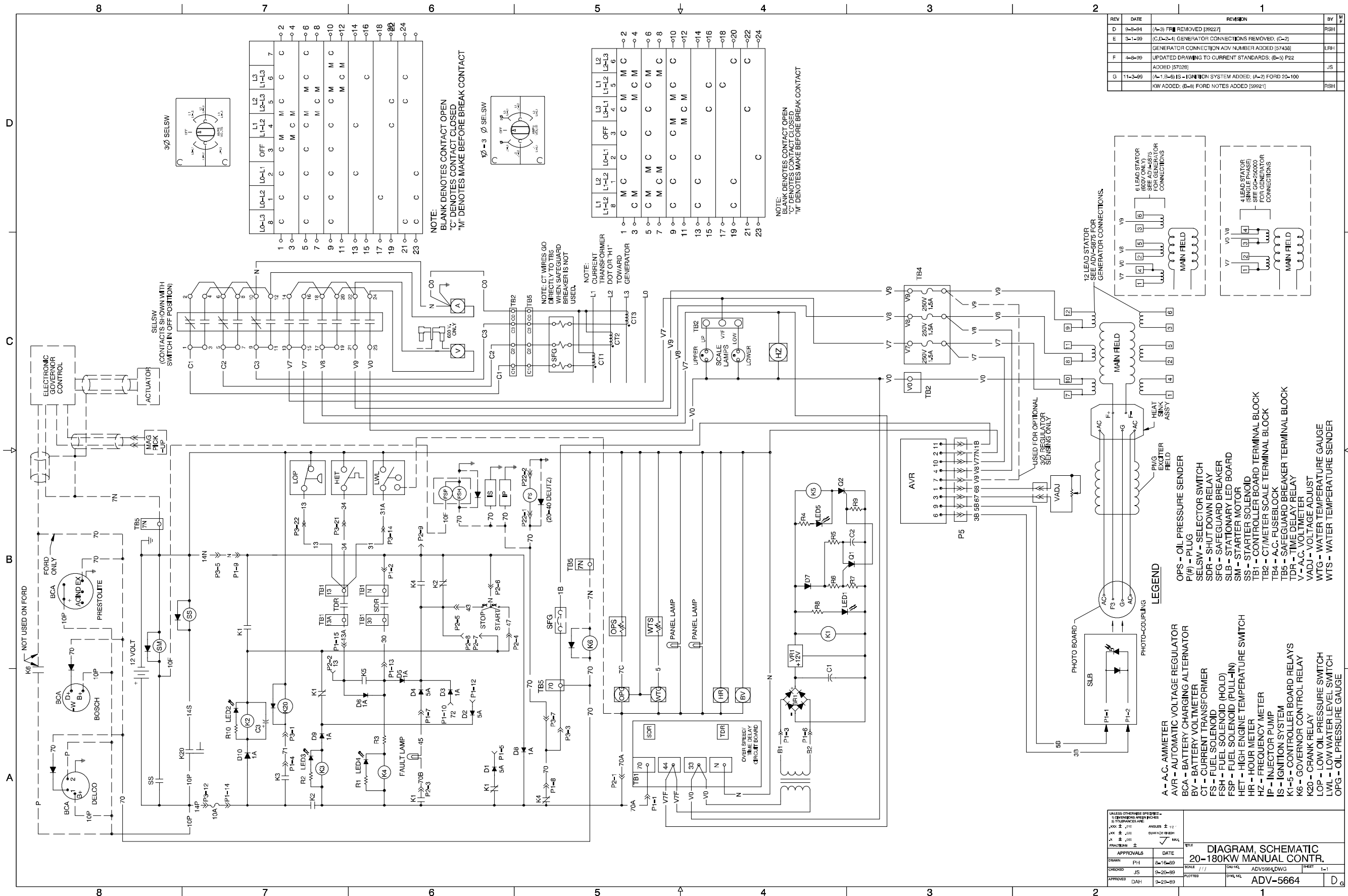
Microprocessor Controller, Schematic Diagram, 1 Phase/3 Phase, ADV-5618-E



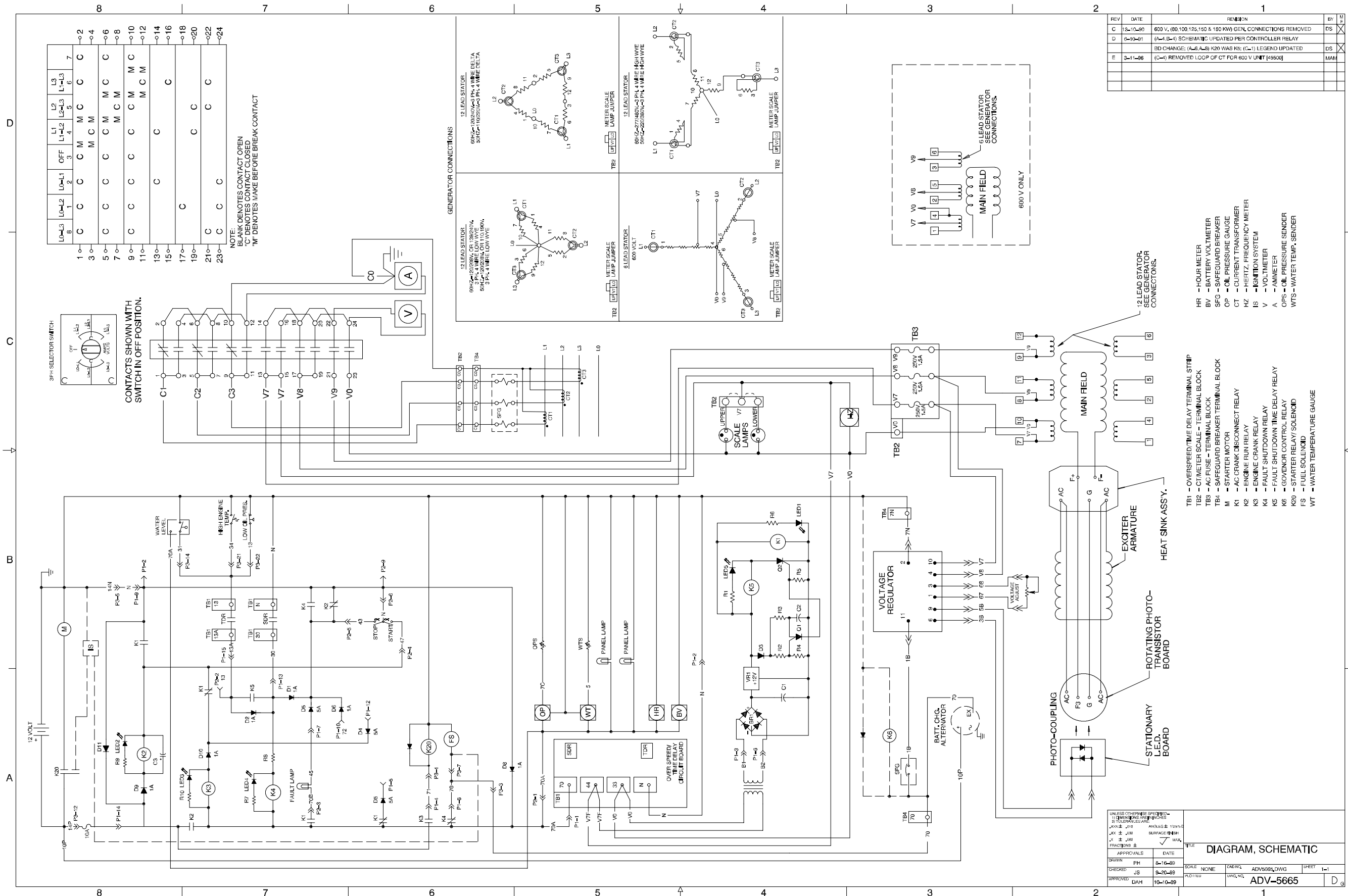
Microprocessor Controller, Schematic Diagram, 3 Phase/600 Volt, ADV-5619-J



Manual Controller, Schematic Diagram, Sheet 1, ADV-5664-D

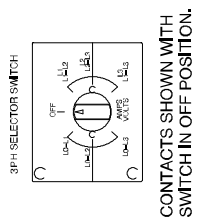


Manual Controller, Schematic Diagram, Sheet 1, ADV-5664-G



10-L3	LO-L2	LO-L1	OFF	L1	L2	L3
8	1	2	3	4	5	6
3-0	C	C	M	C	C	C
5-0	C	C	C	M	M	C
7-0	C	C	C	C	M	C
9-0	C	C	C	C	M	M
11-0	C	C	C	C	C	M
13-0	C	C	C	C	C	C
15-0	C	C	C	C	C	C
17-0	C	C	C	C	C	C
19-0	C	C	C	C	C	C
21-0	C	C	C	C	C	C
23-0	C	C	C	C	C	C

NOTE: BLANK DENOTES CONTACT OPEN
 'C' DENOTES CONTACT CLOSED
 'M' DENOTES MAKE BEFORE BREAK CONTACT



CONTACTS SHOWN WITH SWITCH IN OFF POSITION.

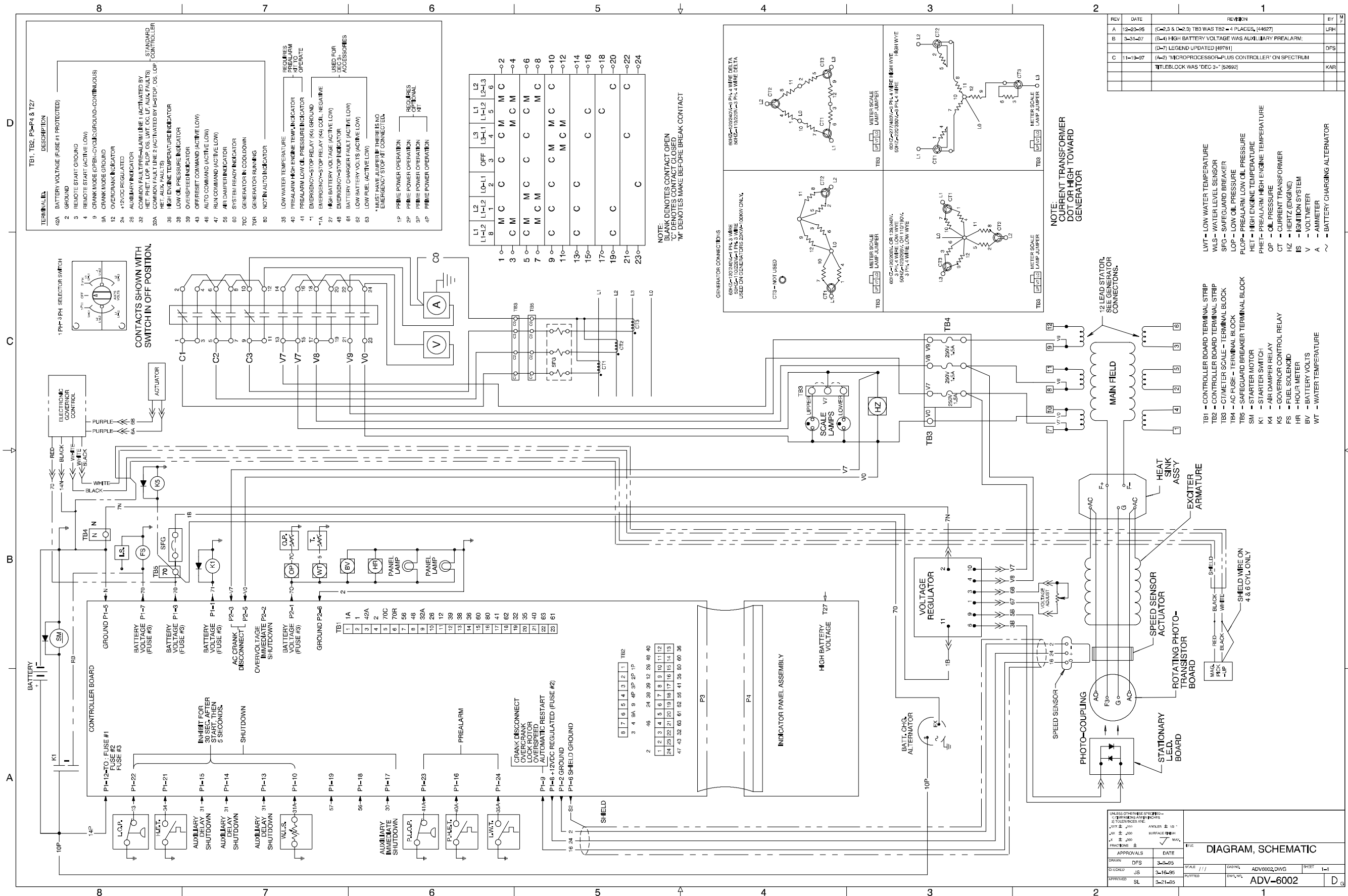
REV	DATE	REVISION	BY	CHK
C	12-10-90	600 V, (80,100,125,150 & 180 KW) GEN. CONNECTIONS REMOVED	DS	X
D	5-10-01	(A-B-C) SCHEMATIC UPDATED PER CONTROLLER RELAY	DS	X
E	2-11-06	BD CHANGE: (A-B-C) K20 WAS K5; (C-1) LEGEND UPDATED	DS	X
		(C-1) REMOVED LOOP OF CT FOR 600 V UNIT [4950]	MM	

- HR - HOUR METER
- BV - BATTERY VOLTMETER
- SFG - SAFEGUARD BREAKER
- OP - OIL PRESSURE GAUGE
- CT - CURRENT TRANSFORMER
- HZ - HERTZ FREQUENCY METER
- IS - IGNITION SYSTEM
- V - VOLTMETER
- A - AMP METER
- OPS - OIL PRESSURE SENDER
- WTS - WATER TEMP. SENDER

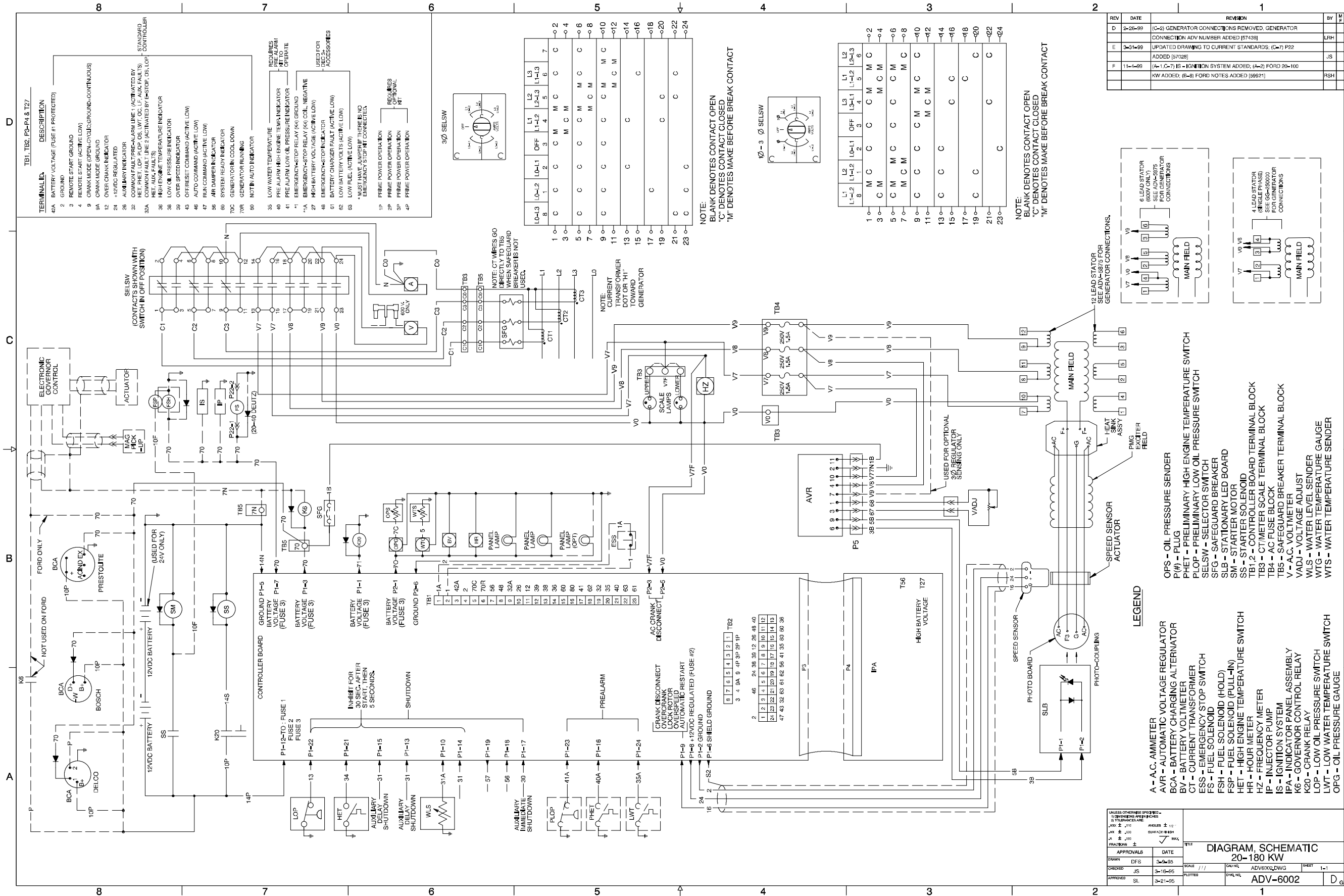
- TB1 - OVERSPEED TIME DELAY TERMINAL STRIP
- TB2 - CT METER SCALE - TERMINAL BLOCK
- TB3 - AC FUSE - TERMINAL BLOCK
- TB4 - SAFEGUARD BREAKER TERMINAL BLOCK
- M - STARTER MOTOR
- K1 - AC CRANK DISCONNECT RELAY
- K2 - ENGINE RUN RELAY
- K3 - ENGINE CRANK RELAY
- K4 - FAULT SHUTDOWN RELAY
- K5 - FAULT SHUTDOWN TIME DELAY RELAY
- K6 - GOVERNOR CONTROL RELAY
- K20 - STARTER RELAY/SOLENOID
- FS - FUEL SOLENOID
- WT - WATER TEMPERATURE GAUGE

UNLESS OTHERWISE SPECIFIED: 1. DIMENSIONS ARE IN INCHES 2. SURFACE FINISH 3. FRACTIONS ±		TITLE DIAGRAM, SCHEMATIC	
APPROVALS	DATE	SCALE	NONE
DRAWN FH	8-16-89	DWG NO.	ADV/5665/DWG
CHECKED JS	8-20-89	SHEET	1-1
APPROVED DAH	10-10-89	DWG NO.	ADV-5665

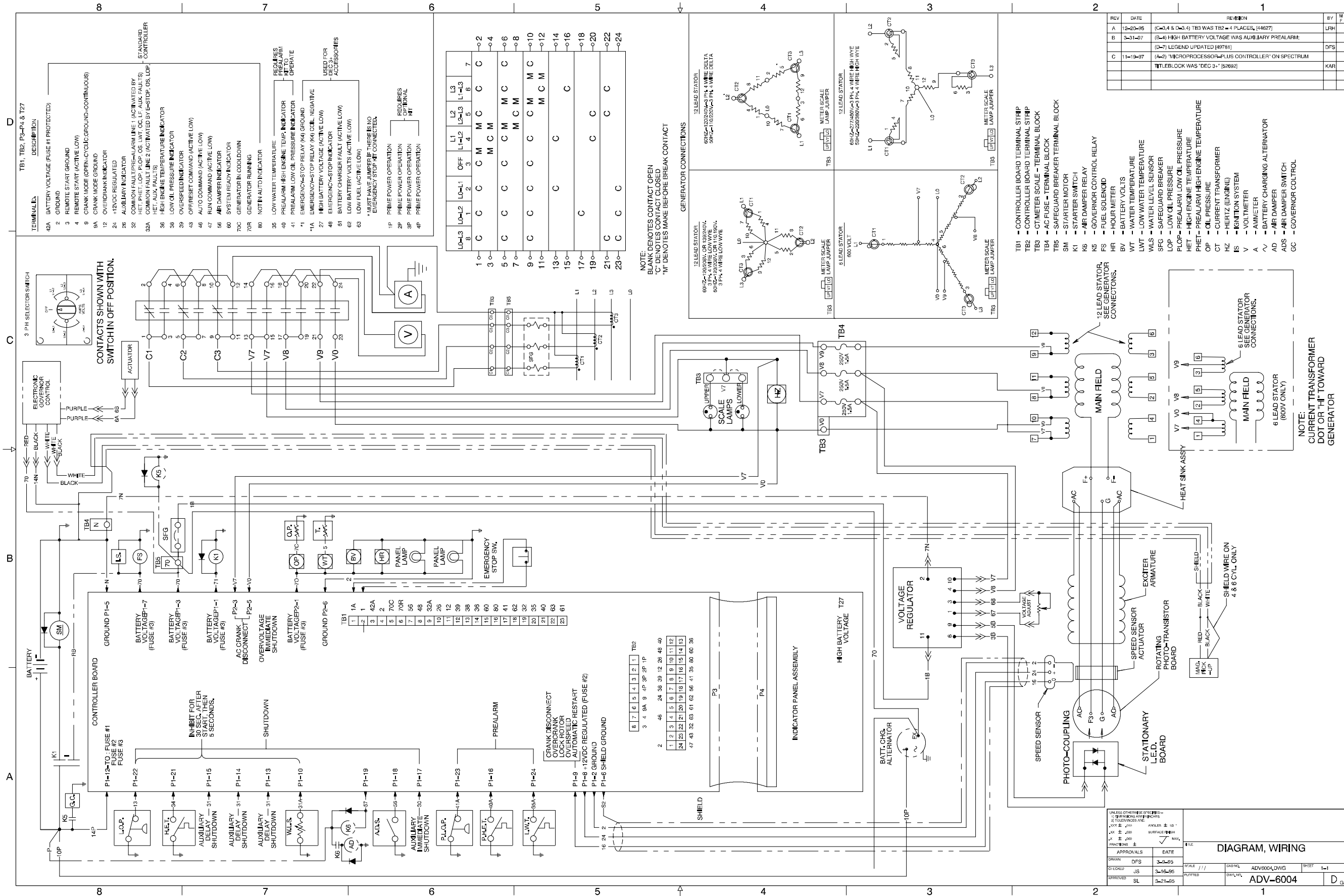
Manual Controller, Schematic Diagram, Sheet 2, ADV-5665-E



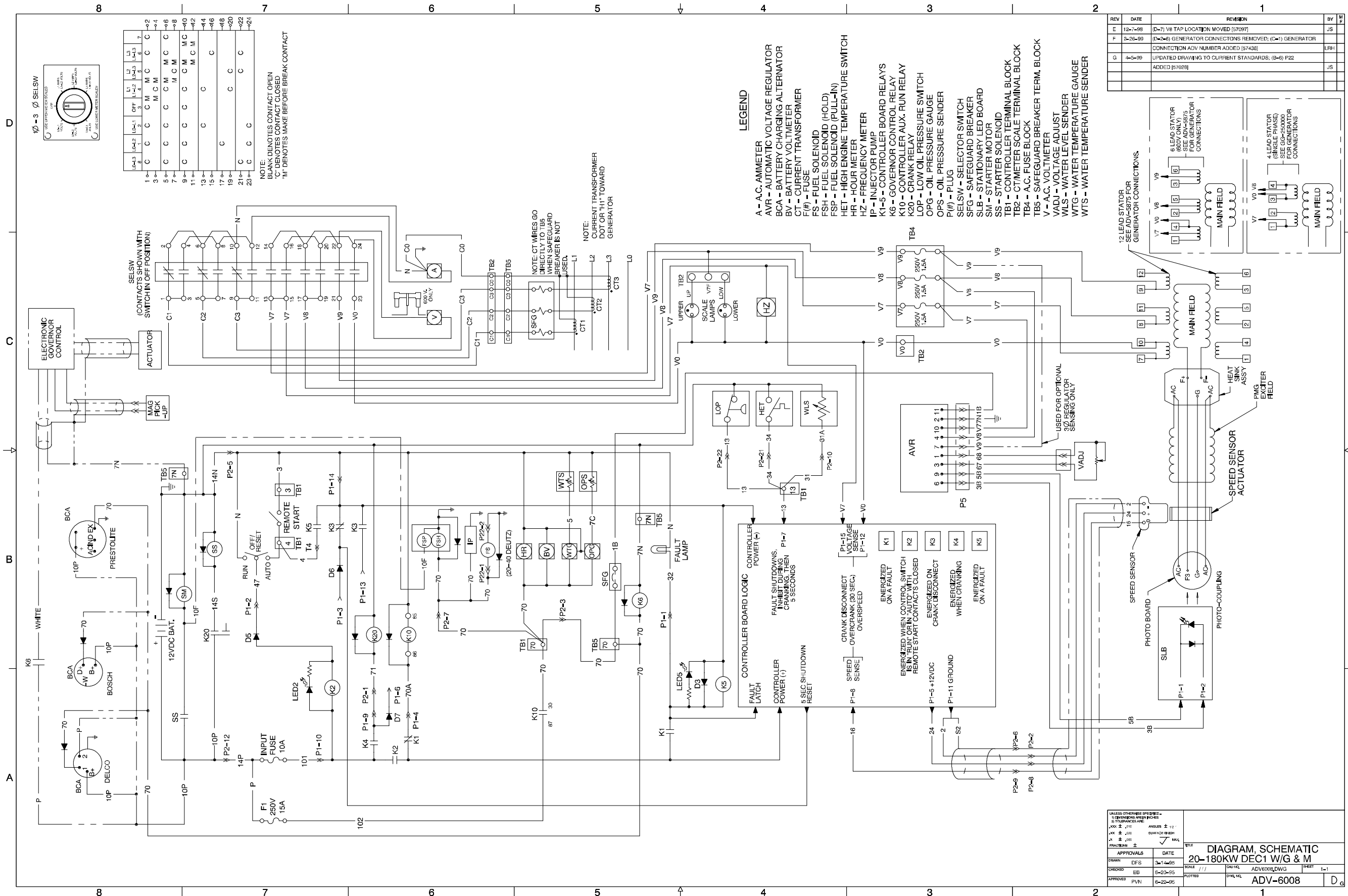
Microprocessor Controller, Schematic Diagram, 1 Phase/3 Phase, ADV-6002-C



Microprocessor Controller, Schematic Diagram, 1 Phase/3 Phase/600 Volt, ADV-6002-F



Microprocessor Controller, Schematic Diagram, 3 Phase/600 Volt, ADV-6004-C



Terminal	1	2	3	4	5	6	7
Ua-1	OFF	L1	L2	L3	L4	L5	L6
Ua-2	C	C	C	M	M	C	C
Ua-3	C	C	C	C	M	C	C
Ua-4	C	C	C	C	C	M	C
Ua-5	C	C	C	C	C	M	C
Ua-6	C	C	C	C	C	M	C
Ua-7	C	C	C	C	C	M	C
Ua-8	C	C	C	C	C	C	C
Ua-9	C	C	C	C	C	C	C
Ua-10	C	C	C	C	C	C	C
Ua-11	C	C	C	C	C	C	C
Ua-12	C	C	C	C	C	C	C
Ua-13	C	C	C	C	C	C	C
Ua-14	C	C	C	C	C	C	C
Ua-15	C	C	C	C	C	C	C
Ua-16	C	C	C	C	C	C	C
Ua-17	C	C	C	C	C	C	C
Ua-18	C	C	C	C	C	C	C
Ua-19	C	C	C	C	C	C	C
Ua-20	C	C	C	C	C	C	C
Ua-21	C	C	C	C	C	C	C
Ua-22	C	C	C	C	C	C	C
Ua-23	C	C	C	C	C	C	C
Ua-24	C	C	C	C	C	C	C

NOTE:
 BLANK DENOTES CONTACT OPEN
 "C" DENOTES CONTACT CLOSED
 "M" DENOTES MAKE BEFORE BREAK CONTACT

NOTE: CT WIRES GO DIRECTLY TO TBS WHEN SAFEGUARD BREAKER IS NOT USED.

NOTE: CURRENT TRANSFORMER DOT OR "H" TOWARD GENERATOR

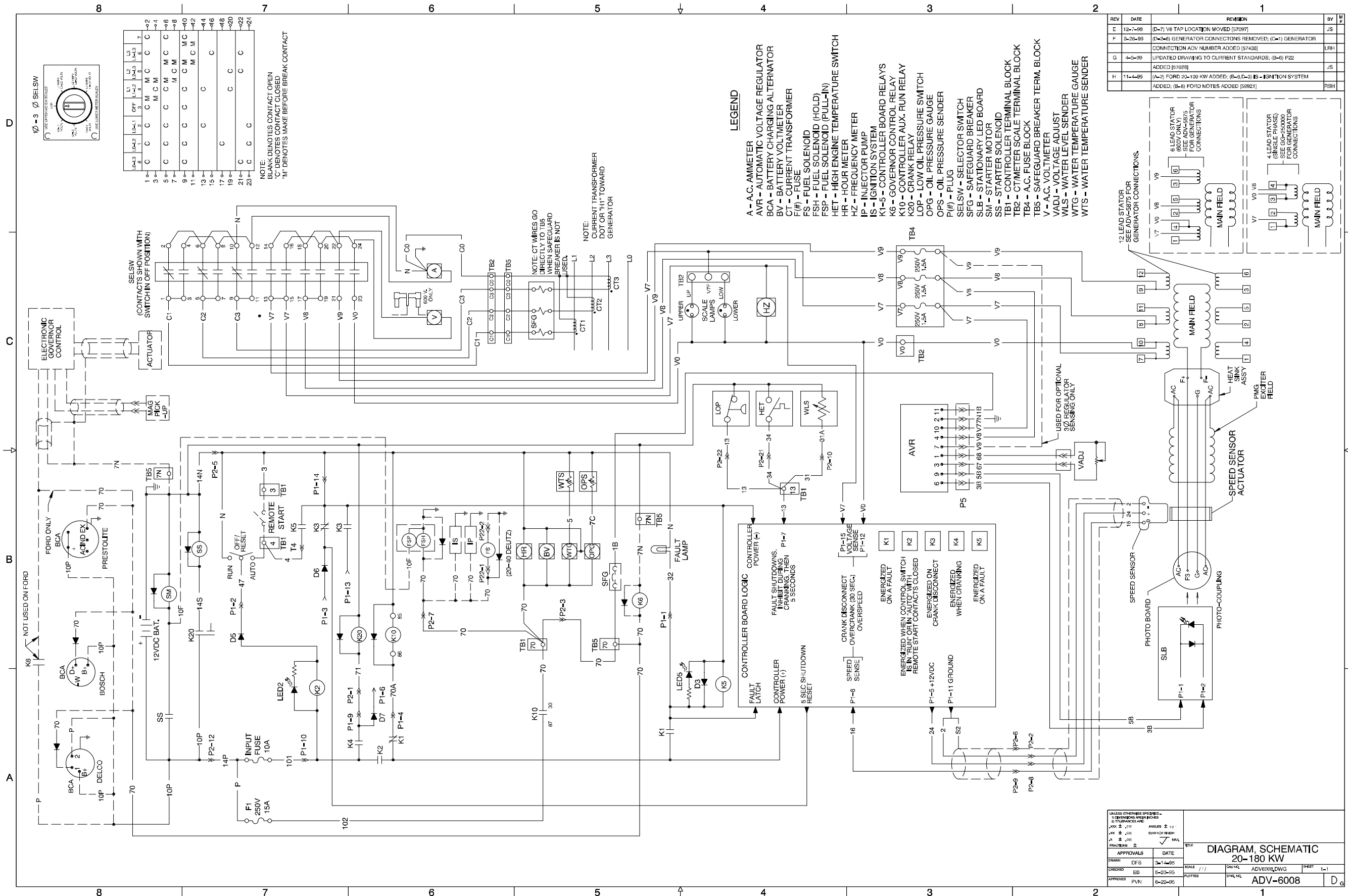
LEGEND

- A - A.C. AMMETER
- AVR - AUTOMATIC VOLTAGE REGULATOR
- BCA - BATTERY CHARGING ALTERNATOR
- BV - BATTERY VOLT METER
- CT - CURRENT TRANSFORMER
- F(#) - FUSE
- FS - FUEL SOLENOID
- FSP - FUEL SOLENOID (HOLD)
- FSP - FUEL SOLENOID (PULL-IN)
- HET - HIGH ENGINE TEMPERATURE SWITCH
- HR - HOUR METER
- HZ - FREQUENCY METER
- IP - INJECTOR PUMP
- K1-5 - CONTROLLER BOARD RELAYS
- K6 - GOVERNOR CONTROL RELAY
- K10 - CONTROLLER AUX. RUN RELAY
- K20 - CRANK RELAY
- LOP - LOW OIL PRESSURE SWITCH
- OPG - OIL PRESSURE GAUGE
- OPS - OIL PRESSURE SENDER
- PI(#)- PLUG
- SELW - SELECTOR SWITCH
- SFG - SAFEGUARD BREAKER
- SLB - STATIONARY LED BOARD
- SM - STARTER MOTOR
- SS - STARTER SOLENOID
- TB1 - CONTROLLER TERMINAL BLOCK
- TB2 - CT METER SCALE TERMINAL BLOCK
- TB4 - A.C. FUSE BLOCK
- TB5 - SAFEGUARD BREAKER TERM. BLOCK
- V - A.C. VOLT METER
- VADJ - VOLTAGE ADJUST
- WLS - WATER LEVEL SENDER
- WTG - WATER TEMPERATURE GAUGE
- WTS - WATER TEMPERATURE SENDER

UNLESS OTHERWISE SPECIFIED: 1. DIMENSIONS ARE IN INCHES 2. TOLERANCES ARE: FRACTIONS ± .015 DECIMALS ± .005 ANGLES ± 10' HOLE POSITION ± .010 HOLE DIAMETER ± .005	DATE: 2-1-85 DRAWN: DFS CHECKED: EB APPROVED: PUN	SCALE: 1:1 SHEET: 1-1 PLOTTED: 2-22-85	DATE: 2-1-85 DRAWN: DFS CHECKED: EB APPROVED: PUN
---	--	--	--

DIAGRAM, SCHEMATIC 20-180KW DEC1 W/G & M			
ADV-6008	D	1-1	

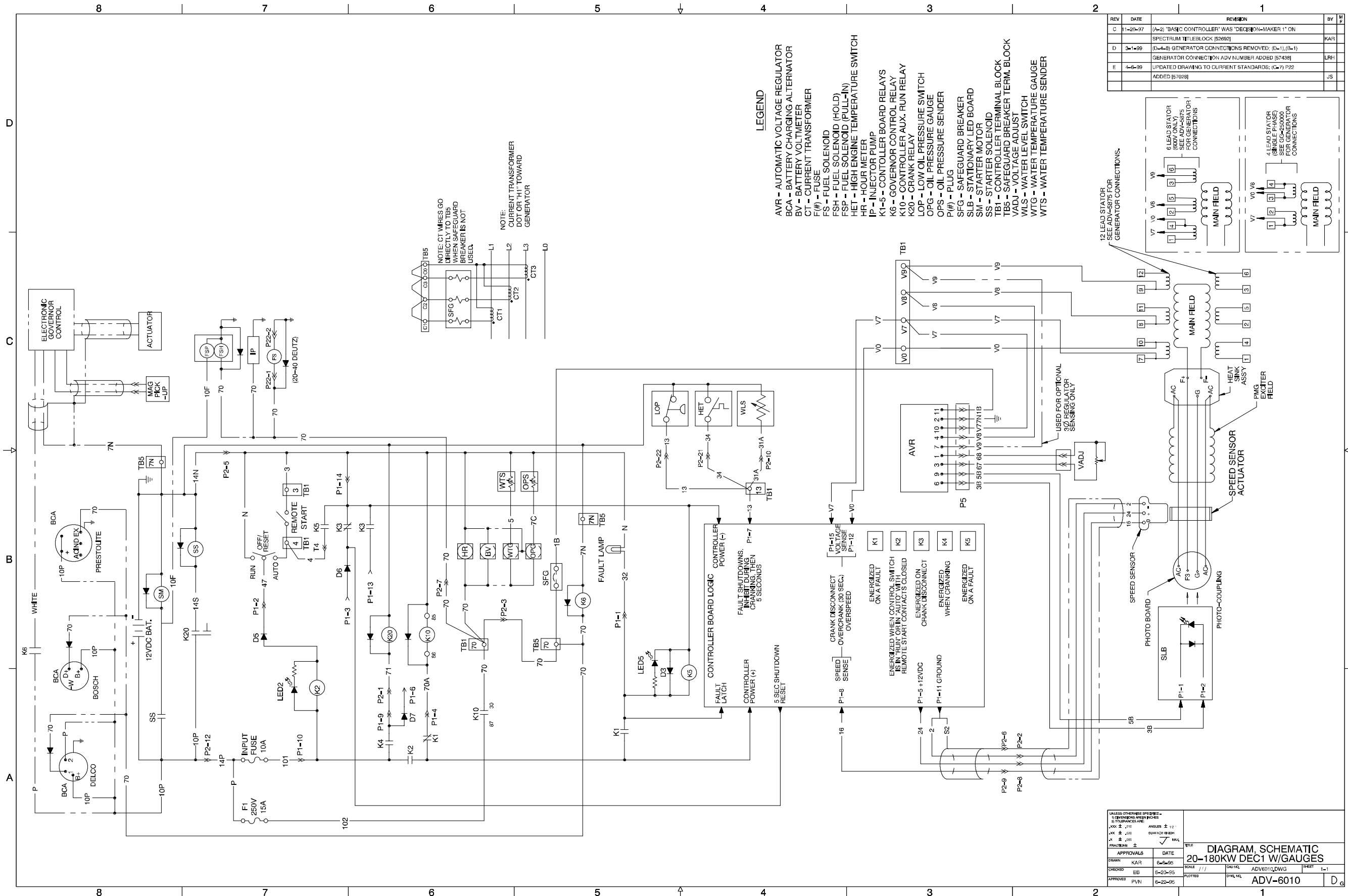
Decision-Maker™ 1 Controller, Expanded, Schematic Diagram, Sheet 1, ADV-6008-G



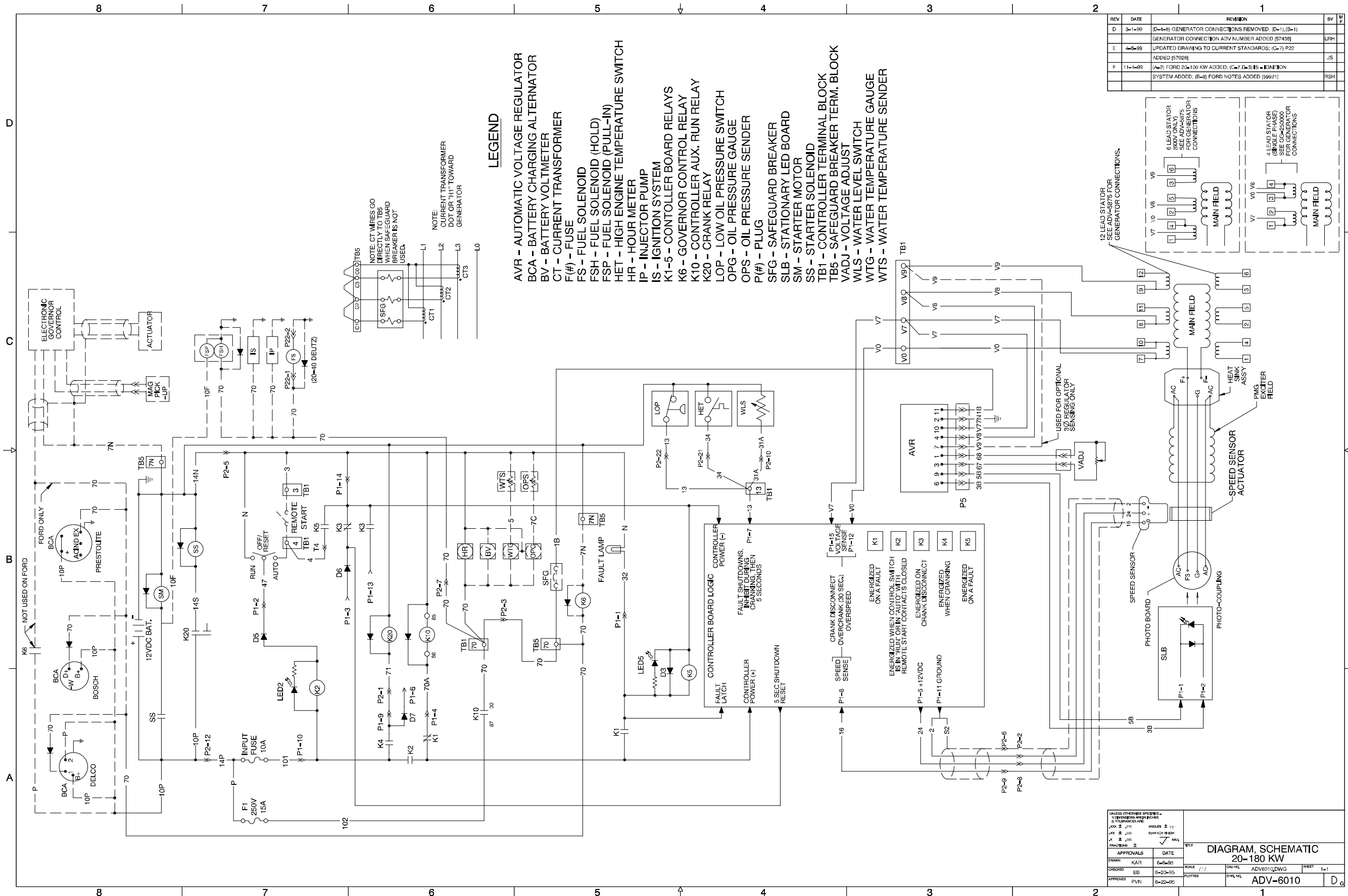
REV	DATE	REVISION	BY	CHK
E	12-7-98	(D-7) V8 TAP LOCATION MOVED (57097)	JS	
F	2-26-99	(D-2-6) GENERATOR CONNECTIONS REMOVED; (C-1) GENERATOR CONNECTION ADV NUMBER ADDED (57436)	LJR	
G	4-5-99	UPDATED DRAWING TO CURRENT STANDARDS; (S-6) P22 ADDED (57028)	JS	
H	11-4-99	(A-2) FORD 20-100 KW ADDED; (E-5-D-3) IS - IGNITION SYSTEM ADDED; (S-8) FORD NOTES ADDED (58921)	FSH	

UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • TOLERANCES ARE: DIMENSIONS IN INCHES ANGLES ± 10° FRACTIONS DECIMALS FRACTIONS DECIMALS		DATE		SHEET	
APPROVALS	DATE	SCALE	DWG. NO.	REV.	SHEET
DRAWN DFS	2-1-95	1/1	ADV-6008-DWG3		1-1
CHECKED EB	5-20-95				
APPROVED PUN	6-22-95				
DIAGRAM, SCHEMATIC 20-180 KW			ADV-6008		

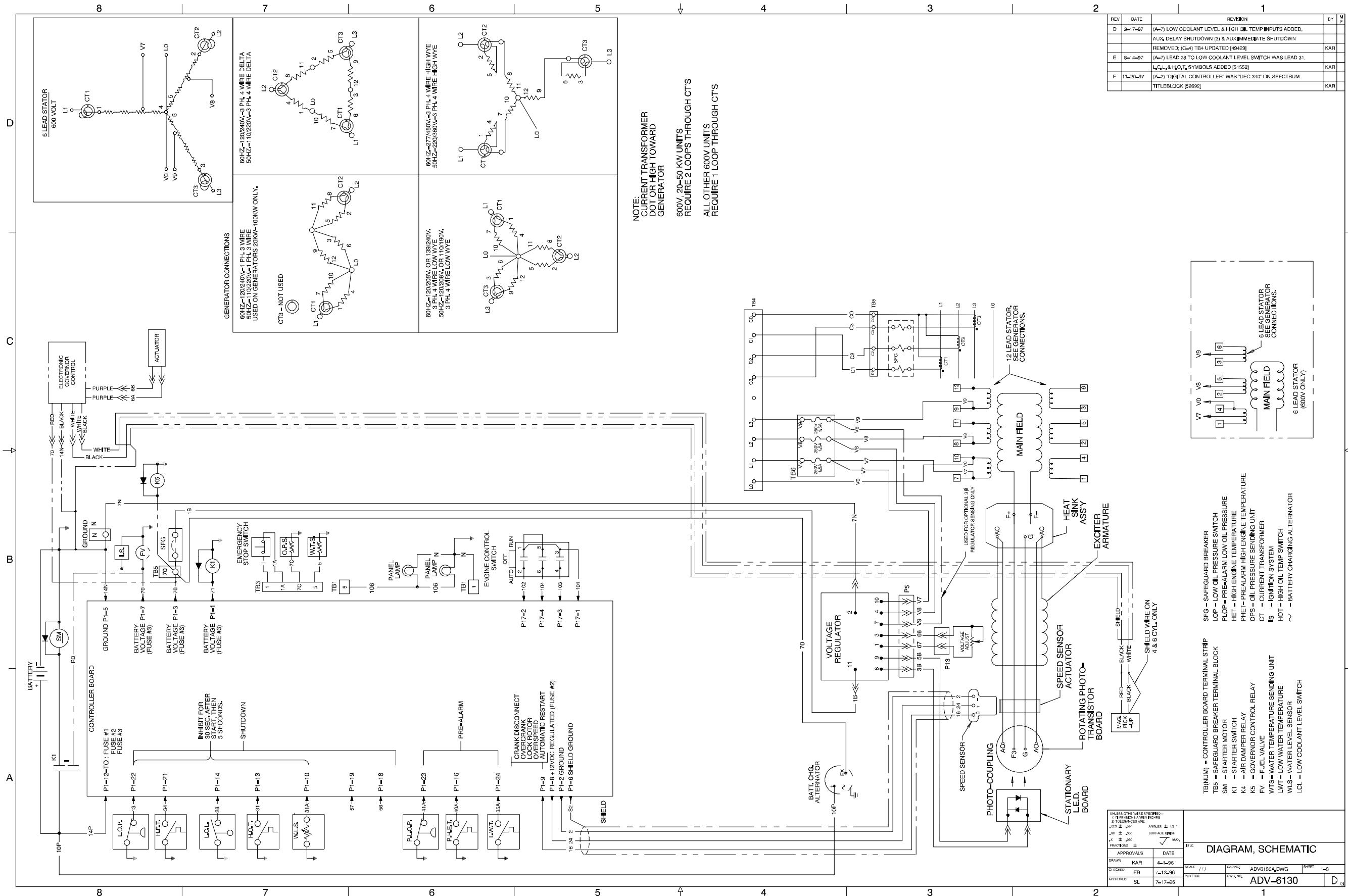
Decision-Maker™ 1 Controller, Expanded, Schematic Diagram, Sheet 1, ADV-6008-H



Decision-Maker™ 1 Controller, Standard without Engine Gauges, Schematic Diagram, Sheet 1, ADV-6010-E



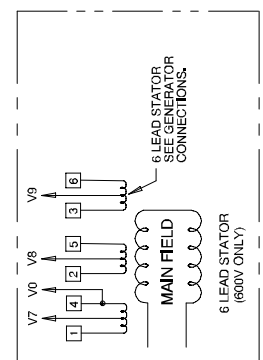
Decision-Maker™ 1 Controller, Standard without Engine Gauges, Schematic Diagram, Sheet 1, ADV-6010-F



NOTE:
CURRENT TRANSFORMER
DOT OR HIGH TOWARD
GENERATOR

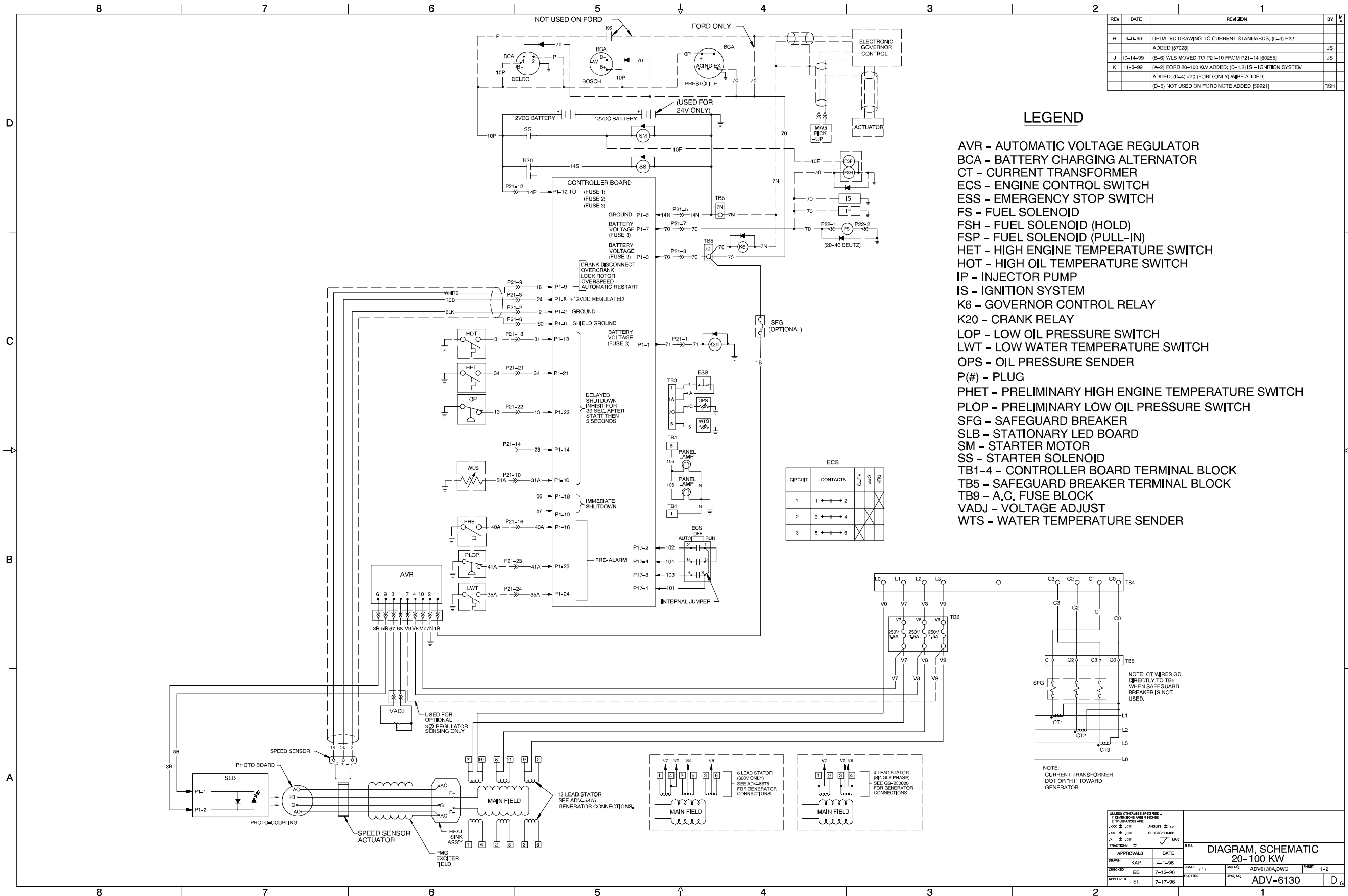
600V, 20-50 KW UNITS
REQUIRE 2 LOOPS THROUGH CTS

ALL OTHER 600V UNITS
REQUIRE 1 LOOP THROUGH CTS



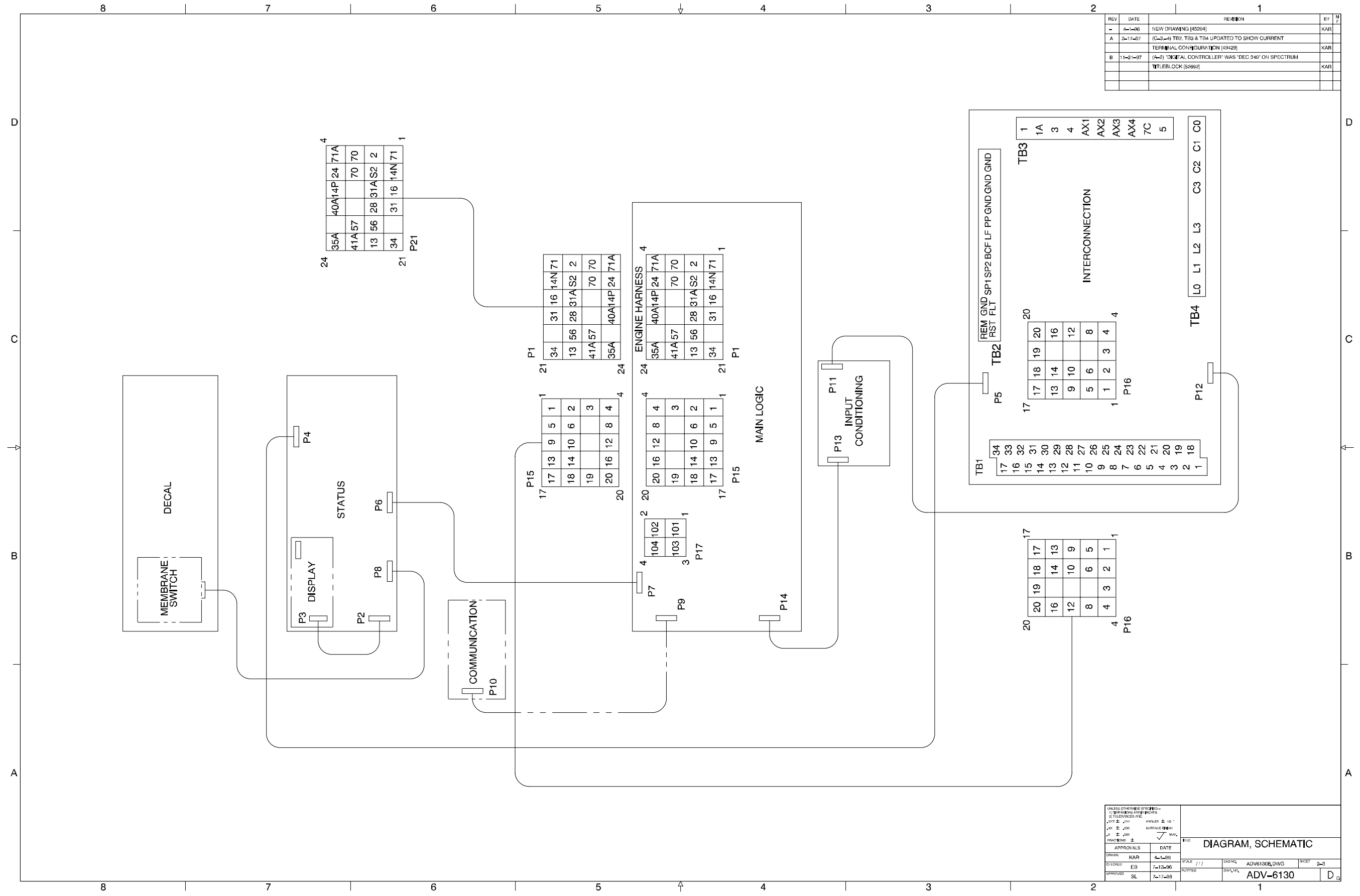
- TENNUM - CONTROLLER BOARD TERMINAL STRIP
- SFG - SAFEGUARD BREAKER
- LOP - LOW OIL PRESSURE SWITCH
- FLOP - PRE-ALARM LOW OIL PRESSURE
- HET - HIGH ENGINE TEMPERATURE
- PHET - PRE-ALARM HIGH-ENGINE TEMPERATURE
- OPS - OIL PRESSURE SENSING UNIT
- CT - CURRENT TRANSFORMER
- IS - IGNITION SYSTEM
- LWT - LOW WATER TEMPERATURE
- WLS - WATER LEVEL SENSOR
- LCL - LOW COOLANT LEVEL SWITCH
- SM - SAFEGUARD BREAKER TERMINAL BLOCK
- K1 - STARTER MOTOR
- K4 - AIR DAMPER RELAY
- FV - GOVERNOR CONTROL RELAY
- WTS - WATER TEMPERATURE SENSING UNIT
- WLS - WATER LEVEL SENSOR
- LCL - LOW COOLANT LEVEL SWITCH
- SFG - SAFEGUARD BREAKER
- LOP - LOW OIL PRESSURE SWITCH
- FLOP - PRE-ALARM LOW OIL PRESSURE
- HET - HIGH ENGINE TEMPERATURE
- PHET - PRE-ALARM HIGH-ENGINE TEMPERATURE
- OPS - OIL PRESSURE SENSING UNIT
- CT - CURRENT TRANSFORMER
- IS - IGNITION SYSTEM
- LWT - LOW WATER TEMPERATURE
- WLS - WATER LEVEL SENSOR
- LCL - LOW COOLANT LEVEL SWITCH

Digital Controller, Schematic Diagram, Sheet 1, ADV-6130A-F



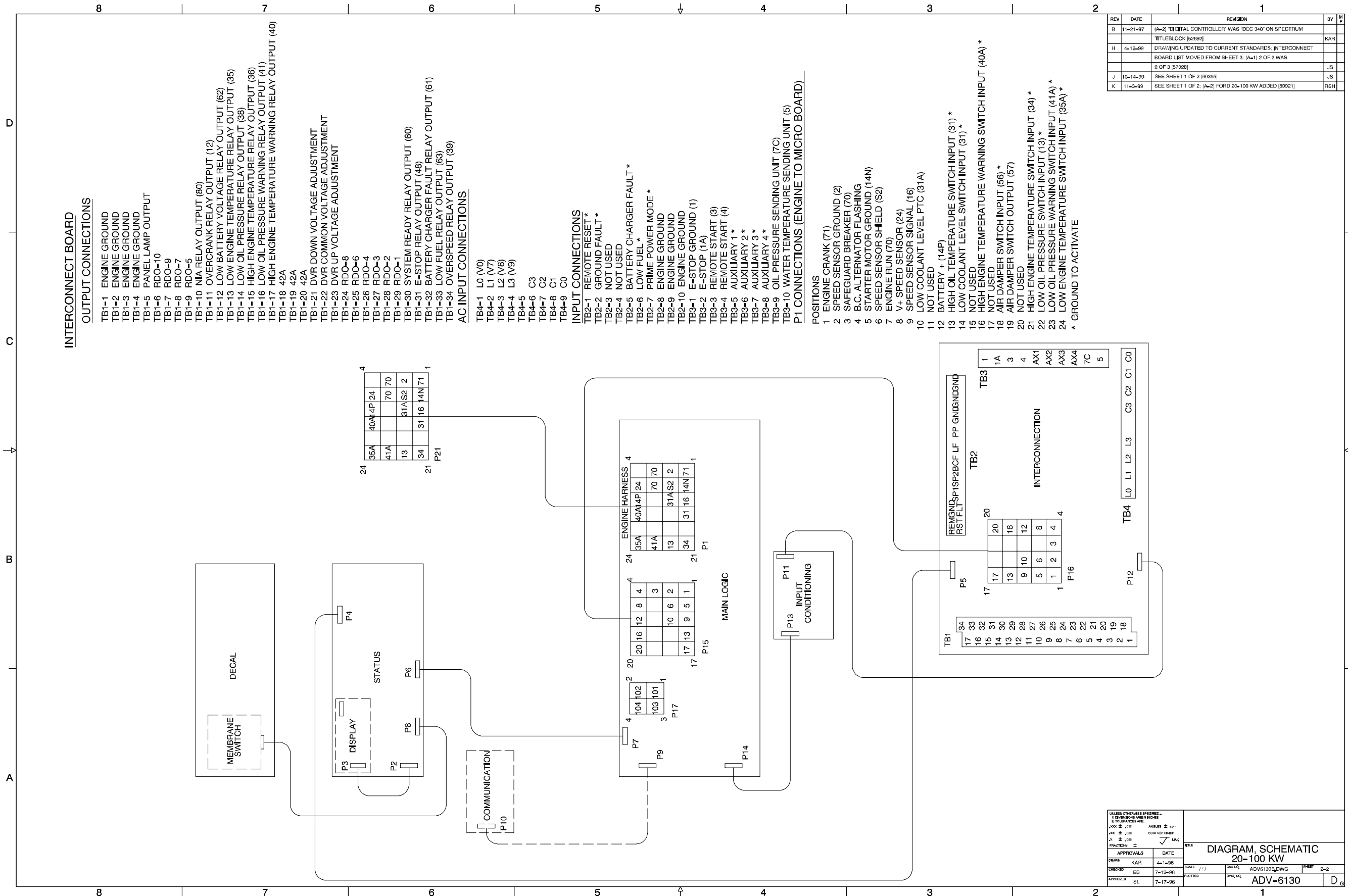
Digital Controller, Schematic Diagram, Sheet 1, ADV-6130A-K

REV	DATE	REVISION	BY	CHK
1	4-1-96	NEW DRAWING (45204)	KAR	
A	2-17-97	(C-3) TB2, TB3 & TB4 UPDATED TO SHOW CURRENT TERMINAL CONFIGURATION (49429)	KAR	
B	11-2-97	(A-2) "DIGITAL CONTROLLER" WAS "DEC 340" ON SPECTRUM TITLEBLOCK (52692)	KAR	



UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 10° X ± .000 SURFACE FINISH HATCHING ± MAX		TITLE DIAGRAM, SCHEMATIC	
APPROVALS DRAWN: KAR CHECKED: EB APPROVED: SL	DATE 7-1-95 7-12-96 7-17-98	SCALE 1/1	SHEET 2-3
PARTS ADV-6130		DWG. NO. ADV-6130	

Digital Controller, Schematic Diagram, Sheet 2, ADV-6130B-B



INTERCONNECT BOARD
OUTPUT CONNECTIONS

- TB1-1 ENGINE GROUND
- TB1-2 ENGINE GROUND
- TB1-3 ENGINE GROUND
- TB1-4 ENGINE GROUND
- TB1-5 PANEL LAMP OUTPUT
- TB1-6 RDO-10
- TB1-7 RDO-9
- TB1-8 RDO-7
- TB1-9 RDO-5
- TB1-10 NIA RELAY OUTPUT (80)
- TB1-11 OVERCRANK RELAY OUTPUT (12)
- TB1-12 LOW BATTERY VOLTAGE RELAY OUTPUT (35)
- TB1-13 LOW ENGINE TEMPERATURE RELAY OUTPUT (36)
- TB1-14 LOW OIL PRESSURE RELAY OUTPUT (38)
- TB1-15 HIGH ENGINE TEMPERATURE RELAY OUTPUT (41)
- TB1-16 LOW OIL PRESSURE WARNING RELAY OUTPUT (41)
- TB1-17 HIGH ENGINE TEMPERATURE WARNING RELAY OUTPUT (40)
- TB1-18 42A
- TB1-19 42A
- TB1-20 42A
- TB1-21 DVR DOWN VOLTAGE ADJUSTMENT
- TB1-22 DVR COMMON VOLTAGE ADJUSTMENT
- TB1-23 DVR UP VOLTAGE ADJUSTMENT
- TB1-24 RDO-8
- TB1-25 RDO-6
- TB1-26 RDO-4
- TB1-27 RDO-3
- TB1-28 RDO-2
- TB1-29 RDO-1
- TB1-30 SYSTEM READY RELAY OUTPUT (60)
- TB1-31 E-STOP RELAY OUTPUT (48)
- TB1-32 BATTERY CHARGER FAULT RELAY OUTPUT (61)
- TB1-33 LOW FUEL RELAY OUTPUT (63)
- TB1-34 OVERSPEED RELAY OUTPUT (39)

AC INPUT CONNECTIONS

- TB4-1 L0 (V0)
- TB4-2 L1 (V7)
- TB4-3 L2 (V8)
- TB4-4 L3 (V9)
- TB4-5
- TB4-6 C3
- TB4-7 C2
- TB4-8 C1
- TB4-9 C0

INPUT CONNECTIONS

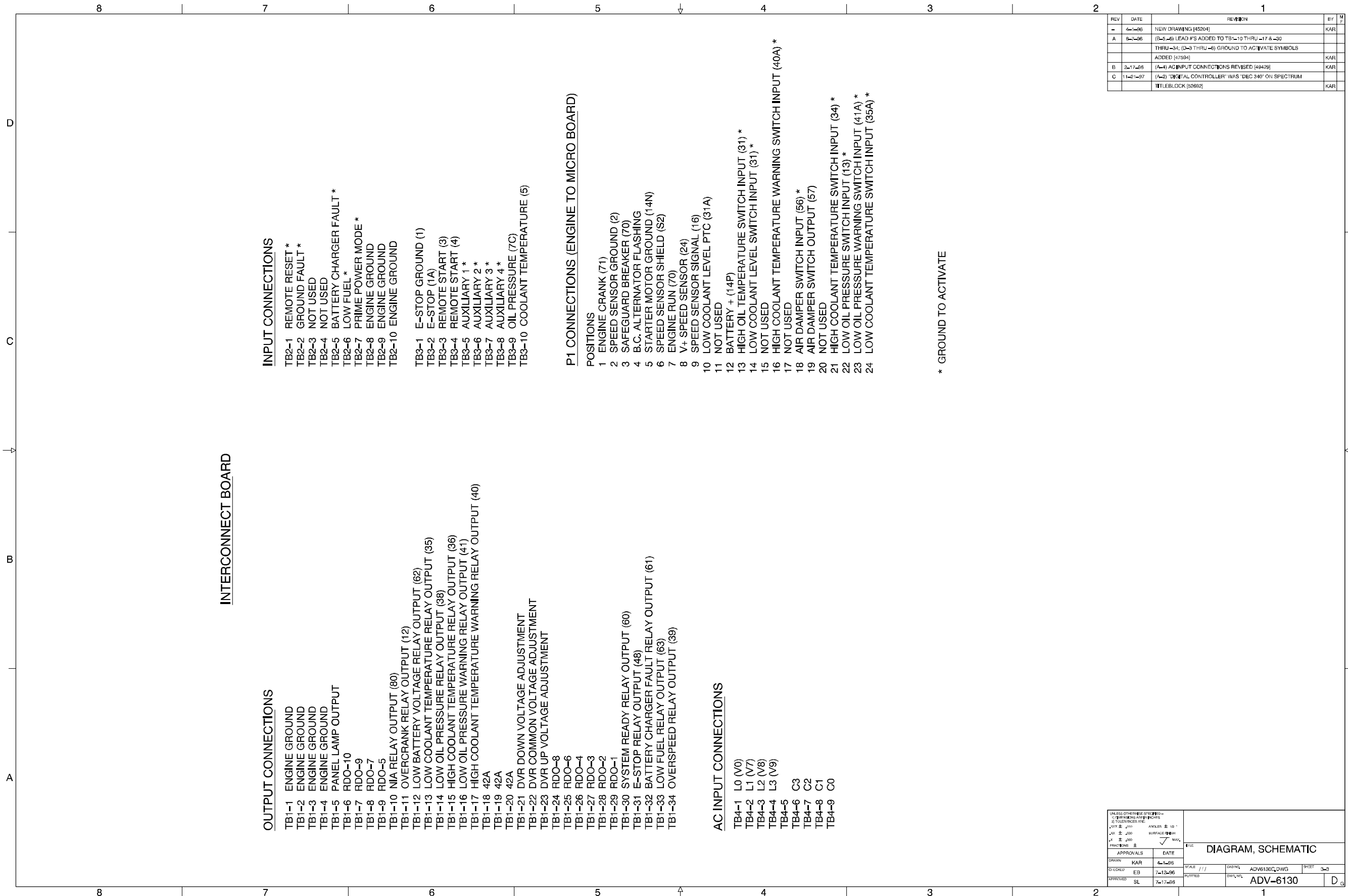
- TB2-1 REMOTE RESET *
- TB2-2 GROUND FAULT *
- TB2-3 NOT USED
- TB2-4 NOT USED
- TB2-5 BATTERY CHARGER FAULT *
- TB2-6 LOW FUEL *
- TB2-7 PRIME POWER MODE *
- TB2-8 ENGINE GROUND
- TB2-9 ENGINE GROUND
- TB2-10 ENGINE GROUND
- TB3-1 E-STOP GROUND (1)
- TB3-2 E-STOP (1A)
- TB3-3 REMOTE START (3)
- TB3-4 REMOTE START (4)
- TB3-5 AUXILIARY 1 *
- TB3-6 AUXILIARY 2 *
- TB3-7 AUXILIARY 3 *
- TB3-8 AUXILIARY 4 *
- TB3-9 OIL PRESSURE SENDING UNIT (7C)
- TB3-10 WATER TEMPERATURE SENDING UNIT (5)

P1 CONNECTIONS (ENGINE TO MICRO BOARD)

- POSITIONS**
- 1 ENGINE CRANK (71)
 - 2 SPEED SENSOR GROUND (2)
 - 3 SAFEGUARD BREAKER (70)
 - 4 B.C. ALTERNATOR FLASHING
 - 5 STARTER MOTOR GROUND (14N)
 - 6 SPEED SENSOR SHIELD (S2)
 - 7 ENGINE RUN (70)
 - 8 V+ SPEED SENSOR (24)
 - 9 SPEED SENSOR SIGNAL (16)
 - 10 LOW COOLANT LEVEL PTC (31A)
 - 11 NOT USED
 - 12 BATTERY + (14P)
 - 13 HIGH OIL TEMPERATURE SWITCH INPUT (31) *
 - 14 LOW COOLANT LEVEL SWITCH INPUT (31) *
 - 15 NOT USED
 - 16 HIGH ENGINE TEMPERATURE WARNING SWITCH INPUT (40A) *
 - 17 NOT USED
 - 18 AIR DAMPER SWITCH INPUT (56) *
 - 19 AIR DAMPER SWITCH OUTPUT (57)
 - 20 NOT USED
 - 21 HIGH ENGINE TEMPERATURE SWITCH INPUT (34) *
 - 22 LOW OIL PRESSURE SWITCH INPUT (13) *
 - 23 LOW OIL PRESSURE WARNING SWITCH INPUT (41A) *
 - 24 LOW ENGINE TEMPERATURE SWITCH INPUT (35A) *
- * GROUND TO ACTIVATE

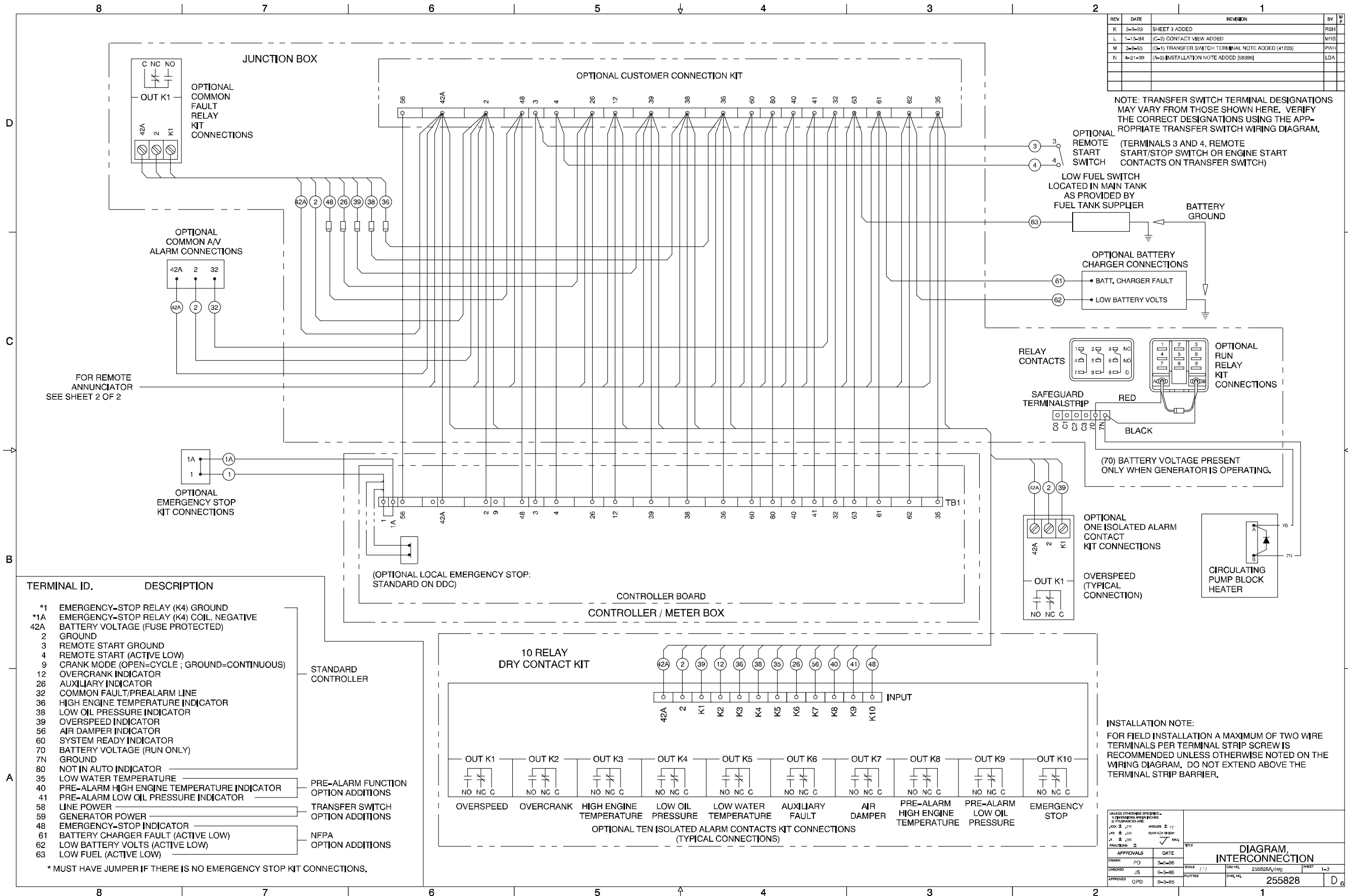
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS ARE: XXX ± .010 ANGLES ± 10° XXX ± .010 SURFACE FINISH XXX ± .010		TITLE DIAGRAM, SCHEMATIC 20-100 KW	
APPROVALS DRAWN: KAR CHECKED: EB APPROVED: SL	DATE 1-1-96 7-12-96 7-17-96	SCALE ///	DWG. NO. ADV6130B.DWG
SHEET 3-2		D ADV-6130	

Digital Controller, Schematic Diagram, Sheet 2, ADV-6130B-K



REV	DATE	REVISION	BY	FILE
-	4-1-86	NEW DRAWING (45204)	KAR	
A	8-2-86	(3-5-86) LEAD #S ADDED TO TB1-10 THRU -17 & -30 THRU -34; (3-3 THRU -6) GROUND TO ACTIVATE SYMBOLS	KAR	
		ADDED (47894)	KAR	
B	2-17-86	(1-4) AC INPUT CONNECTIONS REVISED (49428)	KAR	
C	11-2-87	(1-2) DIGITAL CONTROLLER WAS DEC 340 ON SPECTRUM	KAR	
		TITLEBLOCK (52662)	KAR	

UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ± .010 ANGLES ± 10° DECIMALS ± .005 SURFACE FINISH HORIZONTALS ± MAX		DIAGRAM, SCHEMATIC	
APPROVALS	DATE	SCALE	SHEET
DRAWN KAR	4-1-86	1/1	3-3
CHECKED EB	7-12-86	DRAWN ADV6130C.DWG	
APPROVED SL	7-17-88	PLOTTED ADV-6130	D



REV	DATE	REVISION	BY
K	3-9-83	SHEET 3 ADDED	PSH
L	1-13-84	(C-2) CONTACT VIEW ADDED	MRS
M	3-9-85	(D-1) TRANSFER SWITCH TERMINAL NOTE ADDED (41205)	PWH
N	4-21-89	(A-2) INSTALLATION NOTE ADDED (38398)	LDA

NOTE: TRANSFER SWITCH TERMINAL DESIGNATIONS MAY VARY FROM THOSE SHOWN HERE. VERIFY THE CORRECT DESIGNATIONS USING THE APPROPRIATE TRANSFER SWITCH WIRING DIAGRAM.

TERMINAL ID.	DESCRIPTION
*1	EMERGENCY-STOP RELAY (K4) GROUND
*1A	EMERGENCY-STOP RELAY (K4) COIL, NEGATIVE
42A	BATTERY VOLTAGE (FUSE PROTECTED)
2	GROUND
3	REMOTE START GROUND
4	REMOTE START (ACTIVE LOW)
9	CRANK MODE (OPEN=CYCLE; GROUND=CONTINUOUS)
12	OVERCRANK INDICATOR
26	AUXILIARY INDICATOR
32	COMMON FAULT/PREALARM LINE
36	HIGH ENGINE TEMPERATURE INDICATOR
38	LOW OIL PRESSURE INDICATOR
39	OVERSPEED INDICATOR
56	AIR DAMPER INDICATOR
60	SYSTEM READY INDICATOR
70	BATTERY VOLTAGE (RUN ONLY)
7N	GROUND
80	NOT IN AUTO INDICATOR
35	LOW WATER TEMPERATURE
40	PRE-ALARM HIGH ENGINE TEMPERATURE INDICATOR
41	PRE-ALARM LOW OIL PRESSURE INDICATOR
58	LINE POWER
59	GENERATOR POWER
48	EMERGENCY-STOP INDICATOR
61	BATTERY CHARGER FAULT (ACTIVE LOW)
62	LOW BATTERY VOLTS (ACTIVE LOW)
63	LOW FUEL (ACTIVE LOW)

STANDARD CONTROLLER
 PRE-ALARM FUNCTION OPTION ADDITIONS
 TRANSFER SWITCH OPTION ADDITIONS
 NFPA OPTION ADDITIONS

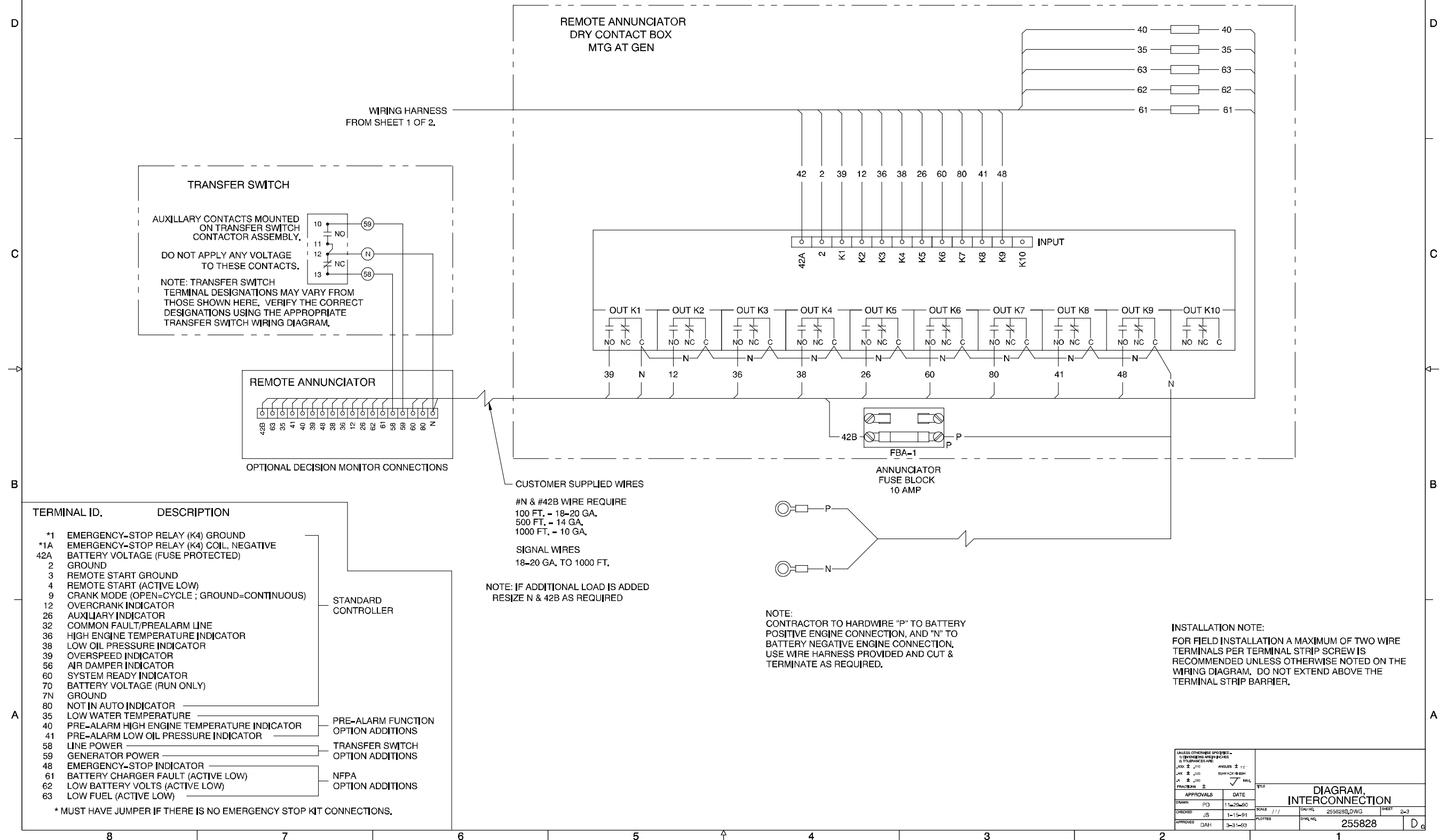
* MUST HAVE JUMPER IF THERE IS NO EMERGENCY STOP KIT CONNECTIONS.

INSTALLATION NOTE:
 FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE TERMINALS PER TERMINAL STRIP SCREW IS RECOMMENDED UNLESS OTHERWISE NOTED ON THE WIRING DIAGRAM. DO NOT EXTEND ABOVE THE TERMINAL STRIP BARRIER.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES ANGLES ± 10° SURFACE FINISH UNLESS OTHERWISE SPECIFIED MAX. ALLOWABLE VARIATION		DATE		DRAWN	
APPROVALS	DATE	SCALE	TITLE	SHEET	OF
DRAWN: PJD	3-3-85	SCALE: 1/1	DIAGRAM, INTERCONNECTION	1-3	
CHECKED: JS	3-3-85	PLOTTED	255828A (REV)		
APPROVED: GPD	3-3-85		255828		D

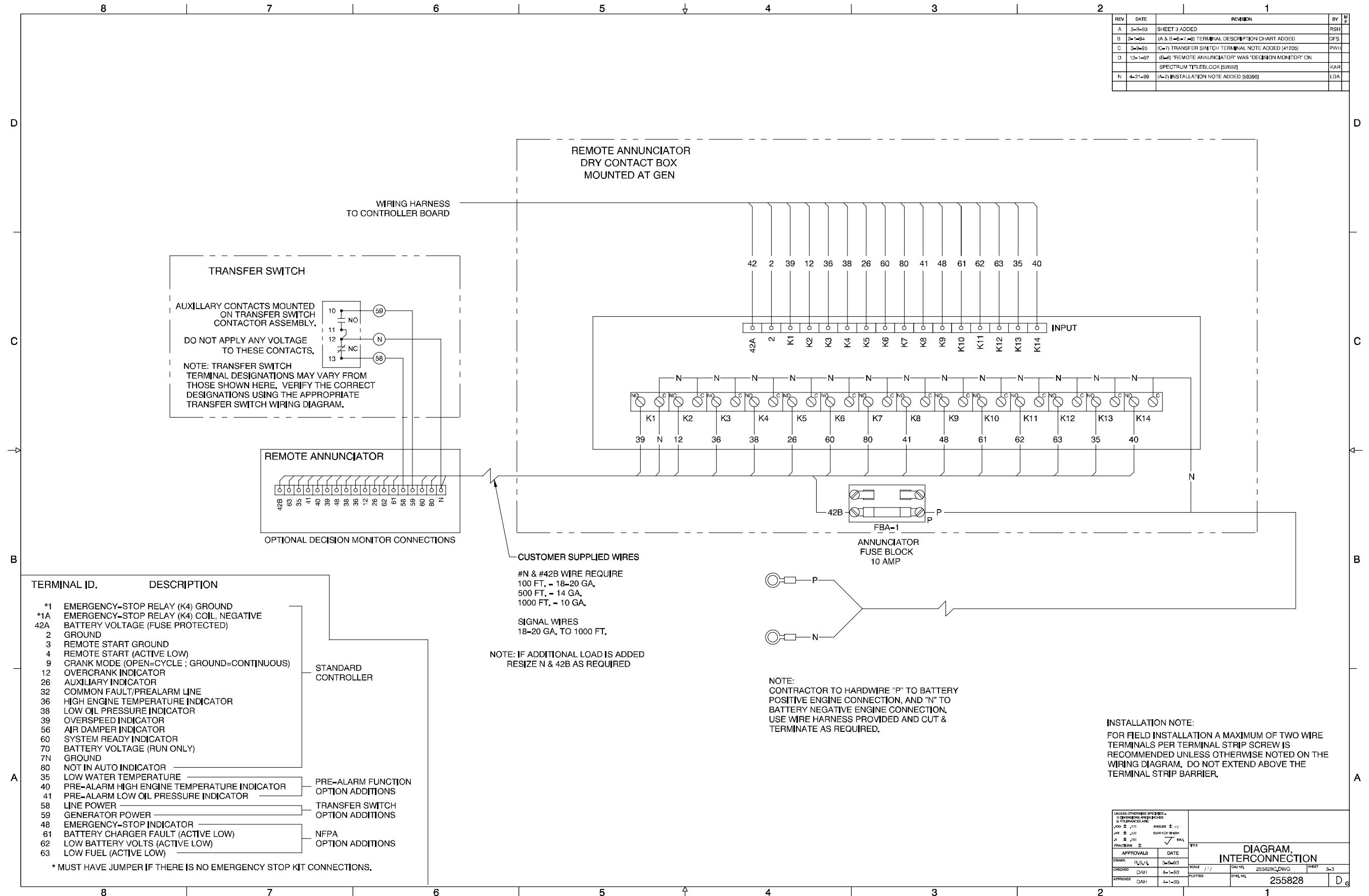
Microprocessor Controller, Accessory Connections, Accessories, 255828A-N

REV	DATE	REVISION	BY	CHK
J	3-9-93	SHEET 3 ADDED	FSH	
K	2-1-94	(A & B - 6-7-8) TERMINAL DESCRIPTION CHART ADDED	DPS	
L	3-9-95	(C-7) TRANSFER SWITCH TERMINAL NOTE ADDED [41205]	PWH	
M	12-1-97	(B-7) 'REMOTE ANNUNCIATOR' WAS 'DECISION MONITOR' ON SPECTRUM TITLEBLOCK [52692]	KAR	
N	4-21-99	(A-2) INSTALLATION NOTE ADDED [58395]	LDA	

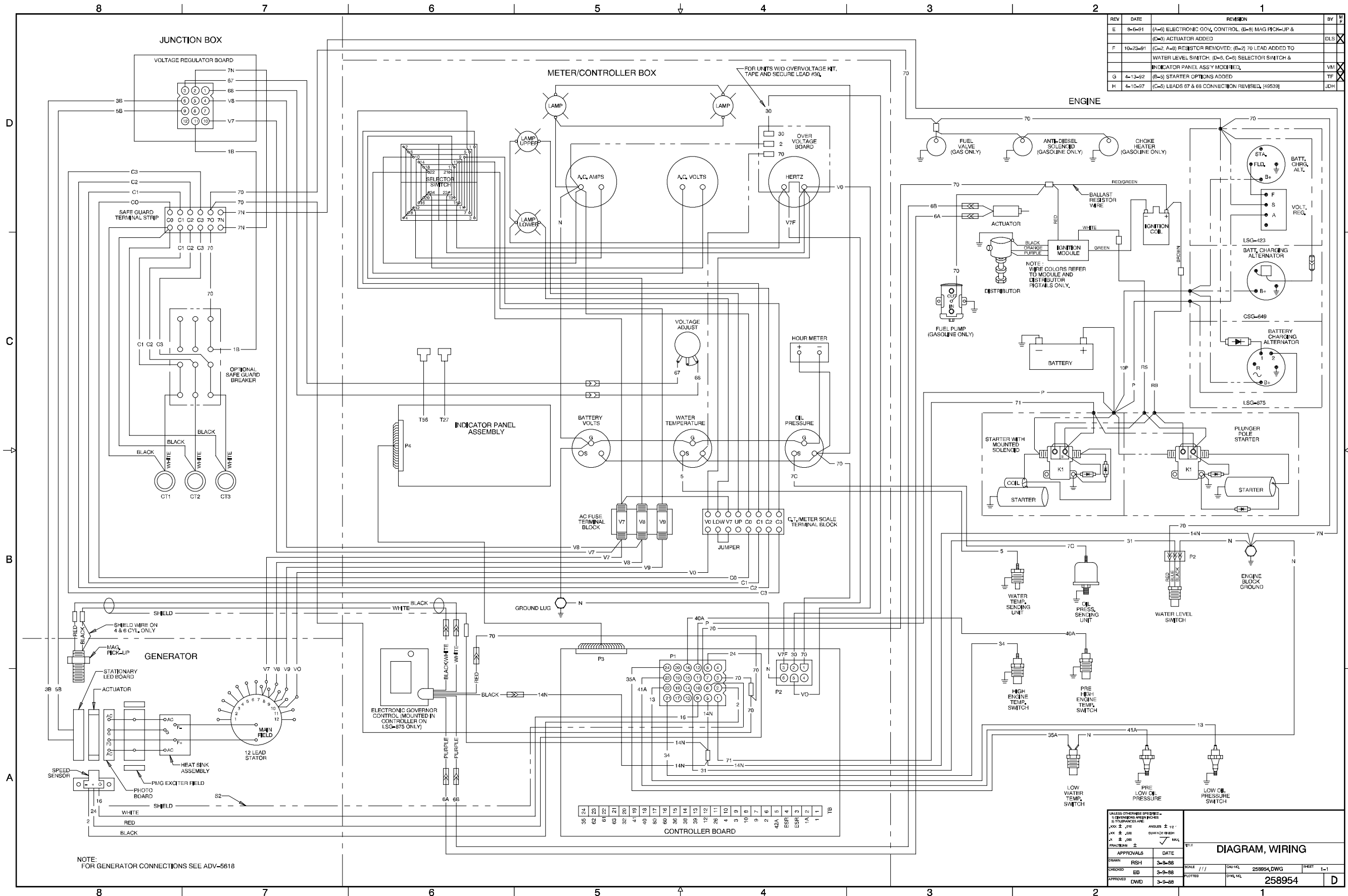


Microprocessor Controller, Accessory Connections, Remote Annunciator Kit, Sheet 1, 255828B-N

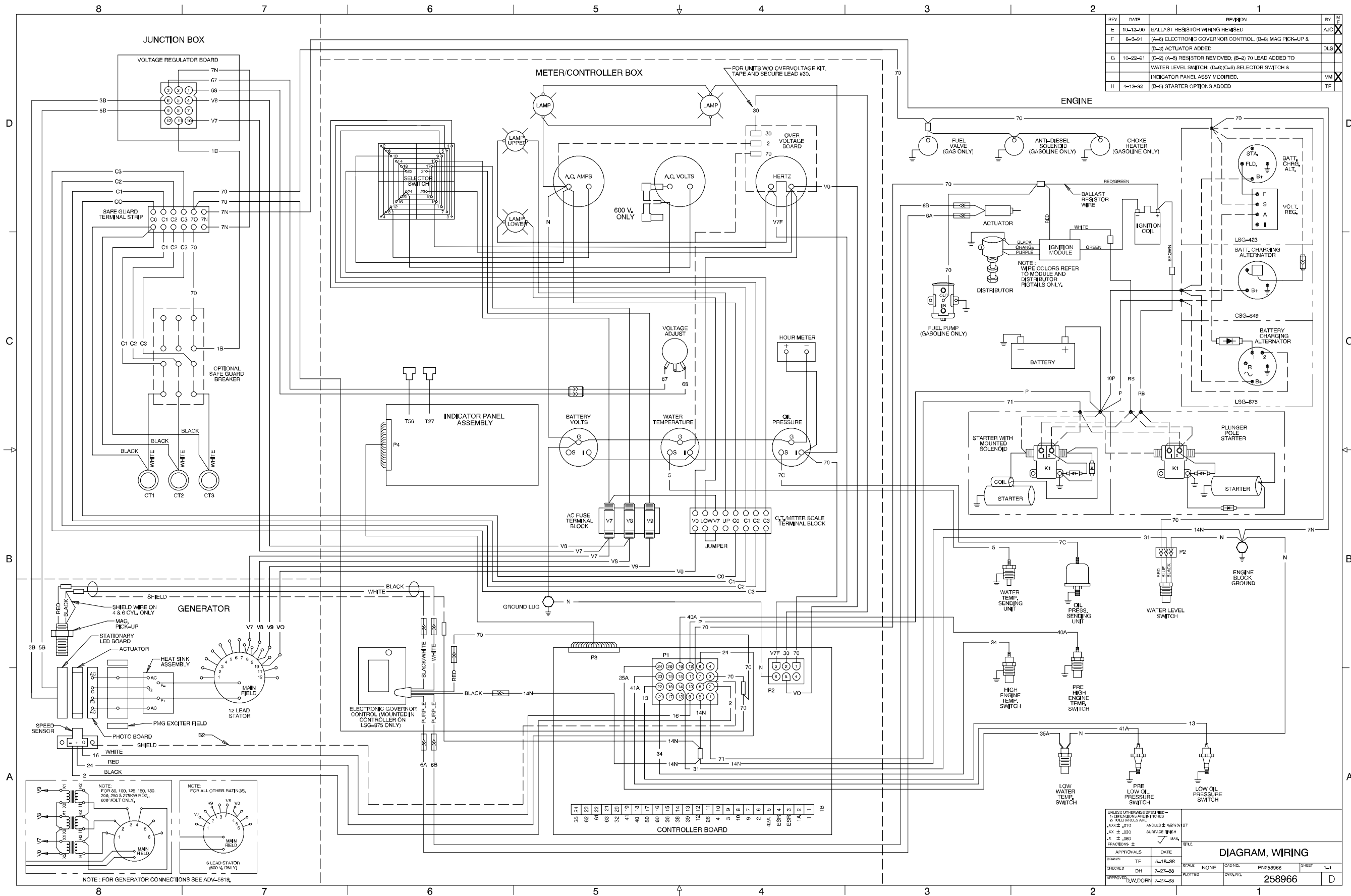
REV	DATE	REVISION	BY
A	3-9-93	SHEET 3 ADDED	PSH
B	3-1-94	(A & B) (6-7) (8) TERMINAL DESCRIPTION CHART ADDED	DPS
C	3-9-95	(C-7) TRANSFER SWITCH TERMINAL NOTE ADDED (41205)	PWH
D	12-1-97	(B-6) 'REMOTE ANNUNCIATOR' WAS 'DECISION MONITOR' ON SPECTRUM TITLEBLOCK (52692)	KAR
N	4-21-99	(A-2) INSTALLATION NOTE ADDED (58396)	LDA



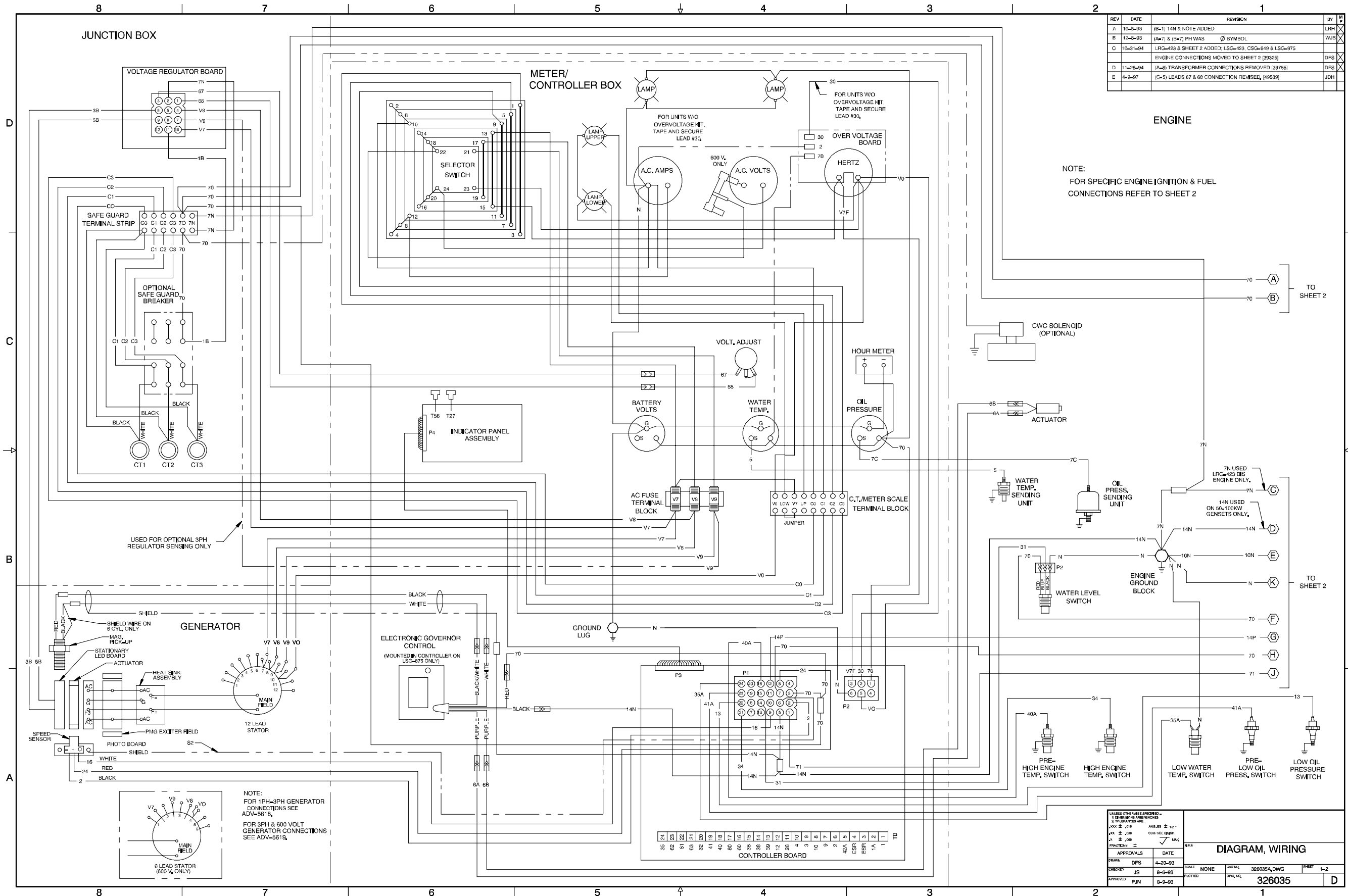
Microprocessor Controller, Accessory Connections, Remote Annunciator Kit, Sheet 2, 255828C-N



Microprocessor Controller, Point-to-Point Wiring Diagram, 1 Phase/3 Phase, 258954-H



Microprocessor Controller, Point-to-Point Wiring Diagram, 3 Phase/600 Volt, 258966-H

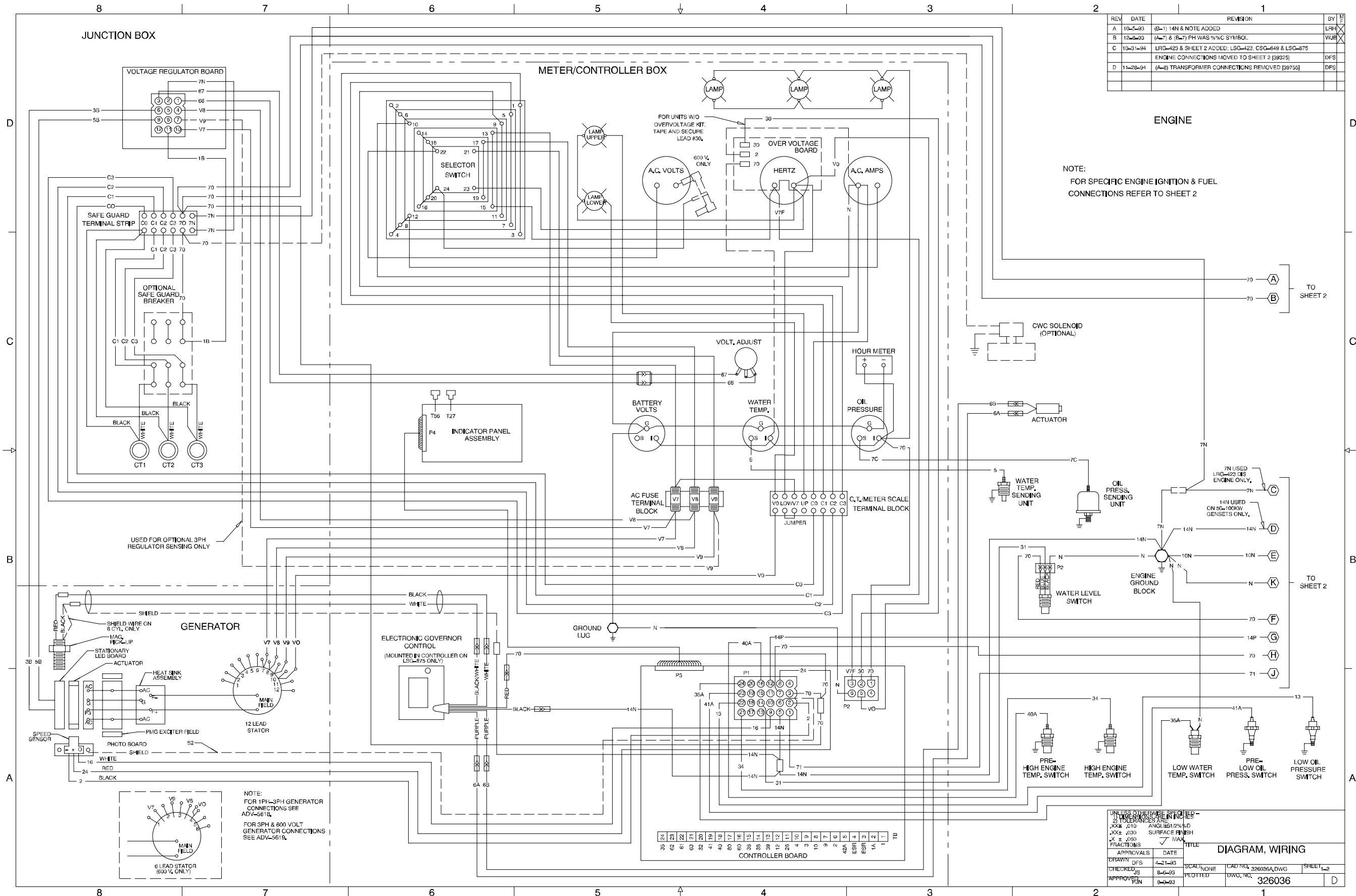


REV	DATE	REVISION	BY
A	10-5-93	(B-1) 14N & NOTE ADDED	LRF
B	12-8-93	(A-7) & (B-7) PH WAS \emptyset SYMBOL	WJE
C	10-31-94	LRC-423 & SHEET 2 ADDED, LSC-875, CSB-849 & LSC-875	DFS
D	11-28-94	(A-8) TRANSFORMER CONNECTIONS REMOVED (39758)	DFS
E	4-3-97	(C-5) LEADS 67 & 68 CONNECTION REVISED (49538)	JDH

NOTE:
FOR SPECIFIC ENGINE IGNITION & FUEL
CONNECTIONS REFER TO SHEET 2

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS ARE IN MILLIMETERS		TYPICAL	
1/16" ± .005	3/32" ± .005	1/8" ± .005	3/16" ± .005
1/4" ± .005	3/8" ± .005	1/2" ± .005	3/4" ± .005
1" ± .005	2" ± .005	3" ± .005	4" ± .005
APPROVALS	DATE	SCALE	SHEET
DFS	4-20-93	NONE	1-2
JS	8-6-93		
PJN	8-9-93		
DRAWN		DATE	SCALE
DFS		4-20-93	NONE
CHECKED		DATE	SCALE
JS		8-6-93	NONE
APPROVED		DATE	SCALE
PJN		8-9-93	NONE
TITLED		DATE	SCALE
DIAGRAM, WIRING		DATE	SCALE
326035		DATE	SCALE

Microprocessor Controller, Point-to-Point Wiring Diagram, Standard, Sheet 1, 326035A-E

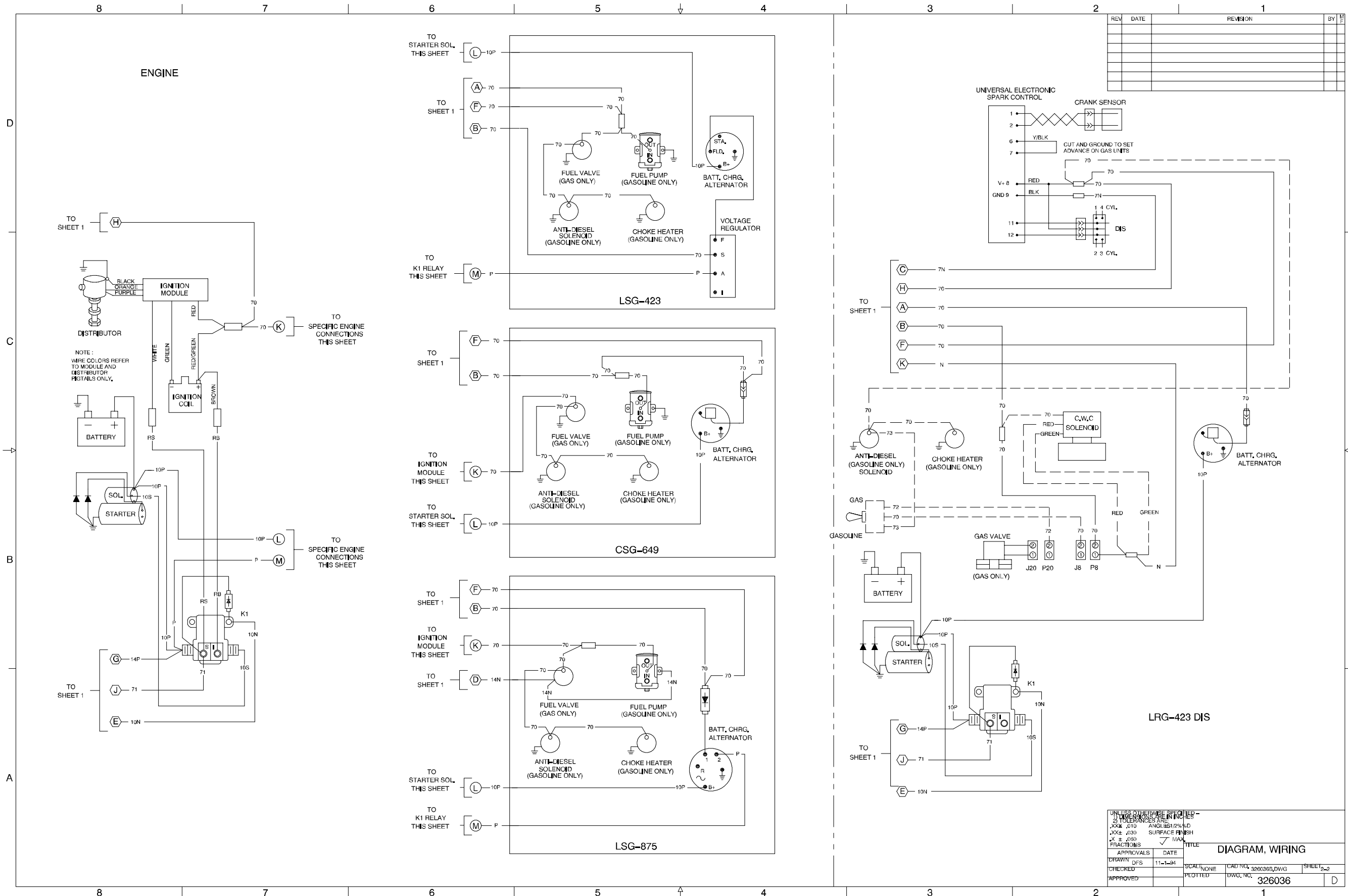


REV	DATE	REVISION	BY
A	10-5-93	(B-1) 14N & NOTE ADDED	LRH
B	12-2-93	(A-7) & (B-7) PH WAS %C SYMBOL.	WJB
C	10-31-94	LRC-423 & SHEET 2 ADDED; LSC-423, CSC-649 & LSC-675 ENGINE CONNECTIONS MOVED TO SHEET 2 [89325]	DFS
D	11-28-94	(A-8) TRANSFORMER CONNECTIONS REMOVED [89756]	DFS

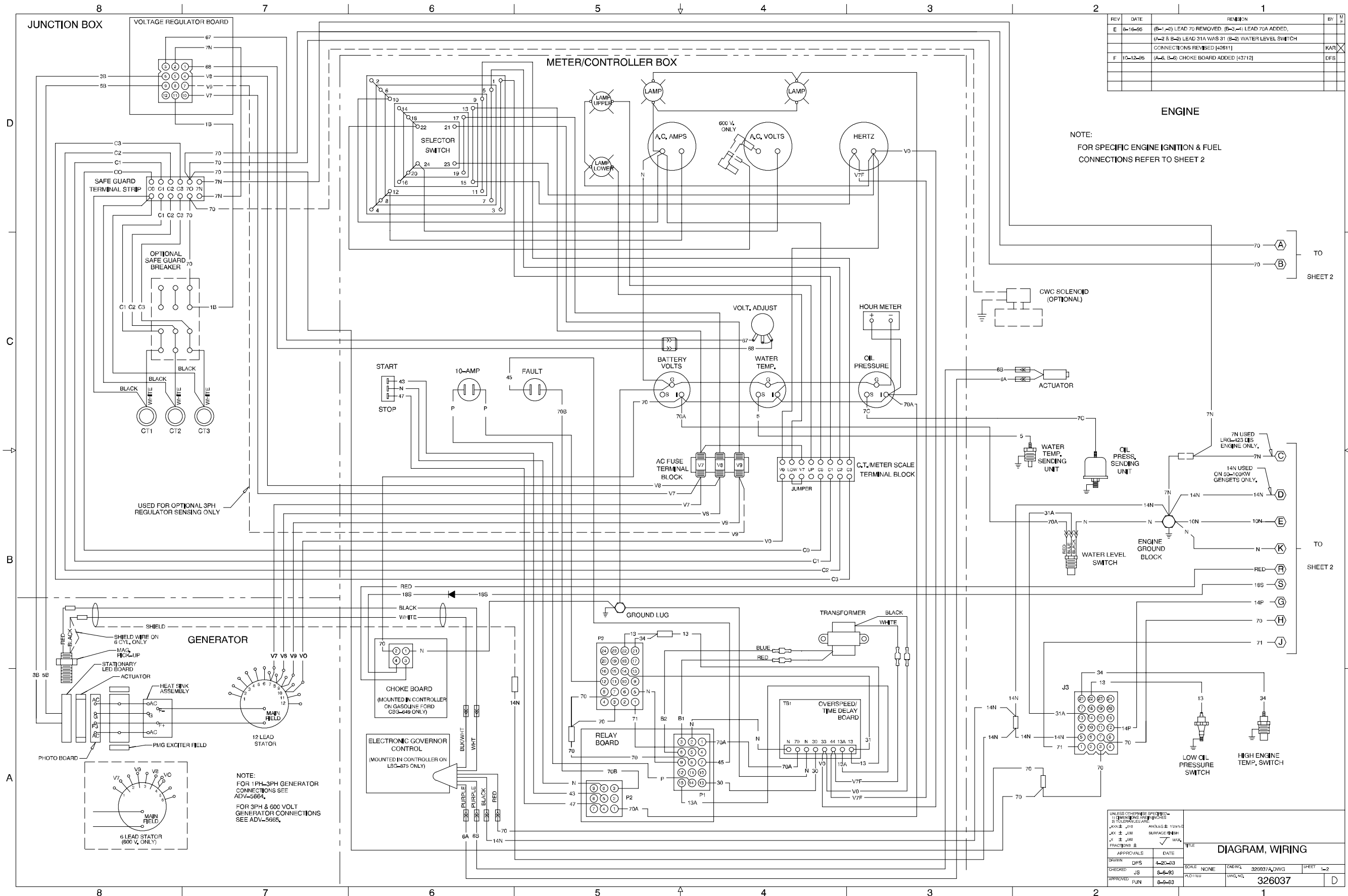
NOTE:
FOR SPECIFIC ENGINE IGNITION & FUEL
CONNECTIONS REFER TO SHEET 2

UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES		TITLE	
XX	.010	ANGLES 12% R	DIAGRAM, WIRING
XX	.030	SURFACE FINISH	
XX	.050	MAX	
XX	FRACTIONS		
APPROVALS	DATE	SCALE	CAD NO.
DRAWN DFS	4-21-93	NONE	326036A.DWG
CHECKED JS	8-6-93		
APPROVED PJN	8-6-93		
		DWG. NO.	SHEET
		326036	1 of 2

Microprocessor Controller, Point-to-Point Wiring Diagram, Oversize, Sheet 1, 326036A-D



Microprocessor Controller, Point-to-Point Wiring Diagram, Oversize, Sheet 2, 326036B-

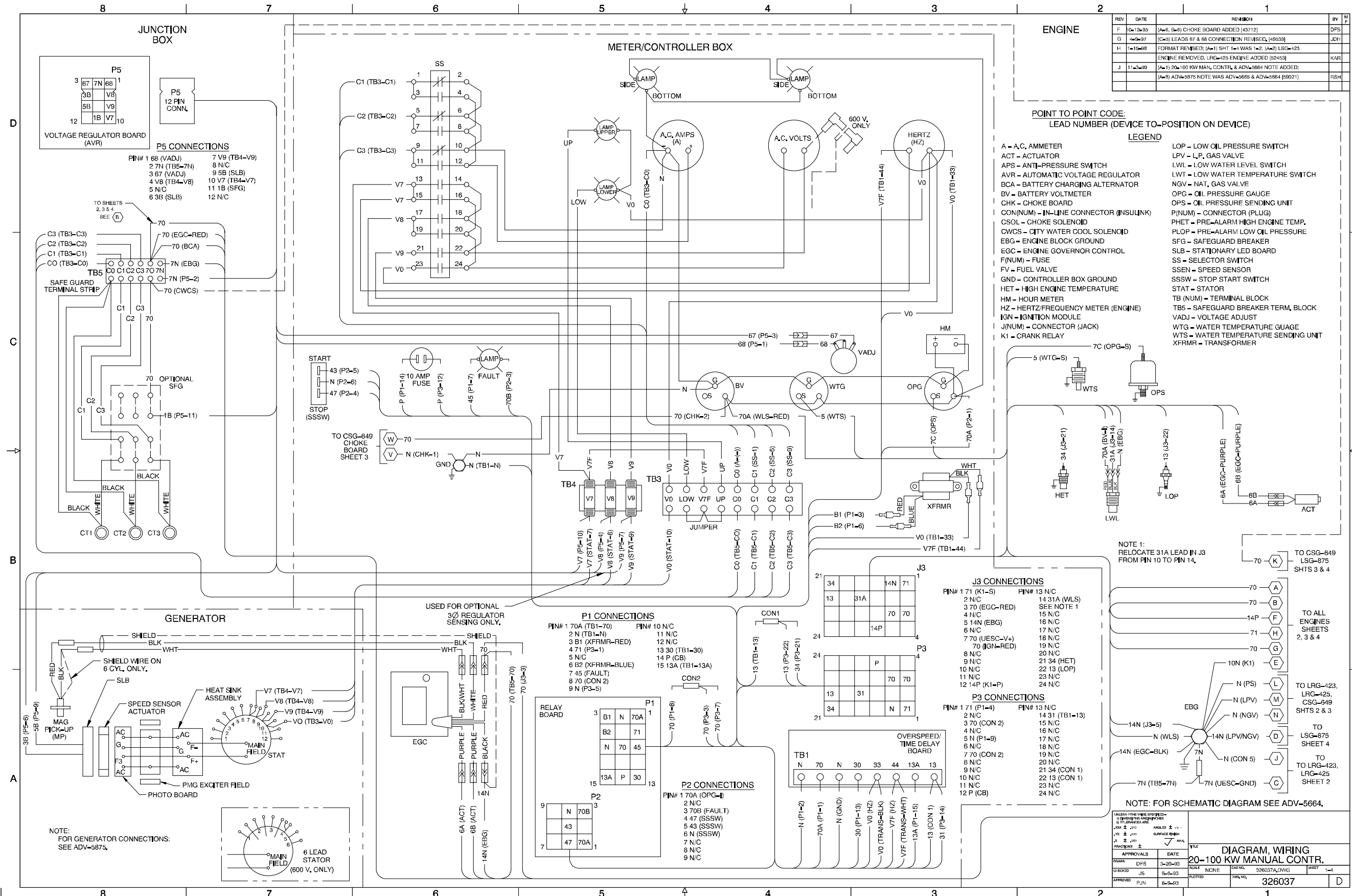


REV	DATE	REVISION	BY	CHK
E	8-16-85	(B-1,4) LEAD 70 REMOVED, (B-2,4) LEAD 70A ADDED, (A-2 & B-2) LEAD 31A WAS 31 (B-2) WATER LEVEL SWITCH CONNECTIONS REVERSED (42611)	KAR	X
F	10-12-85	(A-6, B-6) CHOKE BOARD ADDED (43712)	DFS	

NOTE:
FOR SPECIFIC ENGINE IGNITION & FUEL
CONNECTIONS REFER TO SHEET 2

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES FRACTIONS ± .005 DECIMALS ± .0005 SURFACE FINISH FRACTIONS ± .0005 DECIMALS ± .0005		SCALE: NONE		DATE: 4-20-83		SHEET: L-2	
APPROVALS:	DATE:	TITLE: DIAGRAM, WIRING		DRAWN: JS		CHECKED: DFS	
APPROVED: RJN	8-8-83	PART NO: 326037/A/DWG		SHEET: L-2		D	

Manual Controller, Point-to-Point Wiring Diagram, Sheet 1, 326037A-F



REV	DATE	REVISION	BY	CHK
F	04-13-95	(A=6, B=6) CHOKE BOARD ADDED (43712)	DFS	
G	04-09-97	(C=5) LEADS 87 & 88 CONNECTION REVISED (49539)	JDH	
H	11-15-98	FORMAT REVISED; (A=1) SHT 1= WAS 1=2; (A=2) LSG=123		
J	11-23-99	ENGINE REMOVED; LRG=425 ENGINE ADDED (2453)	KAR	
		(A=1) 20/100 KW MAN. CONTR. & ADV-5664 NOTE ADDED;		
		(A=2) ADV-5875 NOTE WAS ADV-5665 & ADV-5664 (5921)	RSH	

POINT TO POINT CODE:
LEAD NUMBER (DEVICE TO-POSITION ON DEVICE)

- LEGEND**
- A - A.C. AMMETER
 - ACT - ACTUATOR
 - APS - ANTI-PRESSURE SWITCH
 - AVR - AUTOMATIC VOLTAGE REGULATOR
 - BCA - BATTERY CHARGING ALTERNATOR
 - BV - BATTERY VOLTMETER
 - CHK - CHOKE BOARD
 - CON(NUM) - IN-LINE CONNECTOR (INSULINK)
 - CSOL - CHOKE SOLENOID
 - CWCS - CITY WATER COOL SOLENOID
 - EBG - ENGINE BLOCK GROUND
 - EGC - ENGINE GOVERNOR CONTROL
 - F(NUM) - FUSE
 - FV - FUEL VALVE
 - GND - CONTROLLER BOX GROUND
 - HET - HIGH ENGINE TEMPERATURE
 - HM - HOUR METER
 - HZ - HERTZ/FREQUENCY METER (ENGINE)
 - IGN - IGNITION MODULE
 - J(NUM) - CONNECTOR (JACK)
 - K1 - CRANK RELAY
 - LOP - LOW OIL PRESSURE SWITCH
 - LPV - L.P. GAS VALVE
 - LWL - LOW WATER LEVEL SWITCH
 - LWT - LOW WATER TEMPERATURE SWITCH
 - NGV - NAT. GAS VALVE
 - OPG - OIL PRESSURE GAUGE
 - OPS - OIL PRESSURE SENDING UNIT
 - P(NUM) - CONNECTOR (PLUG)
 - PHET - PRE-ALARM HIGH ENGINE TEMP.
 - PLOP - PRE-ALARM LOW OIL PRESSURE
 - SFG - SAFEGUARD BREAKER
 - SLB - STATIONARY LED BOARD
 - SS - SELECTOR SWITCH
 - SSSW - STOP START SWITCH
 - STAT - STATOR
 - TB (NUM) - TERMINAL BLOCK
 - TBS - SAFEGUARD BREAKER TERM. BLOCK
 - VADJ - VOLTAGE ADJUST
 - WTG - WATER TEMPERATURE GAUGE
 - WTS - WATER TEMPERATURE SENDING UNIT
 - XFRMR - TRANSFORMER

NOTE 1:
RELOCATE 31A LEAD IN J3
FROM PIN 10 TO PIN 14.

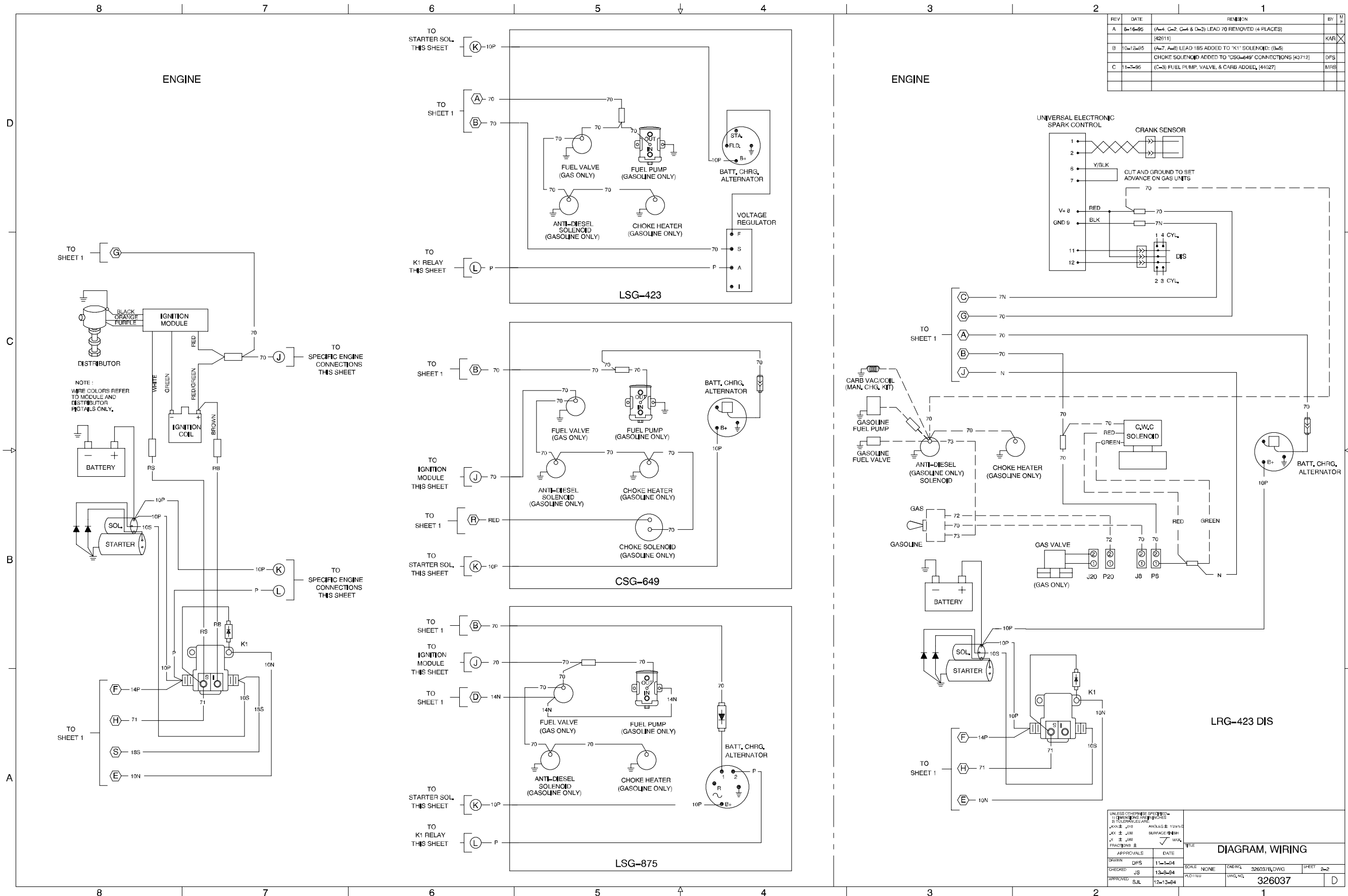
NOTE: FOR SCHEMATIC DIAGRAM SEE ADV-5664.

APPROVALS	DATE	TITLE
DESIGNED: DFS	3-20-93	DIAGRAM, WIRING 20-100 KW MANUAL CONTR.
CHECKED: JS	5-2-93	
APPROVED: PJN	8-9-93	

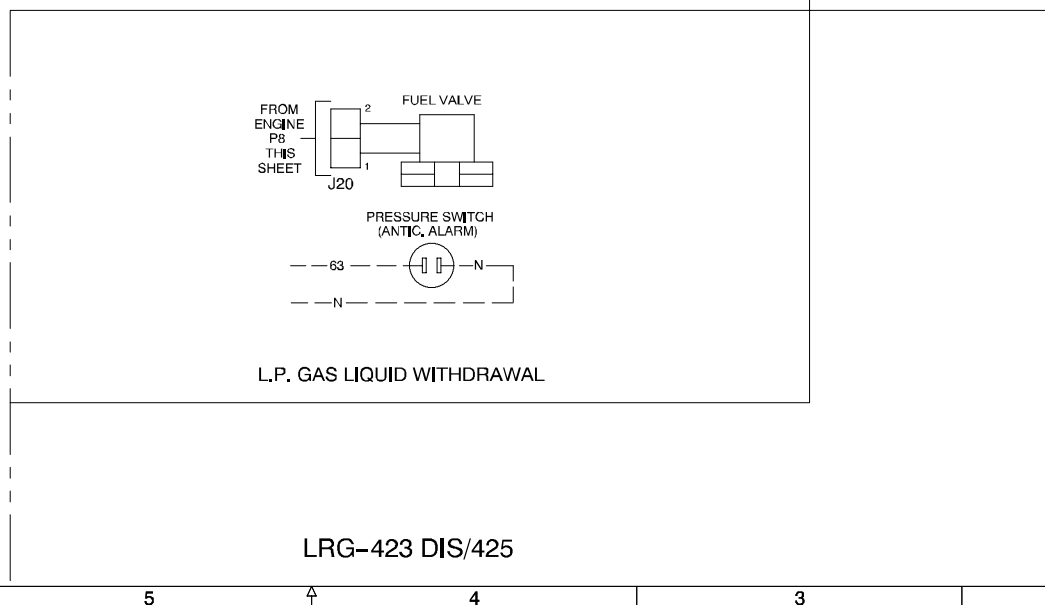
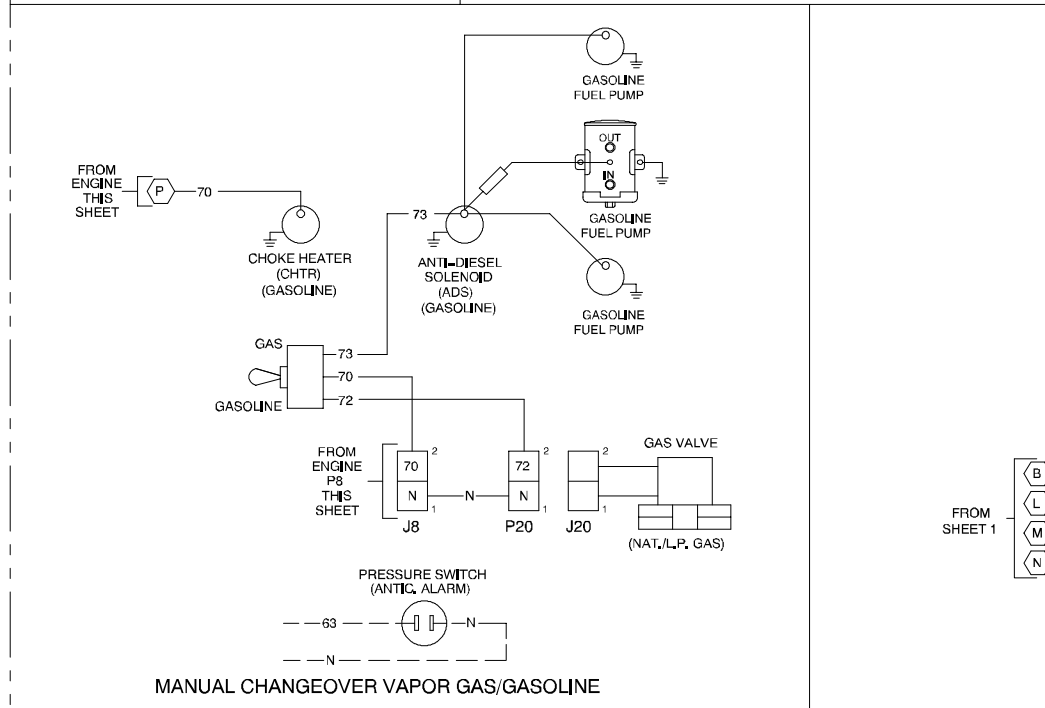
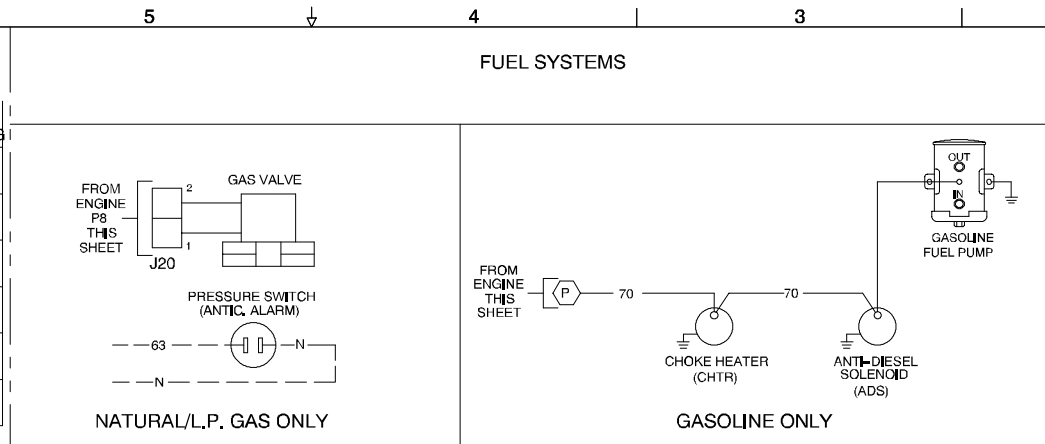
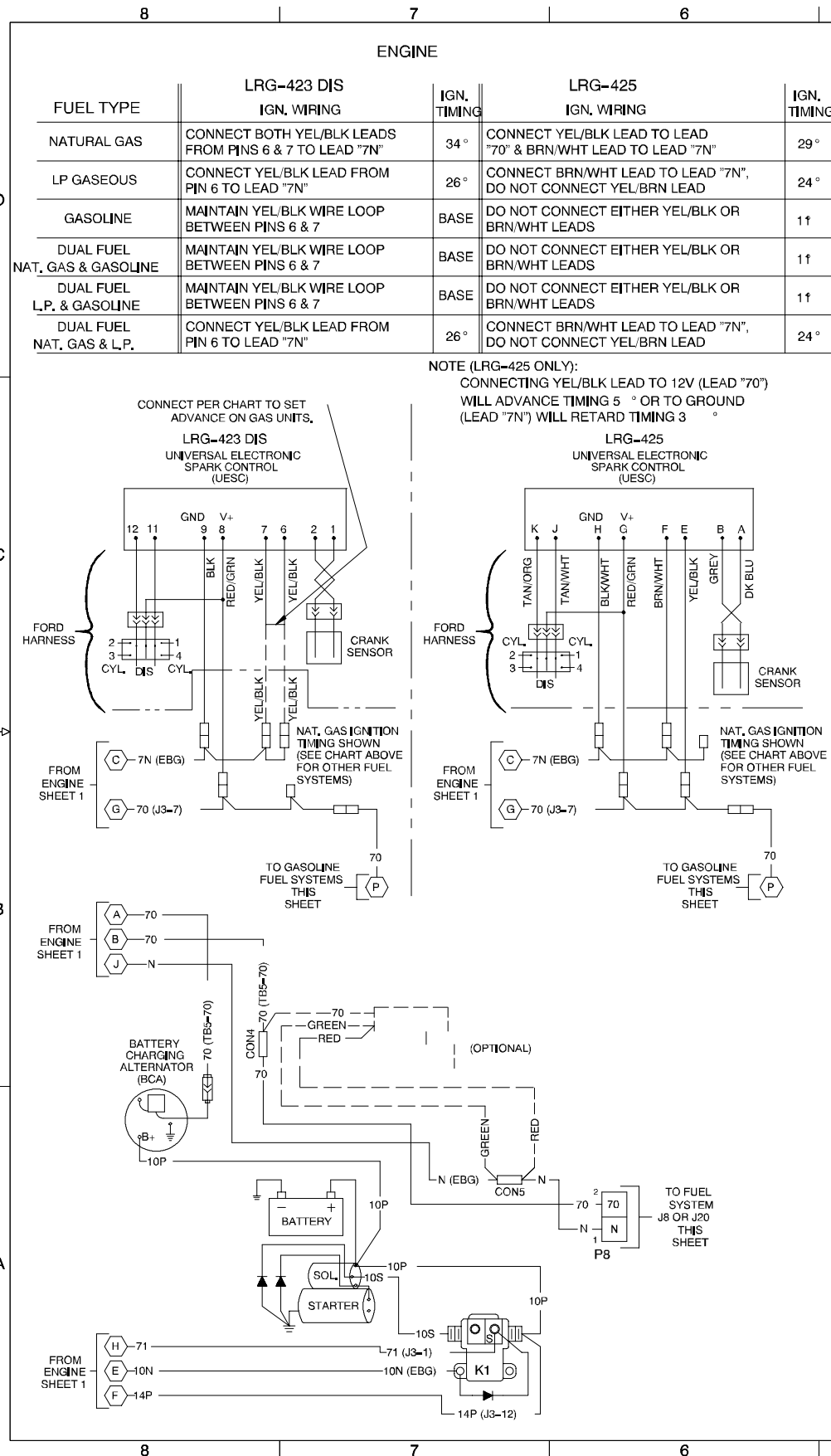
SCALE	CAD FILE	SHEET
NONE	326037A.DWG	1 of 1

326037

Manual Controller, Point-to-Point Wiring Diagram, Sheet 1, 326037A-J

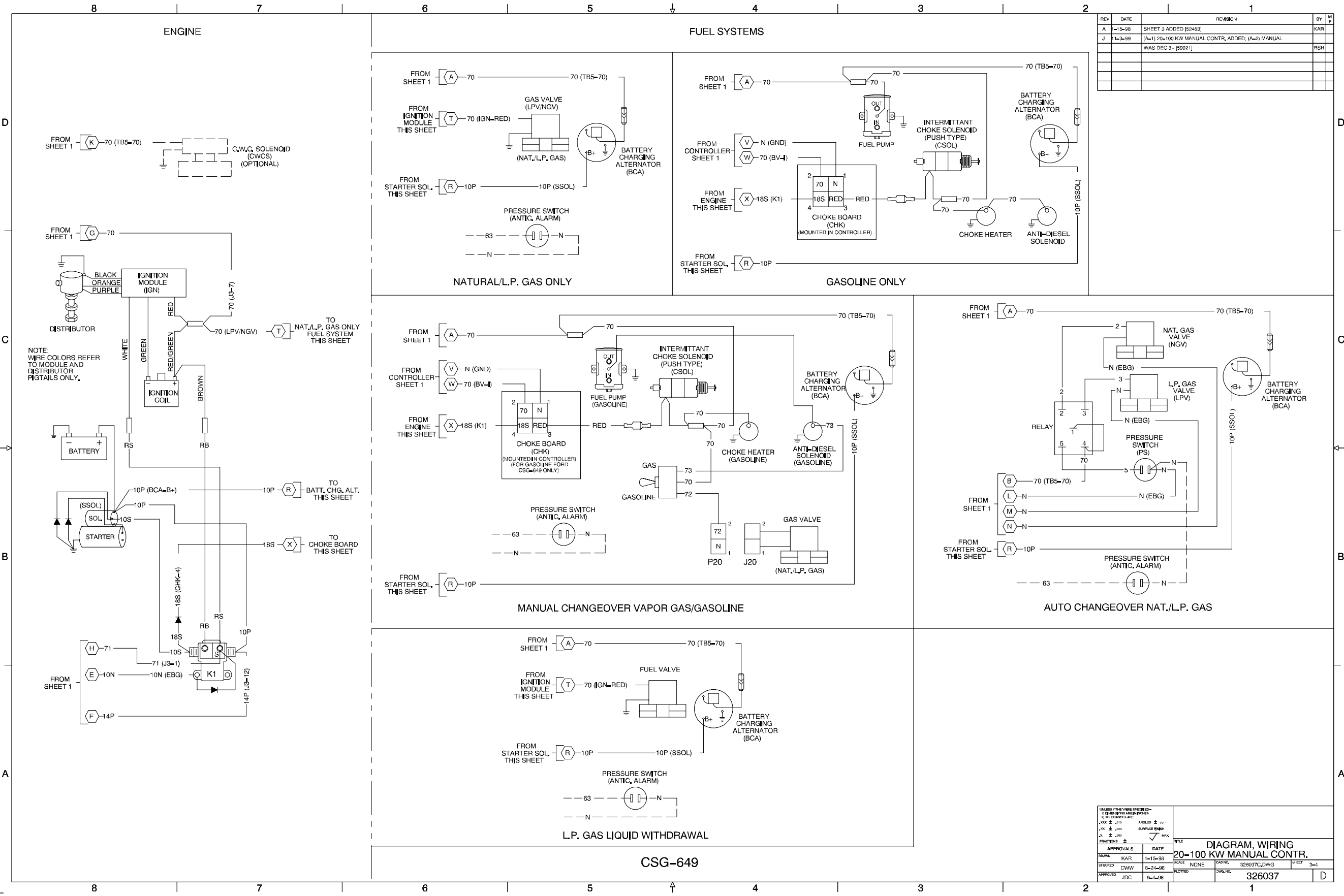


Manual Controller, Point-to-Point Wiring Diagram, Sheet 2, 326037B-C



REV	DATE	REVISION	BY	CHK
D	11-15-08	(A-1) SHEET 2-4 WAS 2-2; (A-2) LSG-423 ENGINE REMOVED; LRG-425 ENGINE ADDED; (B-2, B-4) CSG-549 MOVED TO SHEET 3; LSG-875 TO SHEET 4; (D-5) CHART ADDED; SEPARATED FUEL SYSTEMS; ANTICIPATORY ALARM ADDED (4 PLACES); CONNECT PER CHART NOTE ADDED [52453]	KAR	
J	1-3-09	(A-1) 20-100 KW MANUAL CONTR. ADDED; (A-2) MANUAL WAS DEC 3+ [58921]	PSH	

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES ANGLES ± 1° SURFACE FINISH TOLERANCES DECIMALS ± .015 FRACTIONS ± .005		DIAGRAM, WIRING 20-100 KW MANUAL CONTR.	
DRAWN: DFS CHECKED: JS APPROVED: SJL	DATE: 11-1-04 12-20-04 12-15-04	SCALE: NONE CAD NO.: 326037L.DWG DWG NO.: 326037	SHEET: 2-4 D

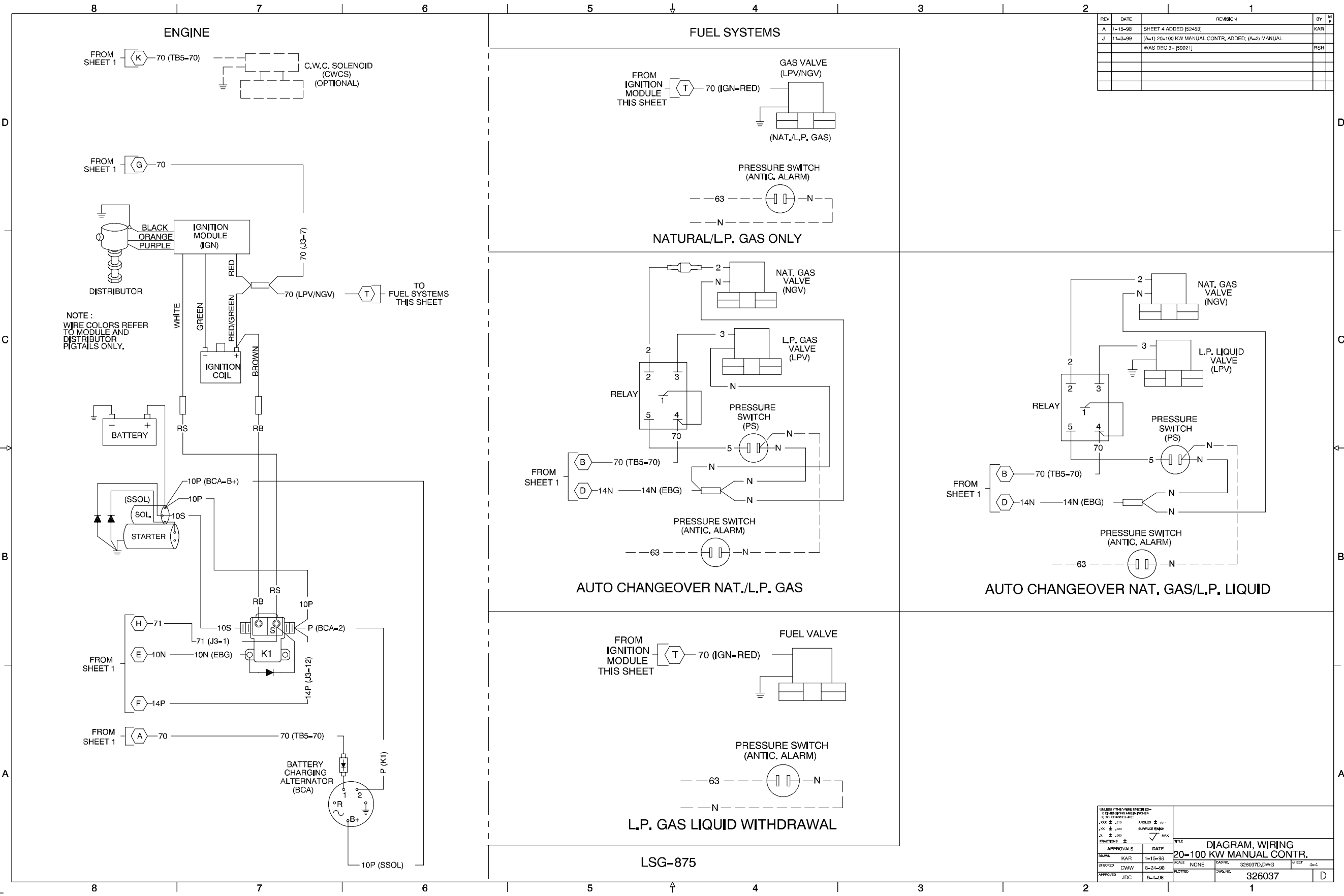


REV	DATE	REVISION	BY	MR
A	1-15-98	SHEET 3 ADDED [52453]	KAR	
J	1-3-99	(A-1) 20-100 KW MANUAL CONTR. ADDED; (A-2) MANUAL WAS DEC 3+ [59921]		

APPROVALS	DATE	TITLE
DESIGN: KAR	1-15-98	DIAGRAM, WIRING 20-100 KW MANUAL CONTR.
CHECKED: CWW	5-21-98	
APPROVED: JDC	8-1-98	

SCALE: NONE	CAD FILE: 326037C.DWG	SHEET: 3-1
NOTED:	DRAWING NO: 326037	D: D

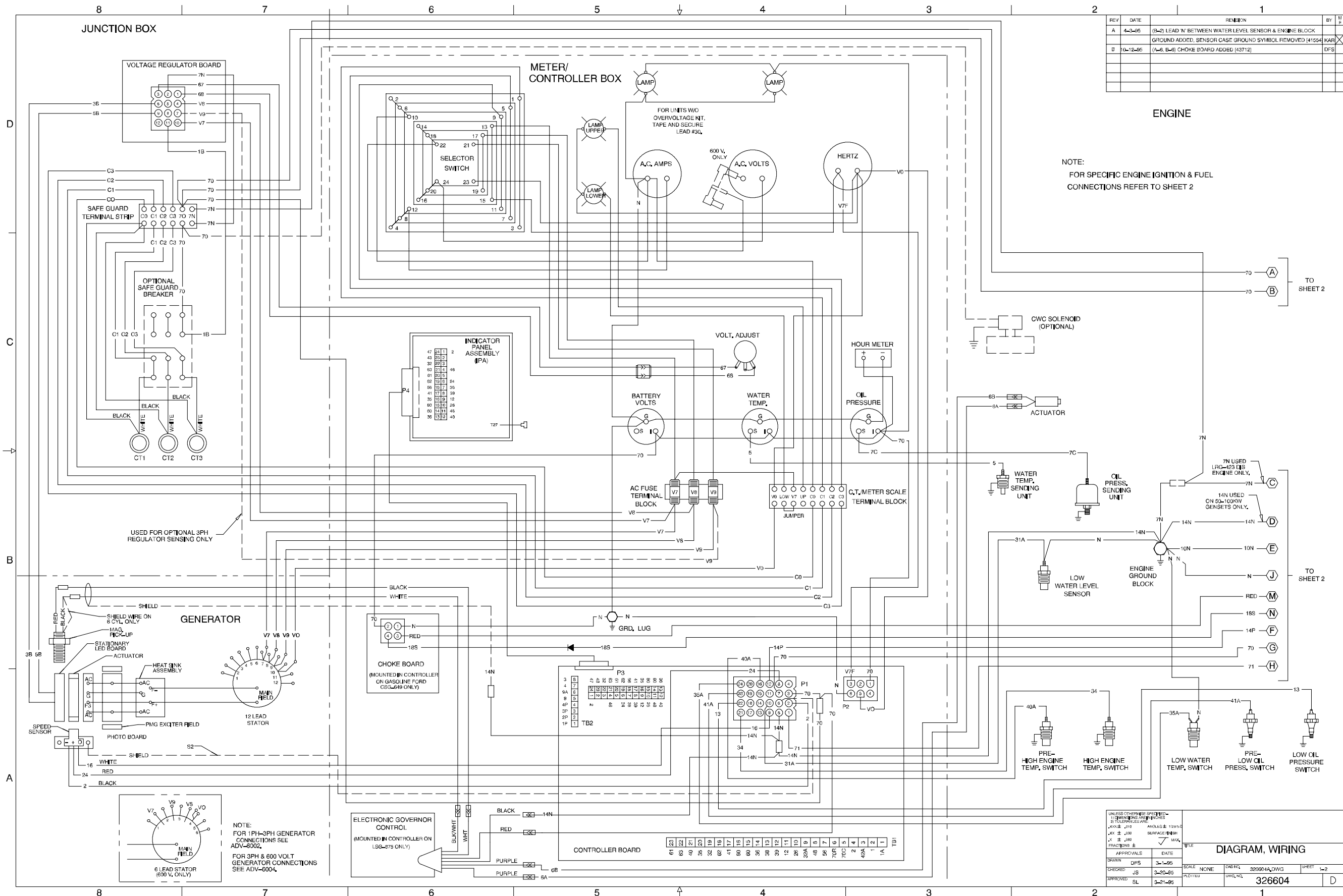
Manual Controller, Point-to-Point Wiring Diagram, Sheet 3, 326037C-J



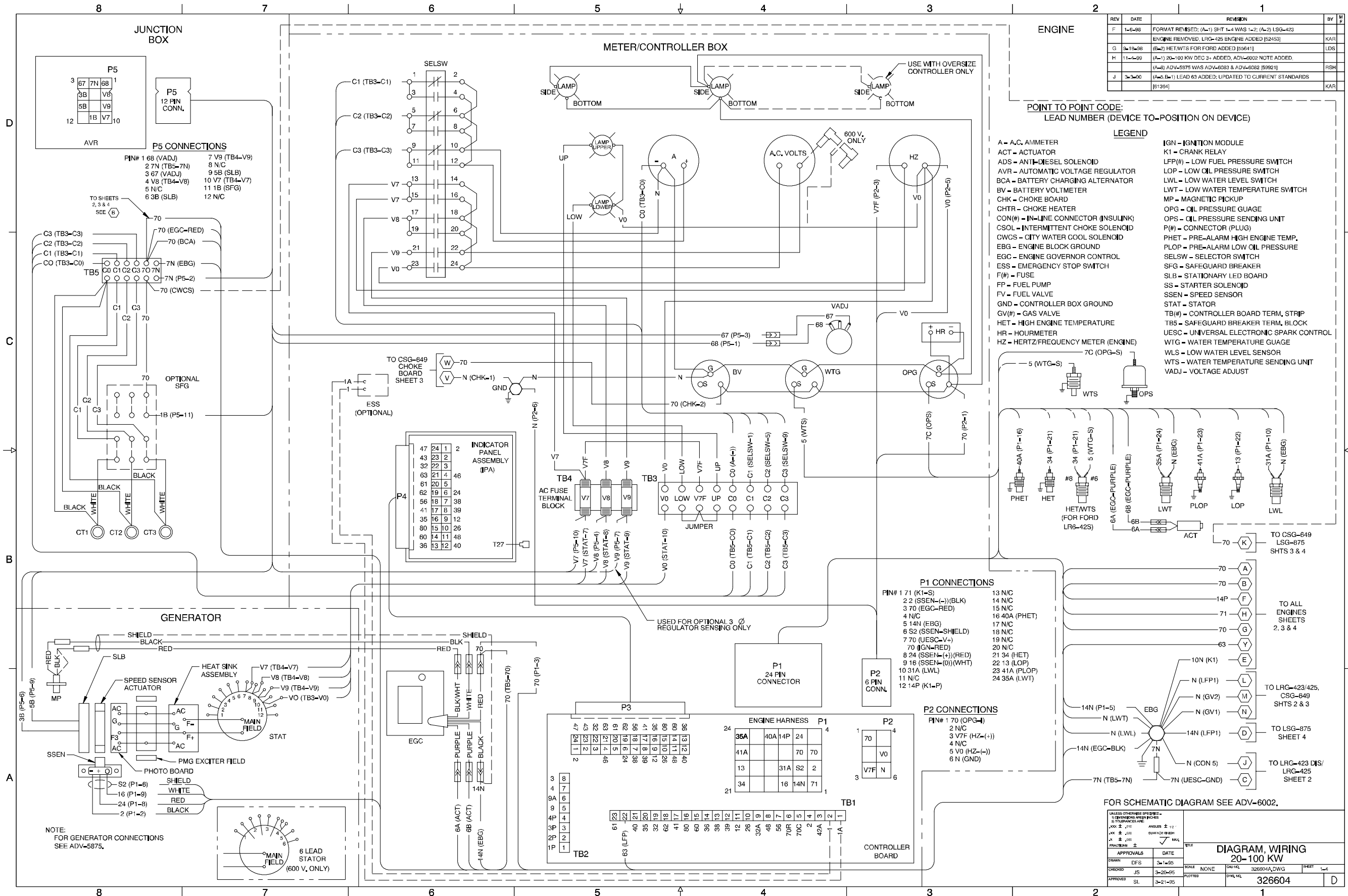
REV	DATE	REVISION	BY	IN
A	1-15-98	SHEET 4 ADDED [52453]	KAR	
J	11-3-99	(A-1) 20-100 KW MANUAL CONTR. ADDED; (A-2) MANUAL WAS DEC 3+ [59921]	RSH	

APPROVALS		DATE	TITLE	
DESIGNED	KAR	1-15-98	DIAGRAM, WIRING	
CHECKED	CWW	5-21-98	20-100 KW MANUAL CONTR.	
APPROVED	JDC	5-1-98	SCALE	NONE
			DRAWING NO.	326037D.DWG
			SHEET	4
				326037
				D

Manual Controller, Point-to-Point Wiring Diagram, Sheet 4, 326037D-J



Microprocessor Controller, Point-to-Point Wiring Diagram, Standard, Sheet 1, 326604A-B



REV	DATE	REVISION	BY
F	1-6-88	FORMAT REVISED; (A-1) SHT 1-4 WAS 1-2; (A-2) LSG-423	KAR
G	1-18-88	ENGINE REMOVED, LRG-425 ENGINE ADDED [59641]	LDR
H	11-1-89	(B-2) HET/WTS FOR FORD ADDED [59641]	
I	11-1-89	(A-1) 20-100 KW DEC 3- ADDED, ADV-6002 NOTE ADDED	FSH
J	3-3-90	(A-5) ADV-5875 WAS ADV-6083 & ADV-6082 [59921]	
		(A-5, B-1) LEAD 63 ADDED; UPDATED TO CURRENT STANDARDS	KAR
		[61364]	

POINT TO POINT CODE:
LEAD NUMBER (DEVICE TO-POSITION ON DEVICE)

LEGEND

- A - A.C. AMMETER
- ACT - ACTUATOR
- ADS - ANTI-DIESEL SOLENOID
- AVR - AUTOMATIC VOLTAGE REGULATOR
- BCA - BATTERY CHARGING ALTERNATOR
- BV - BATTERY VOLTMETER
- CHK - CHOKE BOARD
- CHTR - CHOKE HEATER
- CON(+) - IN-LINE CONNECTOR (INSULINK)
- CSOL - INTERMITTENT CHOKE SOLENOID
- CWGS - CITY WATER COOL SOLENOID
- EBG - ENGINE BLOCK GROUND
- EGC - ENGINE GOVERNOR CONTROL
- ESS - EMERGENCY STOP SWITCH
- F(+) - FUSE
- FP - FUEL PUMP
- FV - FUEL VALVE
- GND - CONTROLLER BOX GROUND
- GV(+) - GAS VALVE
- HET - HIGH ENGINE TEMPERATURE
- HR - HOURMETER
- HZ - HERTZ/FREQUENCY METER (ENGINE)
- IGN - IGNITION MODULE
- K1 - CRANK RELAY
- LFP(+) - LOW FUEL PRESSURE SWITCH
- LOP - LOW OIL PRESSURE SWITCH
- LWL - LOW WATER LEVEL SWITCH
- LWT - LOW WATER TEMPERATURE SWITCH
- MP - MAGNETIC PICKUP
- OPG - OIL PRESSURE GAUGE
- OPS - OIL PRESSURE SENDING UNIT
- P(+) - CONNECTOR (PLUG)
- PHET - PRE-ALARM HIGH ENGINE TEMP.
- PLOP - PRE-ALARM LOW OIL PRESSURE
- SFG - SAFEGUARD BREAKER
- SLB - STATIONARY LED BOARD
- SS - STARTER SOLENOID
- SSEN - SPEED SENSOR
- STAT - STATOR
- TB(+) - CONTROLLER BOARD TERM, STRIP
- TB5 - SAFEGUARD BREAKER TERM, BLOCK
- UESC - UNIVERSAL ELECTRONIC SPARK CONTROL
- WTG - WATER TEMPERATURE GAUGE
- WLS - LOW WATER LEVEL SENSOR
- WTS - WATER TEMPERATURE SENDING UNIT
- VADJ - VOLTAGE ADJUST

P1 CONNECTIONS

PIN# 1 71 (K1-S)	13 N/C
2 2 (SSEN-(-));(BLK)	14 N/C
3 70 (EGC-RED)	15 N/C
4 N/C	16 40A (PHET)
5 14N (EBG)	17 N/C
6 S2 (SSEN-SHIELD)	18 N/C
7 70 (UESC-V-)	19 N/C
7 70 (IGN-RED)	20 N/C
8 24 (SSEN-(+))(RED)	21 34 (HET)
9 16 (SSEN-(0))(WHT)	22 13 (LOP)
10 31A (LWL)	23 41A (PLOP)
11 N/C	24 35A (LWT)
12 14P (K1-P)	

P2 CONNECTIONS

PIN# 1 70 (OPG-)	2 N/C
2 N/C	3 V7F (HZ-(+))
3 V7F (HZ-(+))	4 N/C
4 N/C	5 V0 (HZ-(-))
5 V0 (HZ-(-))	6 N (GND)

P3

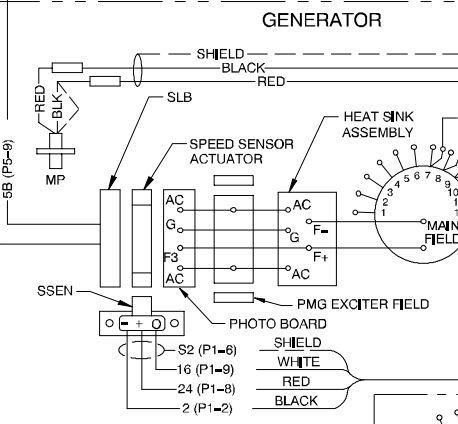
47	24	1	2
43	23	2	3
32	22	3	4
63	21	4	46
61	20	5	
62	19	6	24
56	18	7	38
41	17	8	39
35	16	9	12
80	15	10	26
60	14	11	48
36	13	12	40

TB1

61	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---

P5 CONNECTIONS

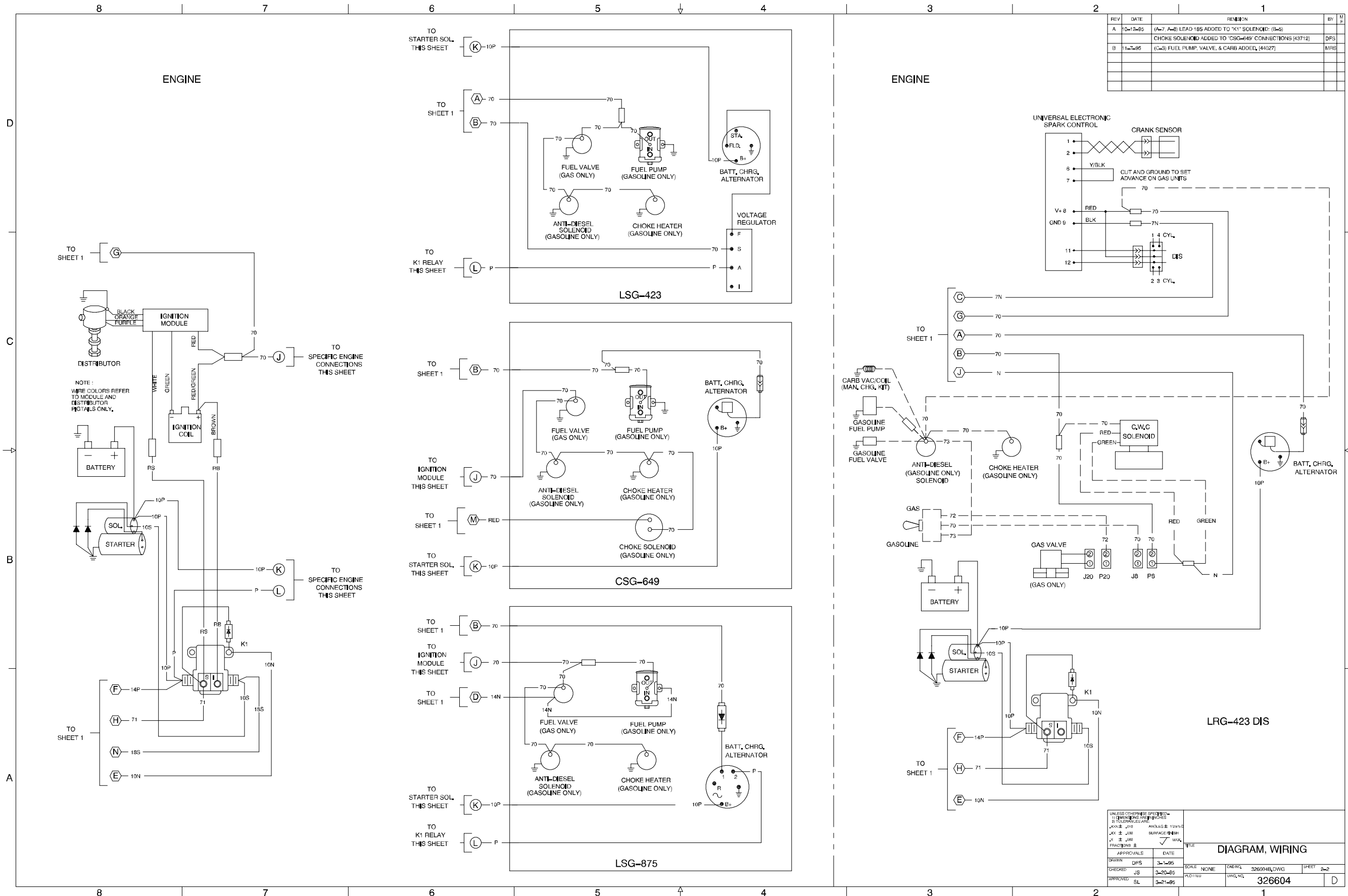
PIN# 1 68 (VADJ)	7 V9 (TB4-V9)
2 7N (TB5-7N)	8 N/C
3 67 (VADJ)	9 5B (SLB)
4 V8 (TB4-V8)	10 V7 (TB4-V7)
5 N/C	11 1B (SFG)
6 3B (SLB)	12 N/C



FOR SCHEMATIC DIAGRAM SEE ADV-6002.

UNLESS OTHERWISE SPECIFIED: - DIMENSIONS ARE IN INCHES - TOLERANCES ARE: FRACTIONS ± .010 DECIMALS ± .005 ANGLES ± 10° DIMENSIONS UNLESS OTHERWISE SPECIFIED	DATE	3-1-95	SCALE	NONE	DRAWN	DFS	CHECKED	JS	APPROVED	SL
DIAGRAM, WIRING										
20-100 KW										
326604										

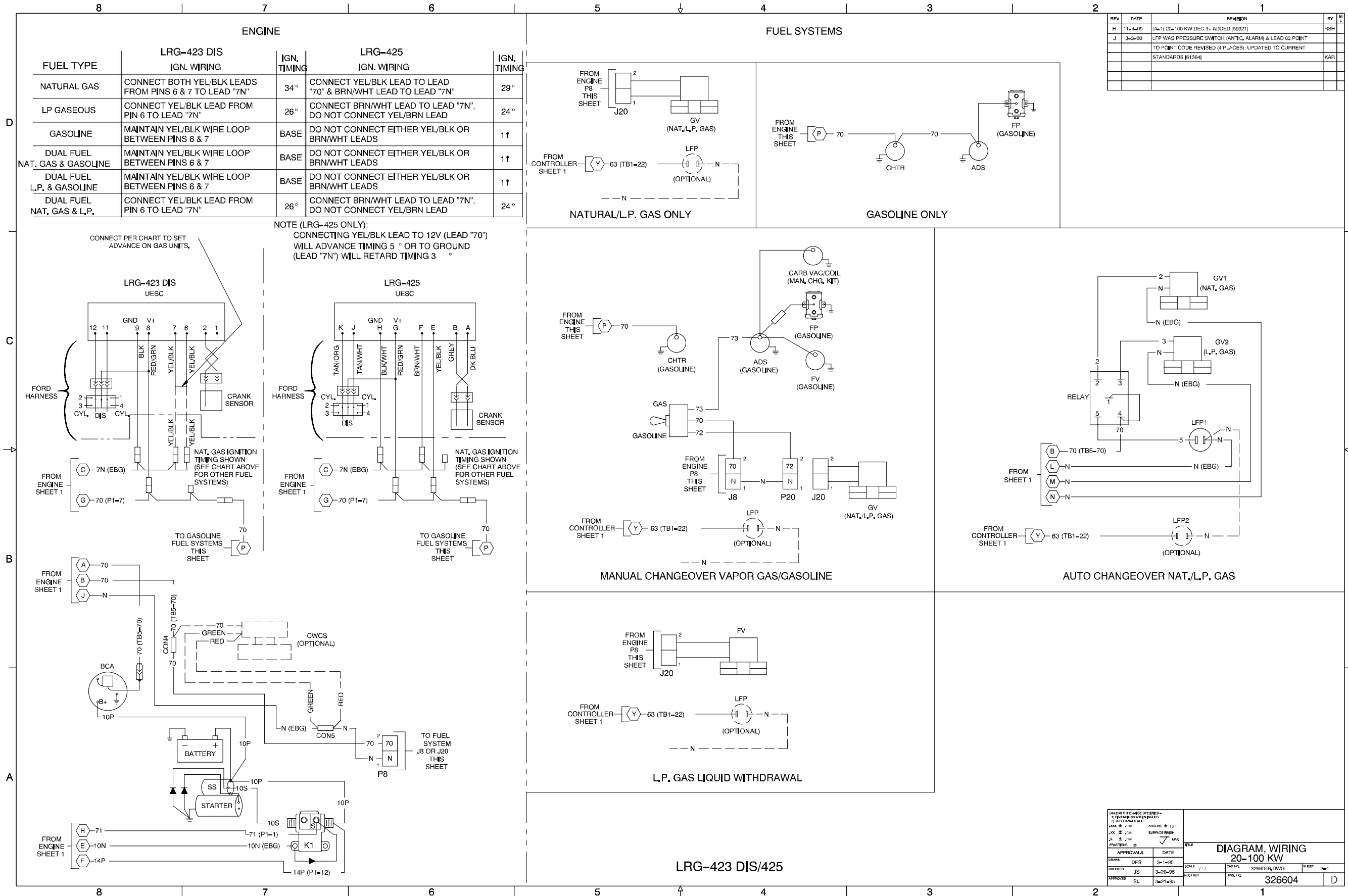
Microprocessor Controller, Point-to-Point Wiring Diagram, Standard, Sheet 1, 326604A-D



REV	DATE	REVISION	BY	MR
A	10-12-85	(A-7, A-8) LEAD 18S ADDED TO "K1" SOLENOID; (B-5) CHOKE SOLENOID ADDED TO "CSG-649" CONNECTIONS (43712)	DFS	
B	11-7-85	(C-5) FUEL PUMP, VALVE, & CARB ADDED; (44027)	MRS	

UNLESS OTHERWISE SPECIFIED: 1. DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF. 2. DIMENSIONS ARE IN MILLIMETERS AND DECIMALS THEREOF. 3. SURFACE FINISH SHALL BE AS SPECIFIED. 4. DIMENSIONS ARE TO UNLESS OTHERWISE SPECIFIED.		TITLE	
APPROVALS	DATE	DIAGRAM, WIRING	
DRAWN DFS	3-1-85	SCALE NONE	DWG NO 326604/1/DWG
CHECKED JS	3-20-85	PLD/TBU	SHEET 2-2
APPROVED SL	3-21-85	APP/ML	326604

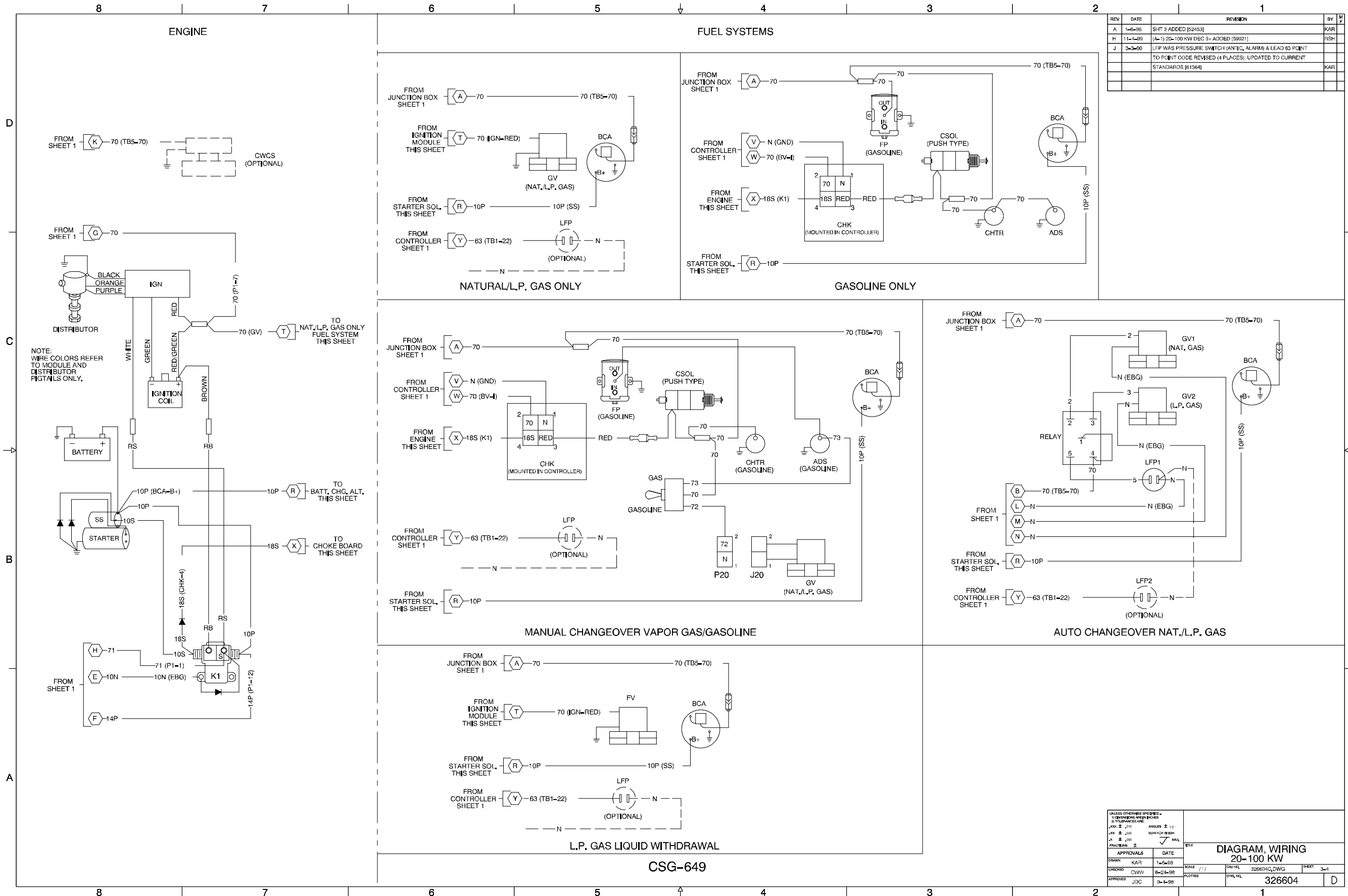
Microprocessor Controller, Point-to-Point Wiring Diagram, Standard, Sheet 2, 326604B-B



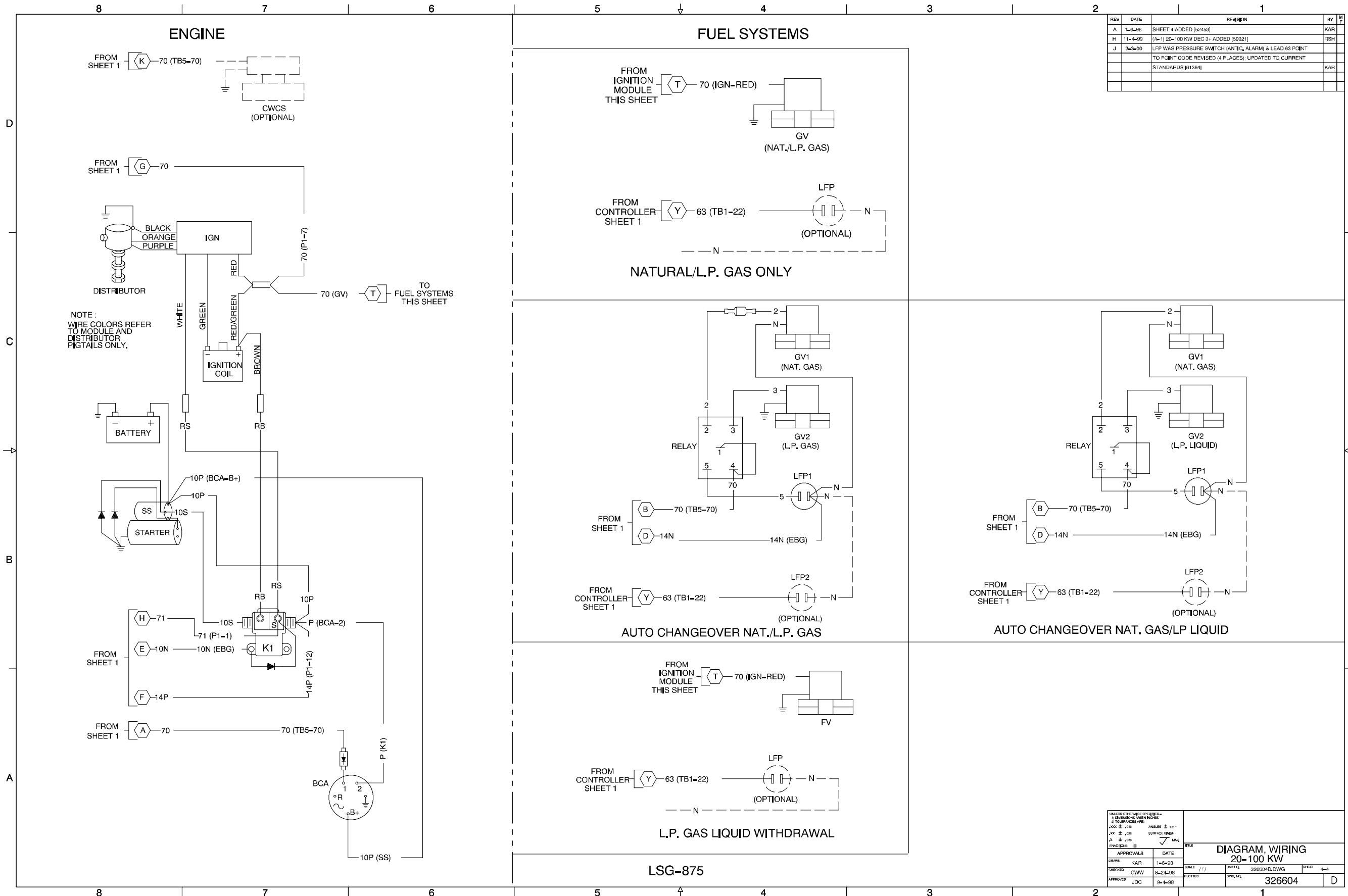
REV	DATE	REVISION	BY	APP
H	11-1-99	(A=1) 20-100 KW DEC 3- ADDED (59921)		
J	3-3-00	LFP WAS PRESSURE SWITCH (ANTI-C, ALARM) & LEAD 63 POINT TO POINT CODE REVISED (4 PLACES), UPDATED TO CURRENT STANDARDS (61364)	KAR	

UNLESS OTHERWISE SPECIFIED - 3 DIMENSIONS ARE MINIMUMS DIMENSIONS ARE: DIMENSIONS ARE: DIMENSIONS ARE: DIMENSIONS ARE:		TOLERANCES ARE: HOLE ± .010 SURFACE FINISH FRACTIONS ±		TITLE DIAGRAM, WIRING 20-100 KW	
APPROVALS	DATE	SCALE	NO. OF SHEETS	326604-EL/DWG	SHEET 2 of 4
DRAWN: DFS	3-1-95	DATE			
CHECKED: JS	3-20-95	DATE			
APPROVED: SL	3-21-95	DATE		326604	D

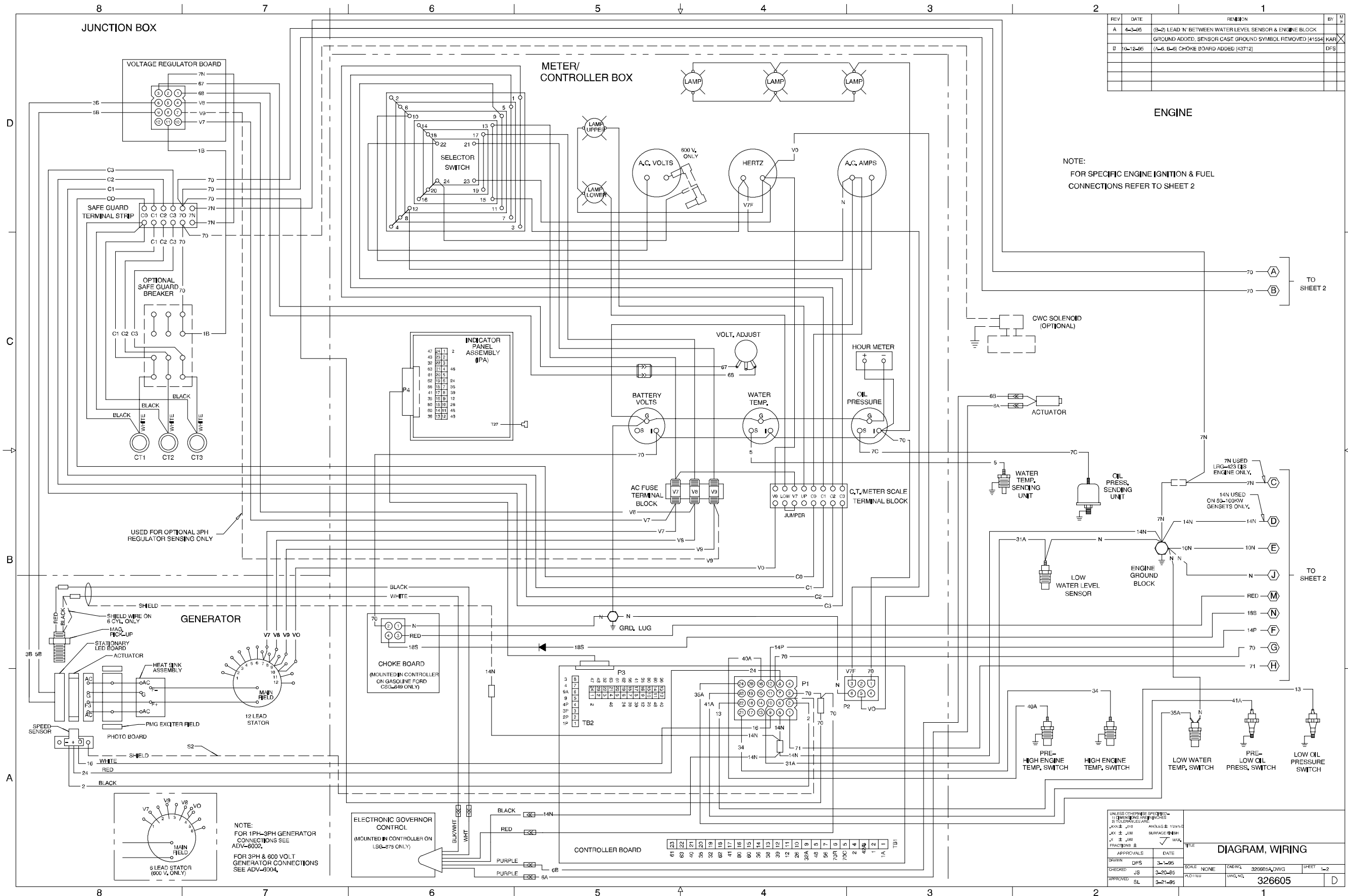
Microprocessor Controller, Point-to-Point Wiring Diagram, Standard, Sheet 2, 326604B-J



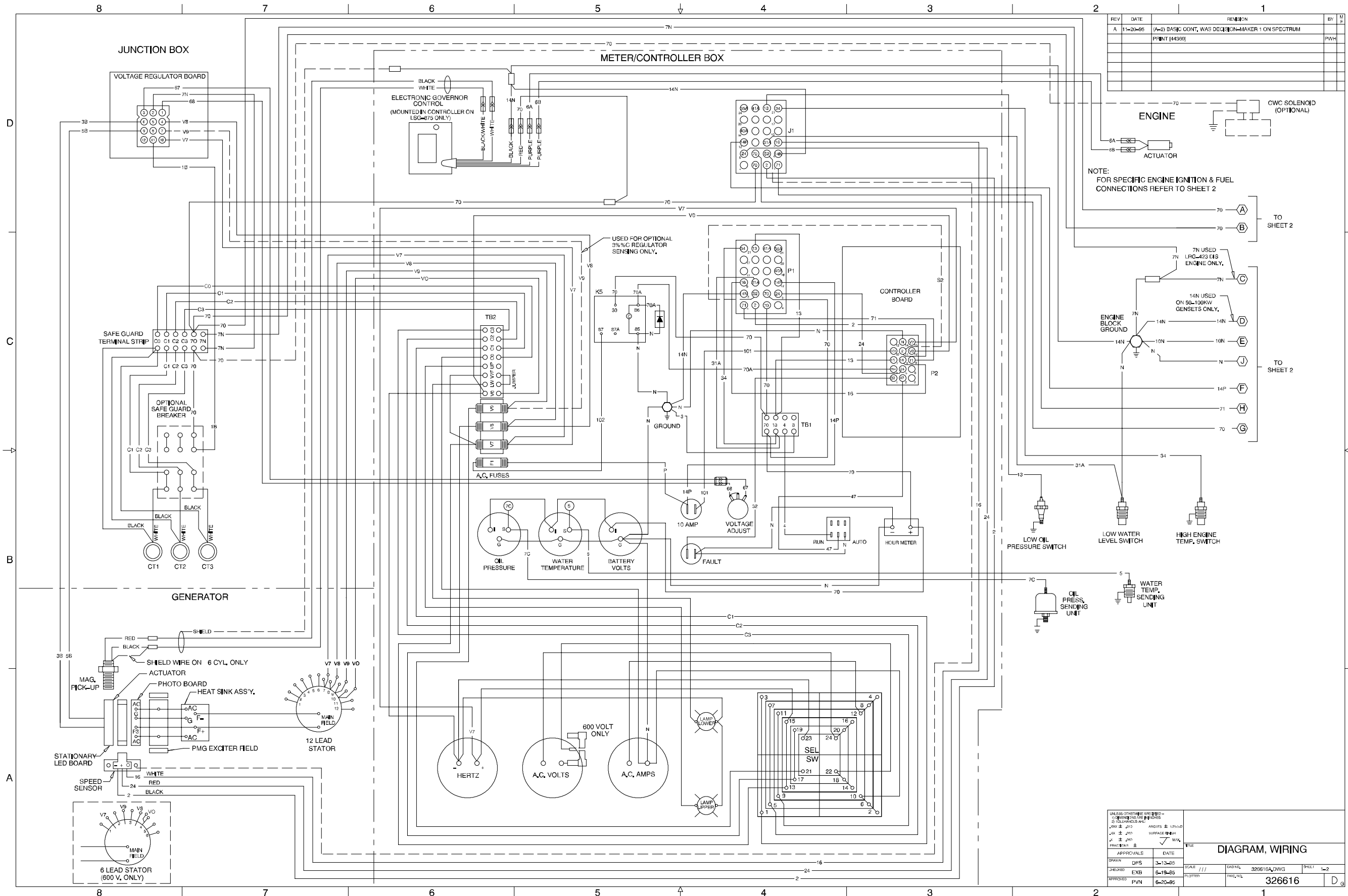
Microprocessor Controller, Point-to-Point Wiring Diagram, Standard, Sheet 3, 326604C-J



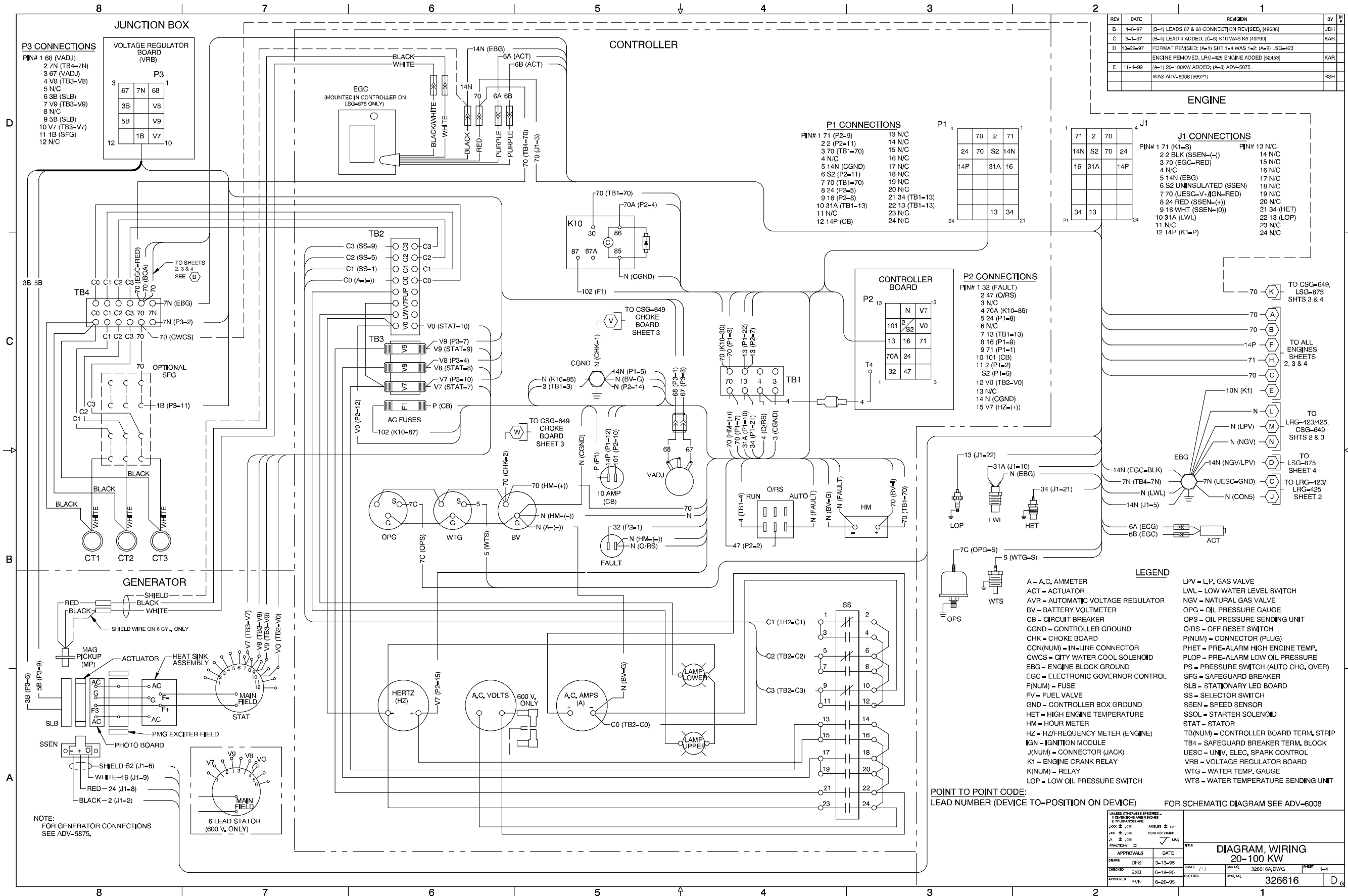
Microprocessor Controller, Point-to-Point Wiring Diagram, Standard, Sheet 4, 326604D-J



Microprocessor Controller, Point-to-Point Wiring Diagram, Oversize, Sheet 1, 326605A-B



Decision-Maker™ 1 Controller, Expanded, Point-to-Point Wiring Diagram, Sheet 1, 326616A-A



REV	DATE	REVISION	BY
B	4-8-97	(B-4) LEADS 67 & 68 CONNECTION REVISED, [49538]	JDH
C	5-1-97	(C-5) LEAD 4 ADDED, (C-5) K10 WAS K5 [49790]	KAR
D	10-22-97	FORMAT REVISED; (A-1) SHT 1-4 WAS 1-2 (A-2) LSG-423 ENGINE REMOVED, LRG-425 ENGINE ADDED [32433]	KAR
E	11-1-99	(A-1) 20-100KW ADDED, (A-8) ADV-5875 WAS ADV-5008 [59921]	FSH

J1 CONNECTIONS

PIN#	1	2	70	24
14N	S2	70	24	
16	31A	14P		
34	13			

PIN# 13 N/C

14 N/C
15 N/C
16 N/C
17 N/C
18 N/C
19 N/C
20 N/C
21 34 (HET)
22 13 (LOP)
23 N/C
24 N/C

TO CSG-649, LSG-875 SHTS 3 & 4

TO ALL ENGINES SHTS 2, 3 & 4

TO LRG-423/425, CSG-649 SHTS 2 & 3

TO LSG-875 SHEET 4

TO LRG-423/ LRG-425 SHEET 2

LEGEND

A - A.C. AMMETER	LPV - L.P. GAS VALVE
ACT - ACTUATOR	LWL - LOW WATER LEVEL SWITCH
AVR - AUTOMATIC VOLTAGE REGULATOR	NGV - NATURAL GAS VALVE
BV - BATTERY VOLTMETER	OPG - OIL PRESSURE GAUGE
CB - CIRCUIT BREAKER	OPS - OIL PRESSURE SENDING UNIT
CGND - CONTROLLER GROUND	O/RS - OFF RESET SWITCH
CHK - CHOKE BOARD	P(NUM) - CONNECTOR (PLUG)
CON(NUM) - IN-LINE CONNECTOR	PHET - PRE-ALARM HIGH ENGINE TEMP.
CWCS - CITY WATER COOL SOLENOID	PLOP - PRE-ALARM LOW OIL PRESSURE
EBG - ENGINE BLOCK GROUND	PS - PRESSURE SWITCH (AUTO CHG. OVER)
EGC - ELECTRONIC GOVERNOR CONTROL	F(NUM) - FUSE
F(NUM) - FUSE	FV - FUEL VALVE
GND - CONTROLLER BOX GROUND	GND - CONTROLLER BOARD
HET - HIGH ENGINE TEMPERATURE	SS - SELECTOR SWITCH
HM - HOUR METER	SSEN - SPEED SENSOR
HZ - HZ/FREQUENCY METER (ENGINE)	SSOL - STARTER SOLENOID
IGN - IGNITION MODULE	STAT - STATOR
J(NUM) - CONNECTOR (JACK)	TB(NUM) - CONTROLLER BOARD TERM. STRIP
K1 - ENGINE CRANK RELAY	TB4 - SAFEGUARD BREAKER TERM. BLOCK
K(NUM) - RELAY	UESC - UNIV. ELEC. SPARK CONTROL
LOP - LOW OIL PRESSURE SWITCH	VRB - VOLTAGE REGULATOR BOARD
	WTS - WATER TEMP. GAUGE
	WTS - WATER TEMPERATURE SENDING UNIT

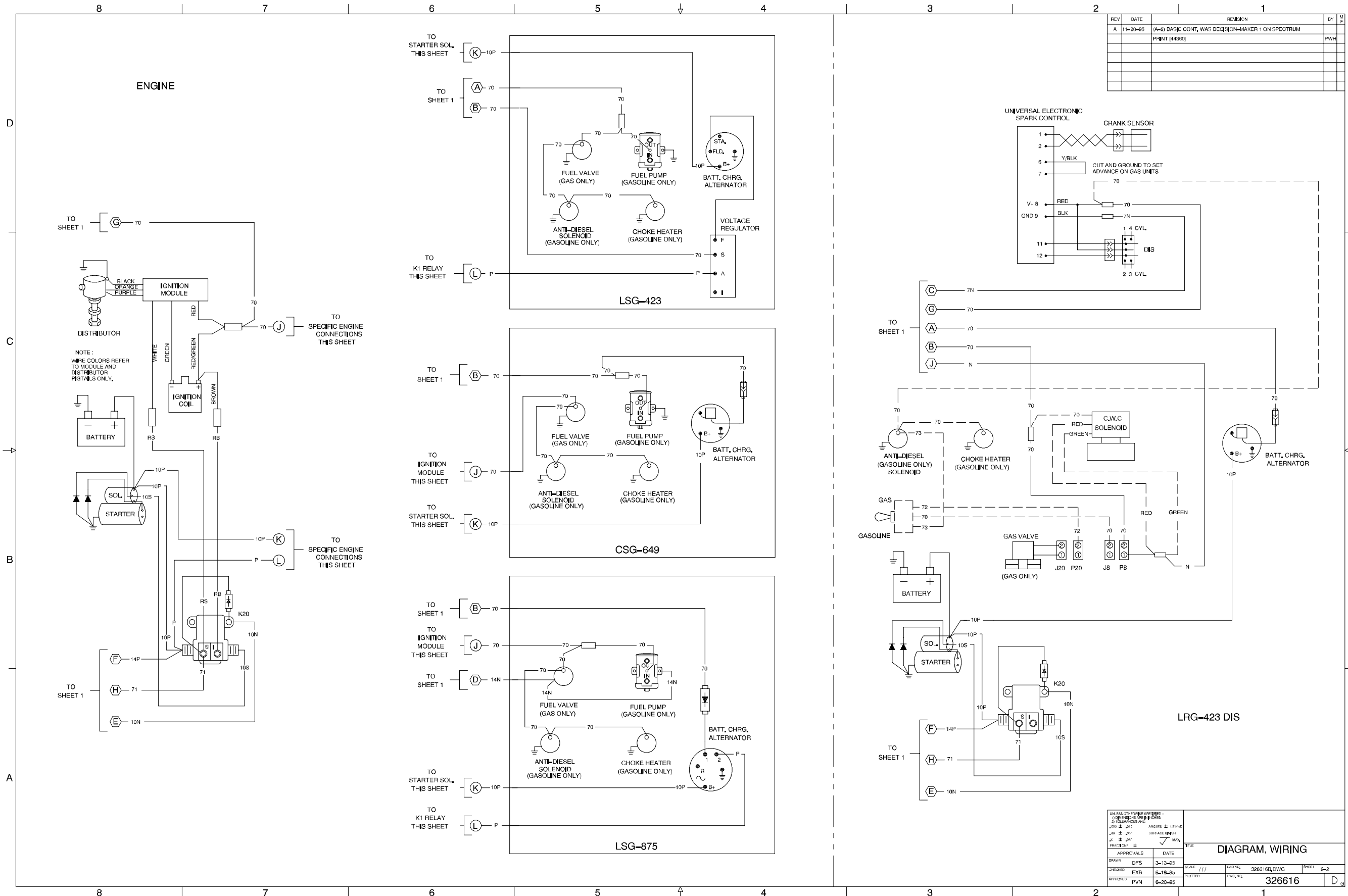
POINT TO POINT CODE:
LEAD NUMBER (DEVICE TO-POSITION ON DEVICE) FOR SCHEMATIC DIAGRAM SEE ADV-6008

APPROVALS	DATE	SCALE	DATE	SCALE	DATE	SCALE
DRAWN DFS	2-1-95	1/1	DATE	1/1	DATE	1/1
CHECKED EXB	5-19-95		DATE		DATE	
APPROVED PUJ	6-20-95		DATE		DATE	

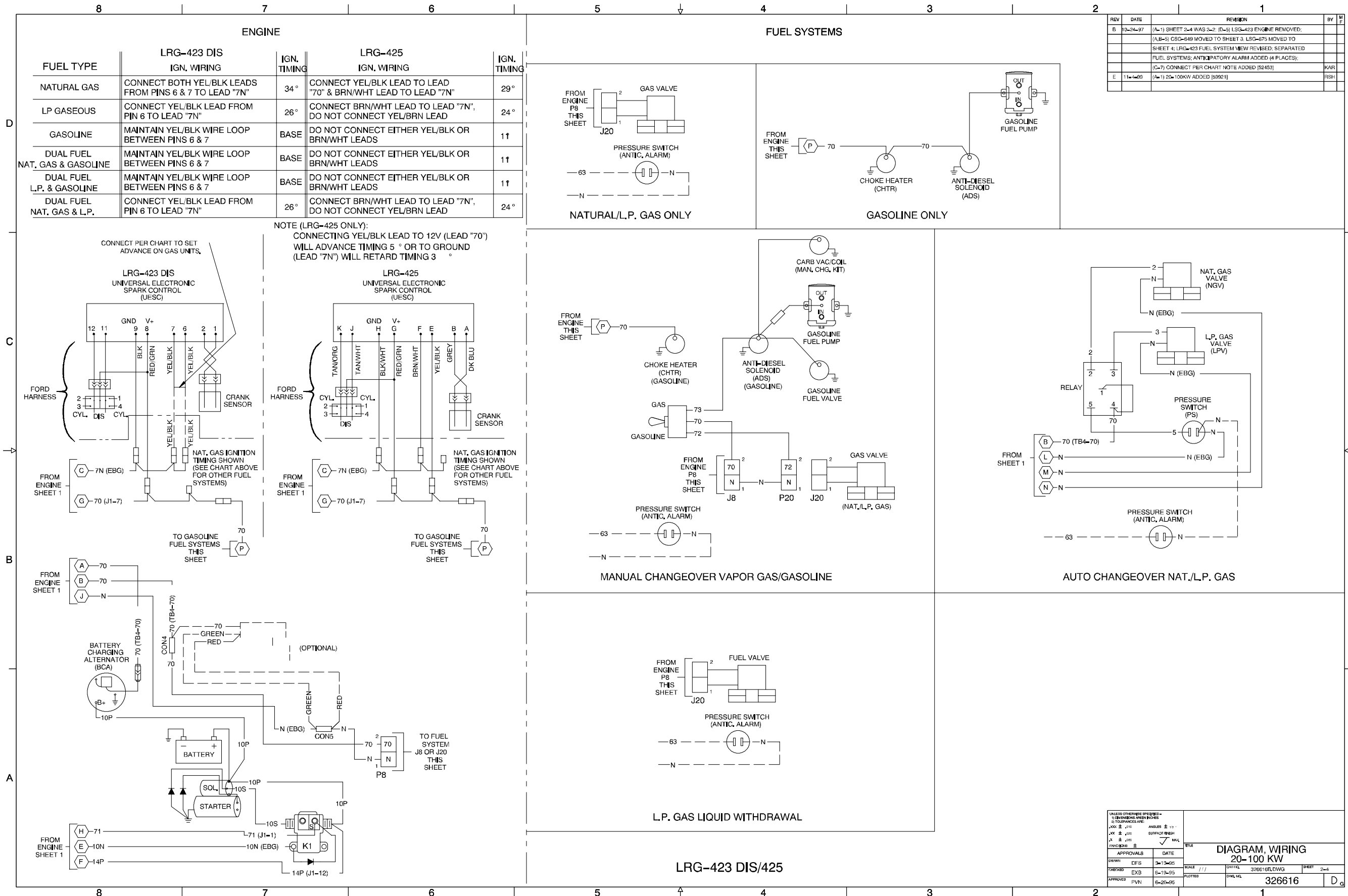
DIAGRAM WIRING 20-100 KW

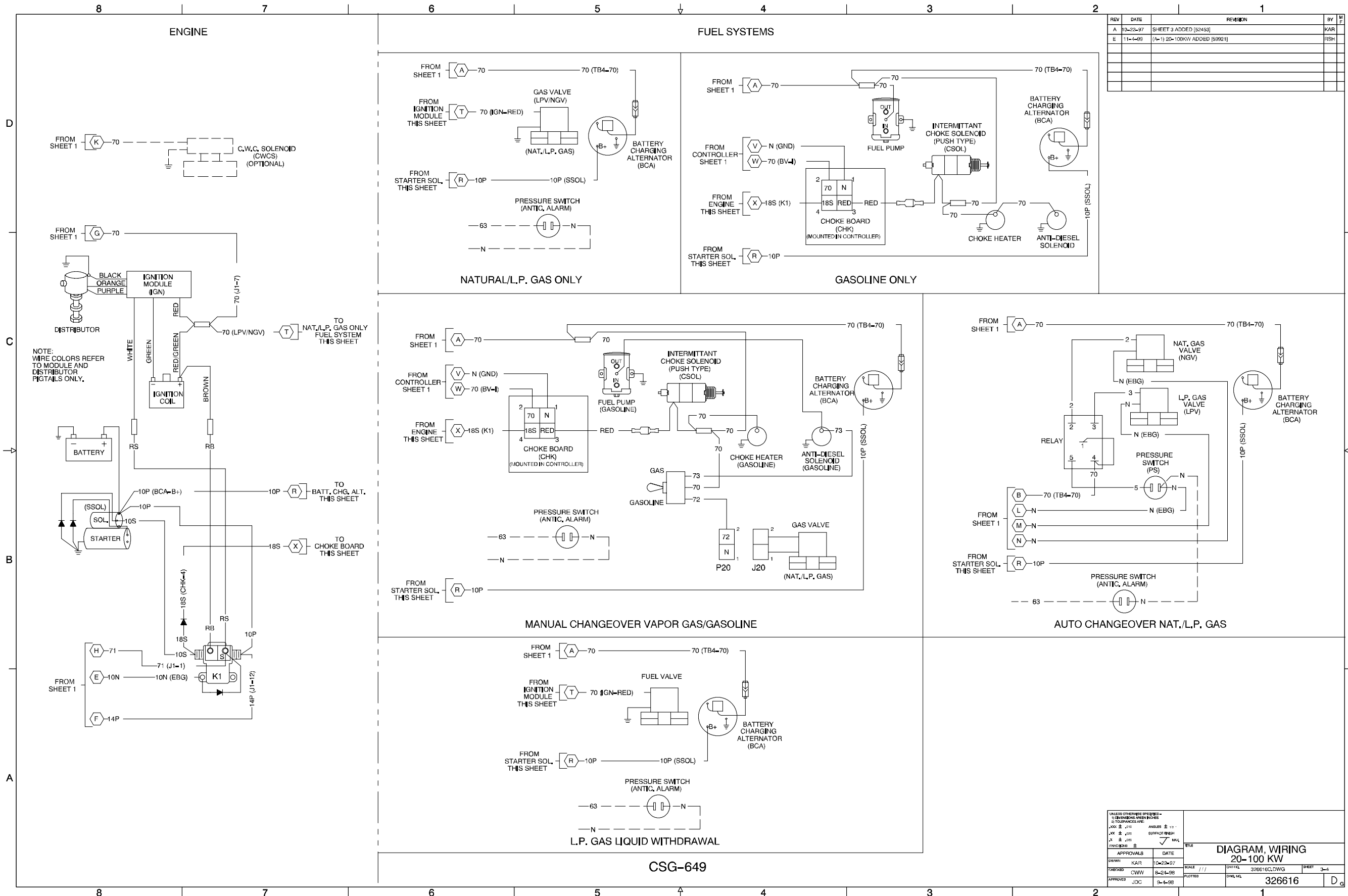
326616

Decision-Maker™ 1 Controller, Expanded, Point-to-Point Wiring Diagram, Sheet 1, 326616A-E

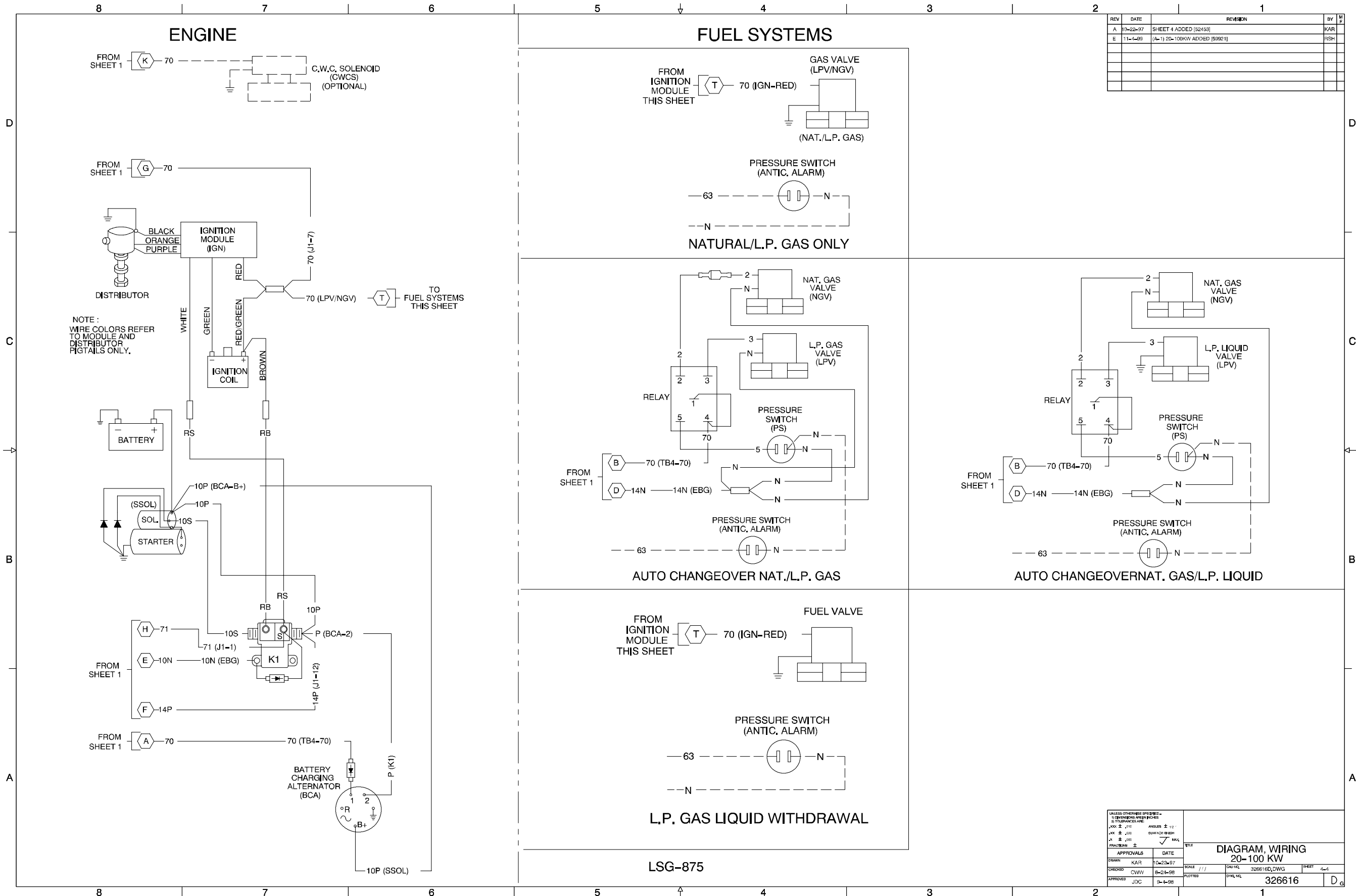


Decision-Maker™ 1 Controller, Expanded, Point-to-Point Wiring Diagram, Sheet 2, 326616B-A

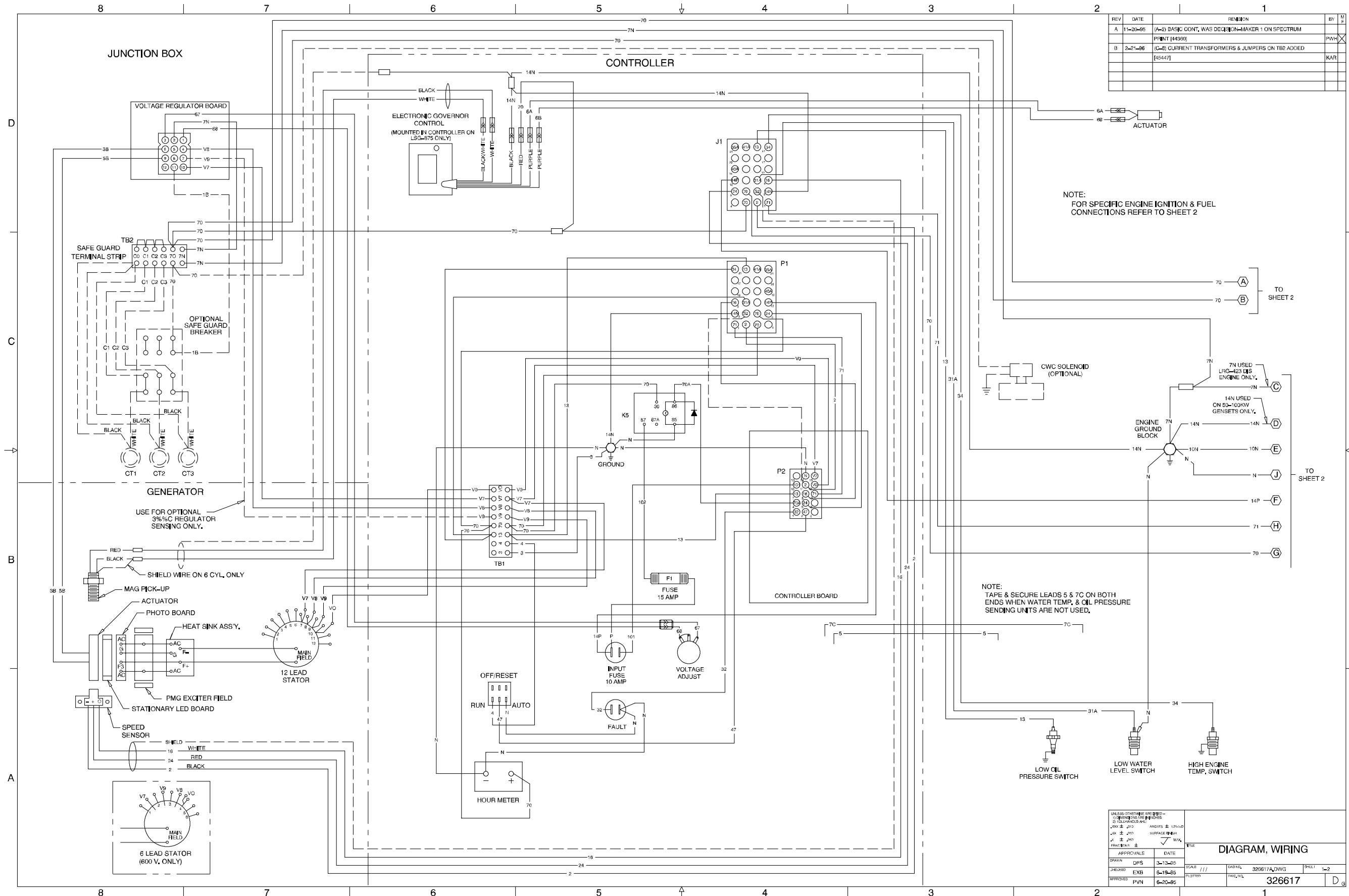




Decision-Maker™ 1 Controller, Expanded, Point-to-Point Wiring Diagram, Sheet 3, 326616C-E



Decision-Maker™ 1 Controller, Expanded, Point-to-Point Wiring Diagram, Sheet 4, 326616D-E



REV	DATE	REVISION	BY	MR
A	11-20-95	(A-2) BASIC CONT, WAS DECISION-MAKER 1 ON SPECTRUM	PVN	
B	2-21-96	(C-2) CURRENT TRANSFORMERS & JUMPERS ON TB2 ADDED	KAR	
		[65447]		

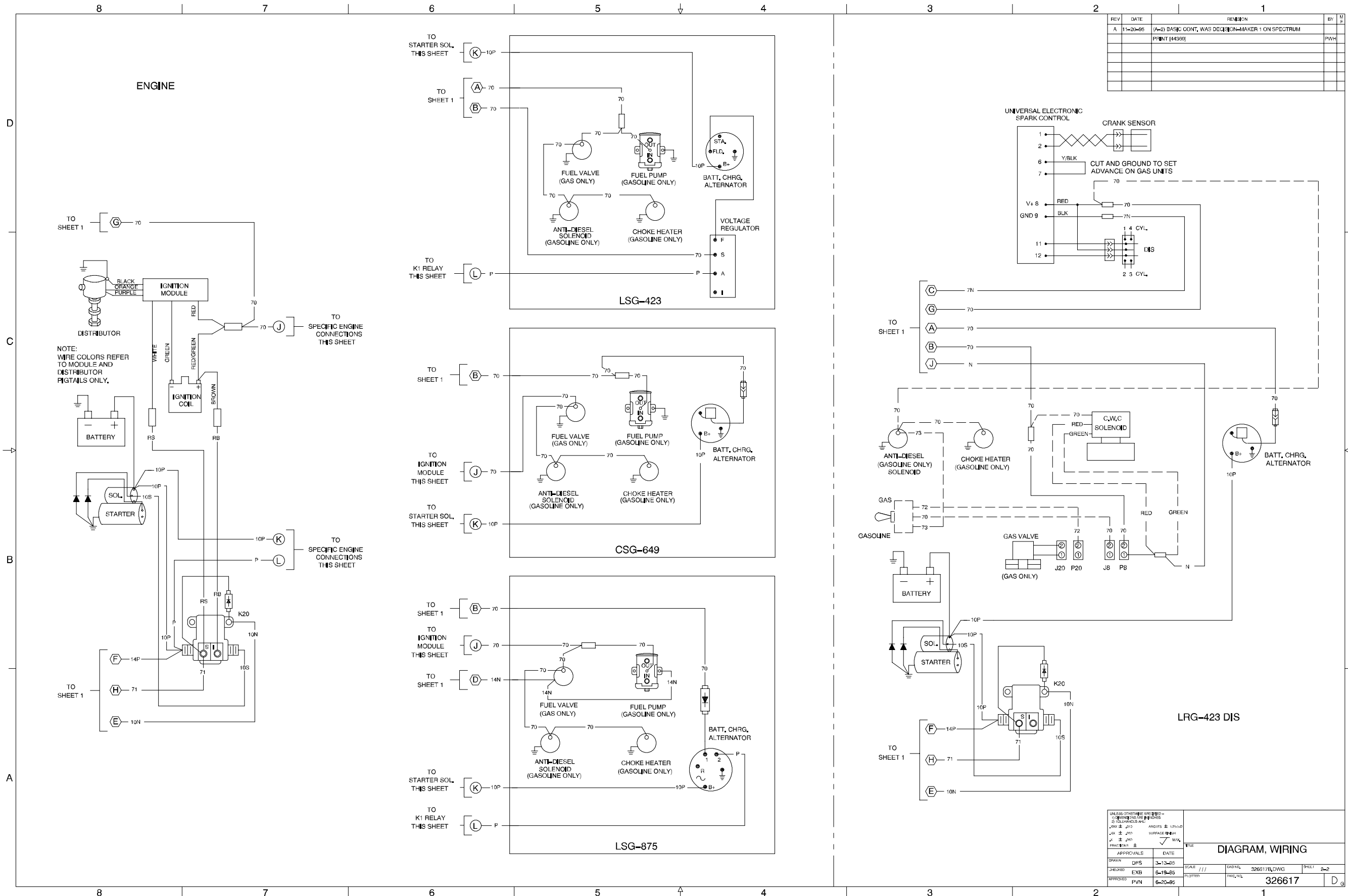
NOTE:
FOR SPECIFIC ENGINE IGNITION & FUEL
CONNECTIONS REFER TO SHEET 2

CWC SOLENOID
(OPTIONAL)

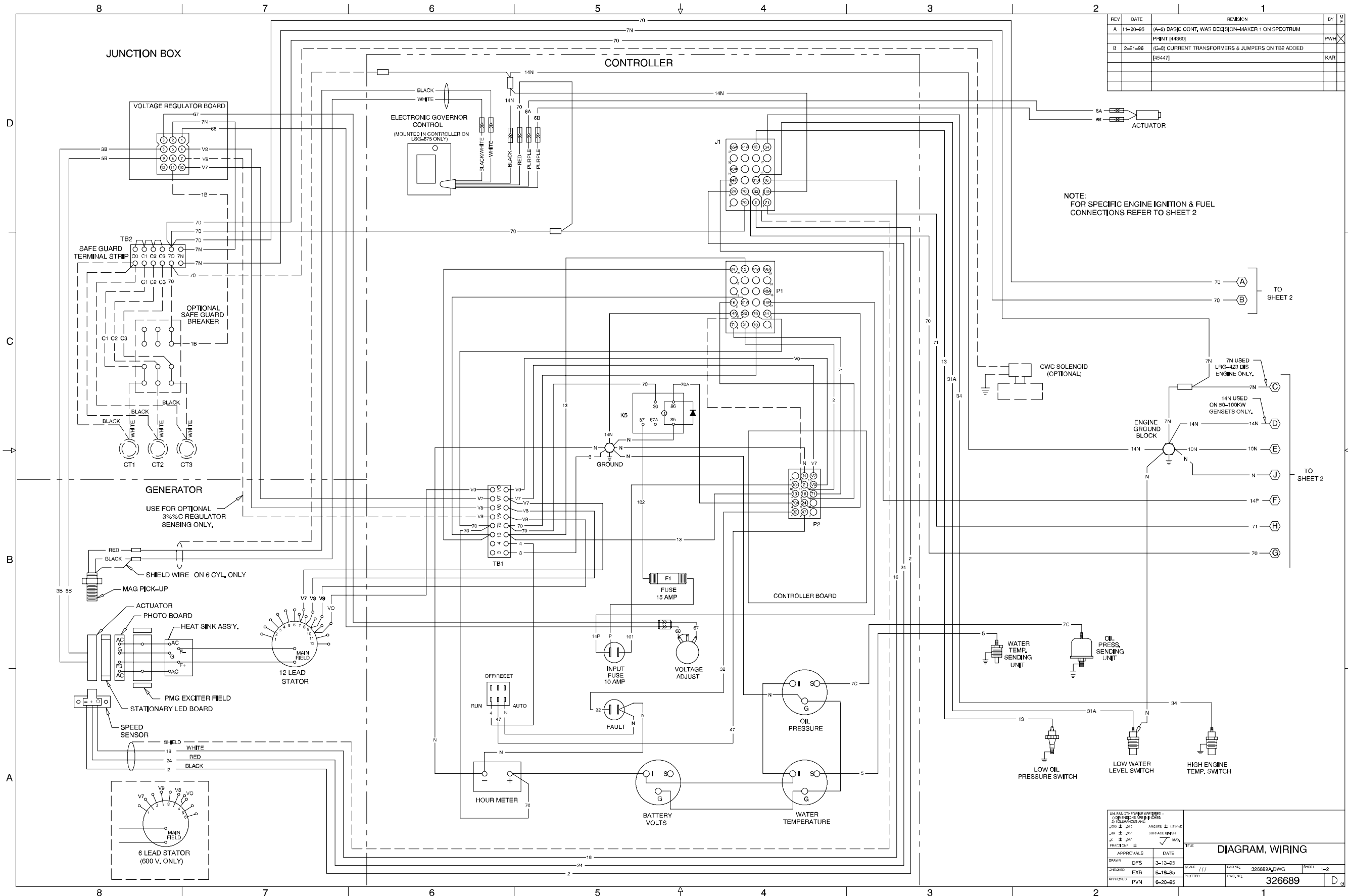
NOTE:
TAPE & SECURE LEADS 5 & 7C ON BOTH
ENDS WHEN WATER TEMP. & OIL PRESSURE
SENDING UNITS ARE NOT USED.

UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES ANGLES ± 15° UNLESS OTHERWISE SPECIFIED		SCALE: 1" = 1"		DRAWING NO: 326617A/DWG		SHEET: 1-2	
APPROVALS:	DATE:	FILE:		DIAGRAM, WIRING			
DRAWN: DPS	DATE: 3-13-95						
CHECKED: EXB	DATE: 6-19-95						
APPROVED: PVN	DATE: 6-20-95			326617		D	

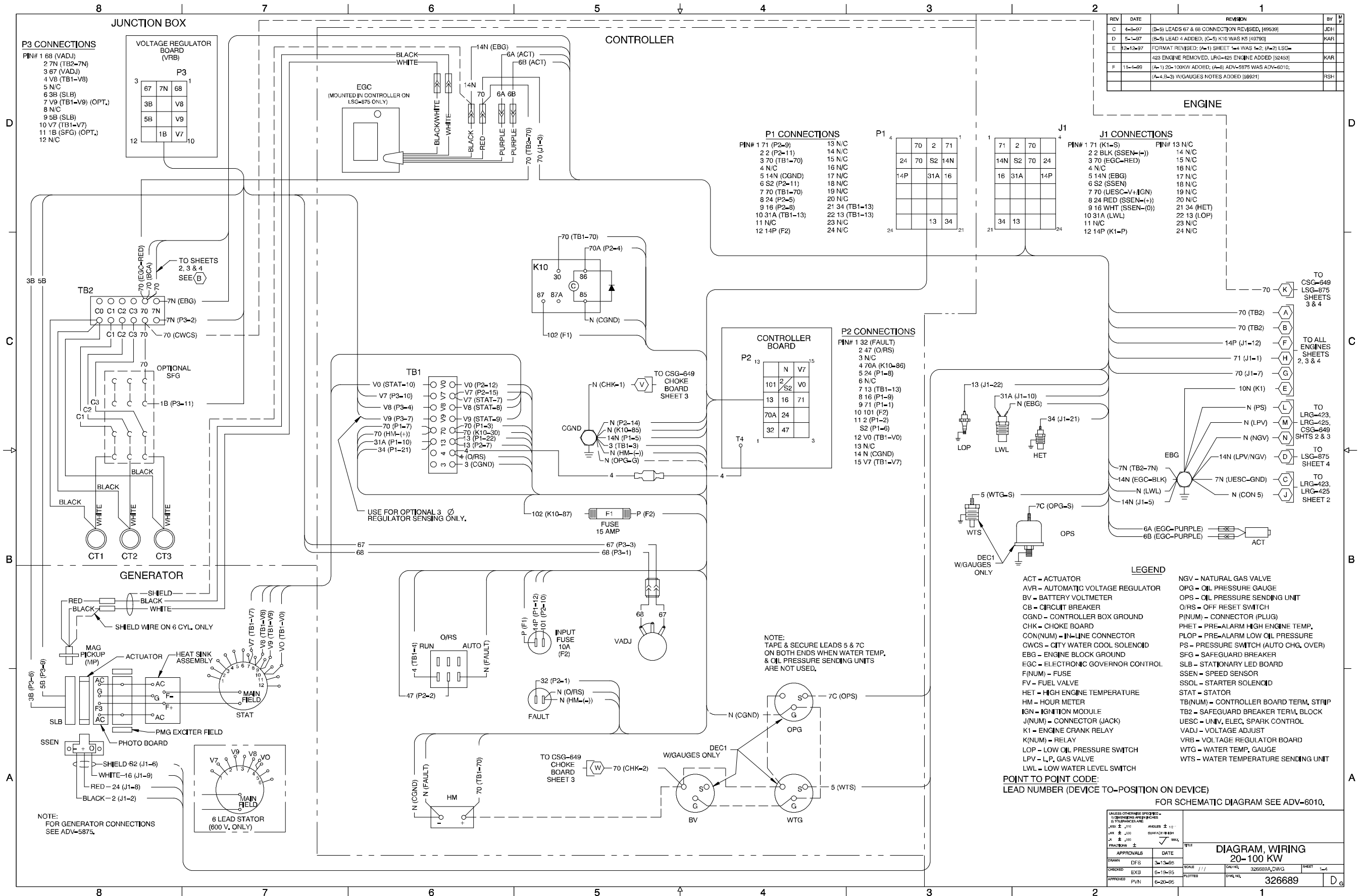
Decision-Maker™ 1 Controller, Std w/o Engine Gauges, Point-to-Point Wiring Diagram, Sheet 1, 326617A-B



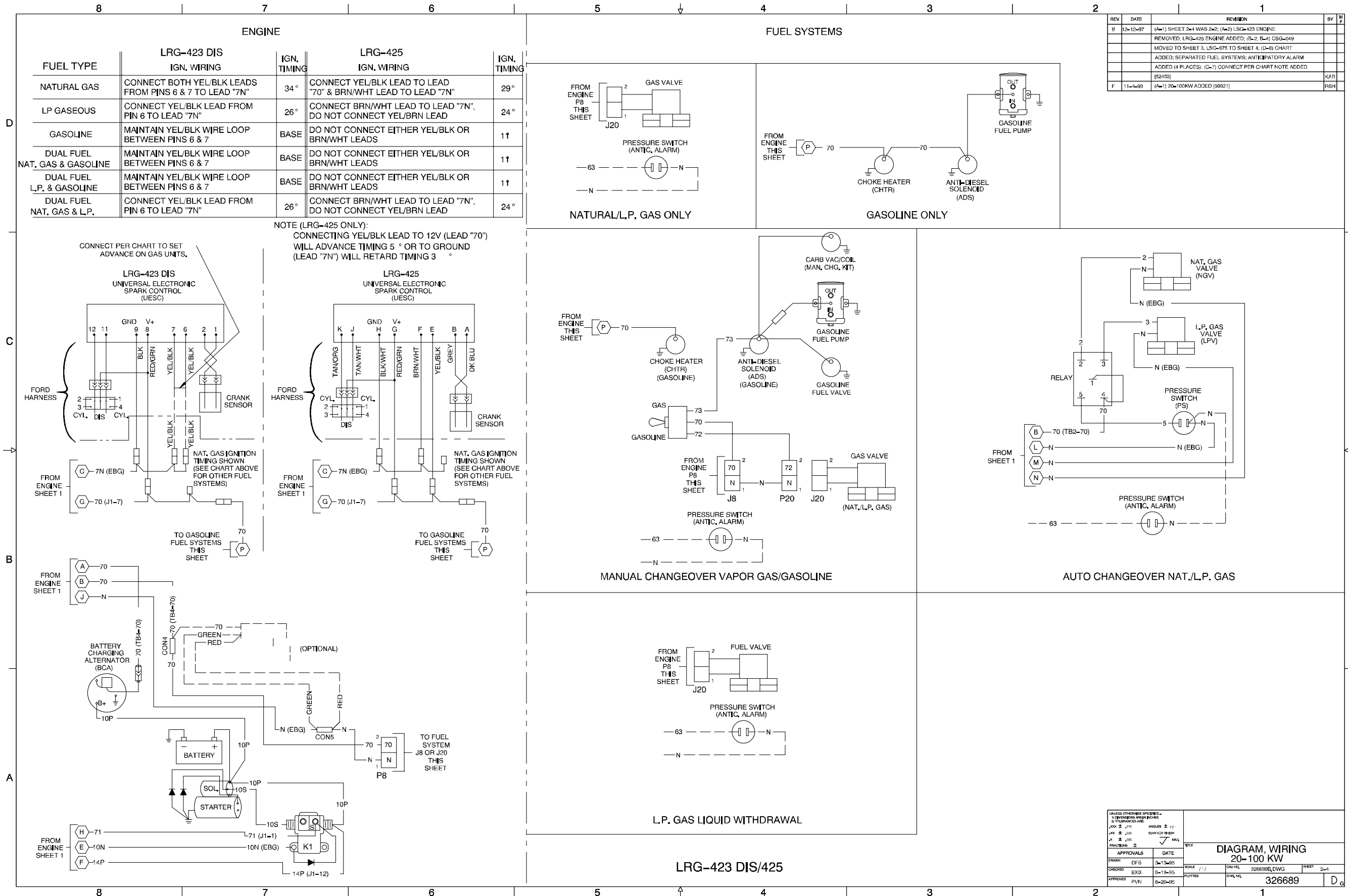
Decision-Maker™ 1 Controller, Std w/o Engine Gauges, Point-to-Point Wiring Diagram, Sheet 2, 326617B-A

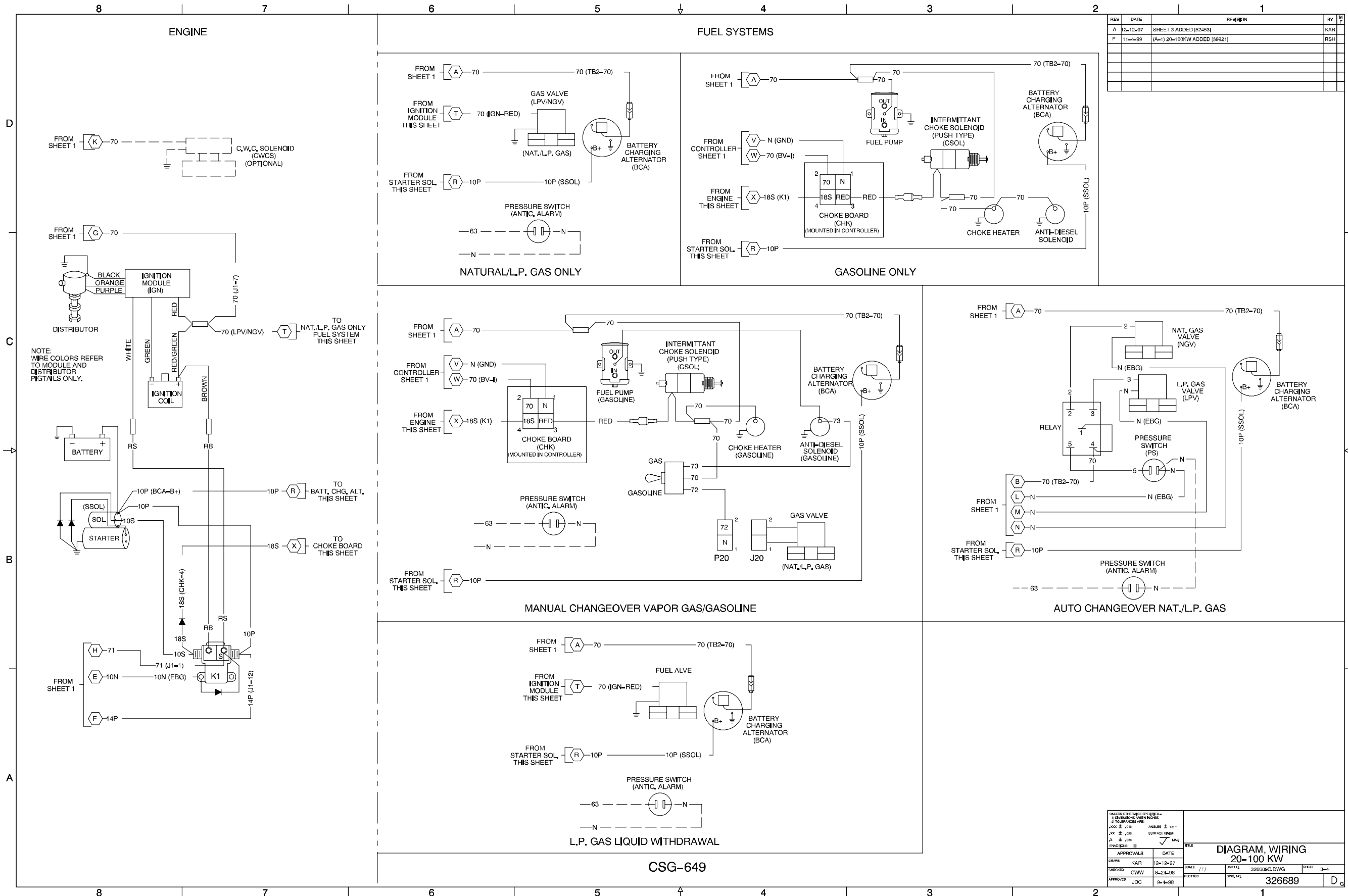


Decision-Maker™ 1 Controller, Std with Engine Gauges, Point-to-Point Wiring Diagram, Sheet 1, 326689A-B

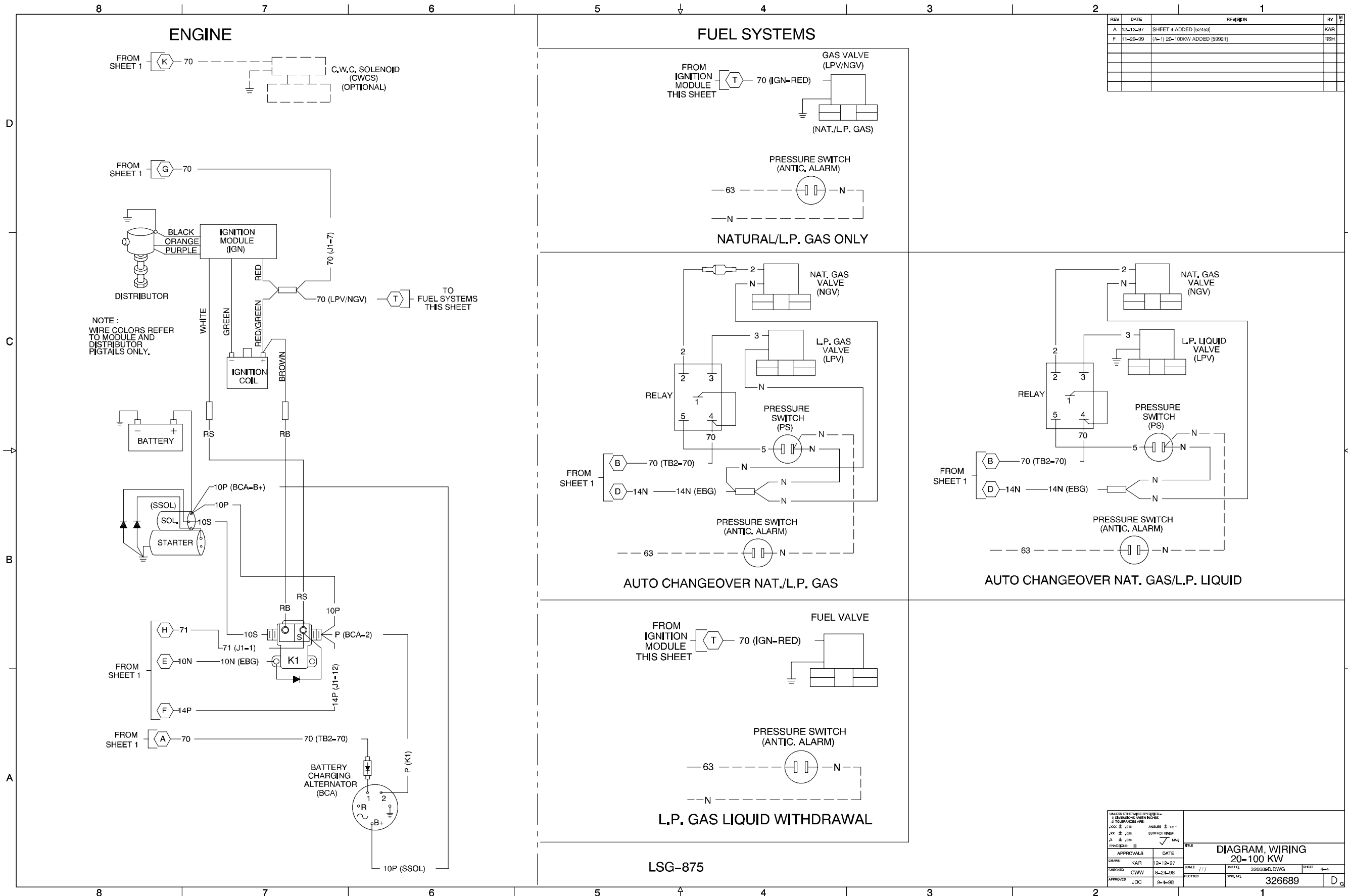


Decision-Maker™ 1 Controller, Standard, Point-to-Point Wiring Diagram, Sheet 1, 326689A-F

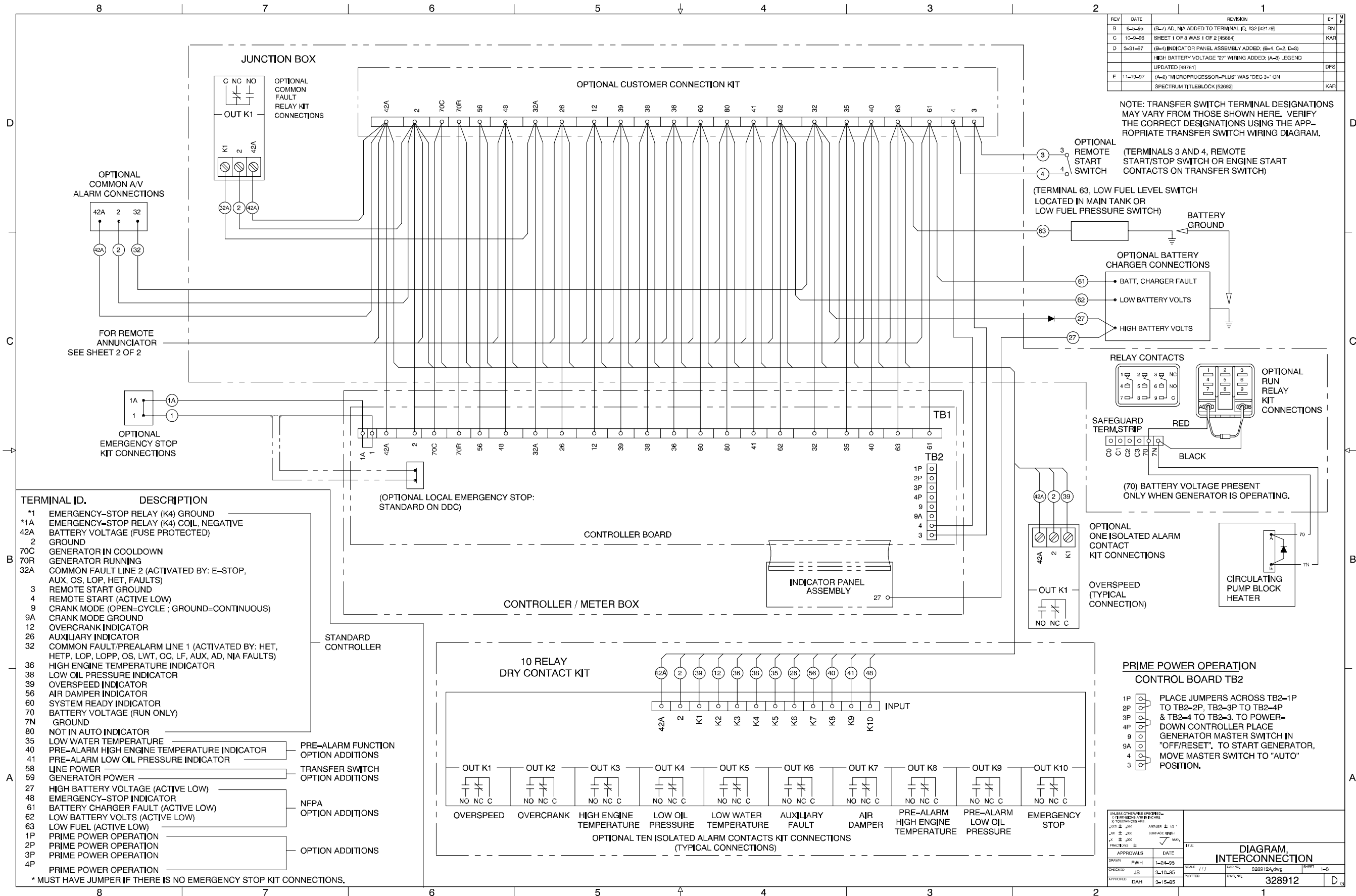




Decision-Maker™ 1 Controller, Standard, Point-to-Point Wiring Diagram, Sheet 3, 326689C-F



Decision-Maker™ 1 Controller, Standard, Point-to-Point Wiring Diagram, Sheet 4, 326689D-F

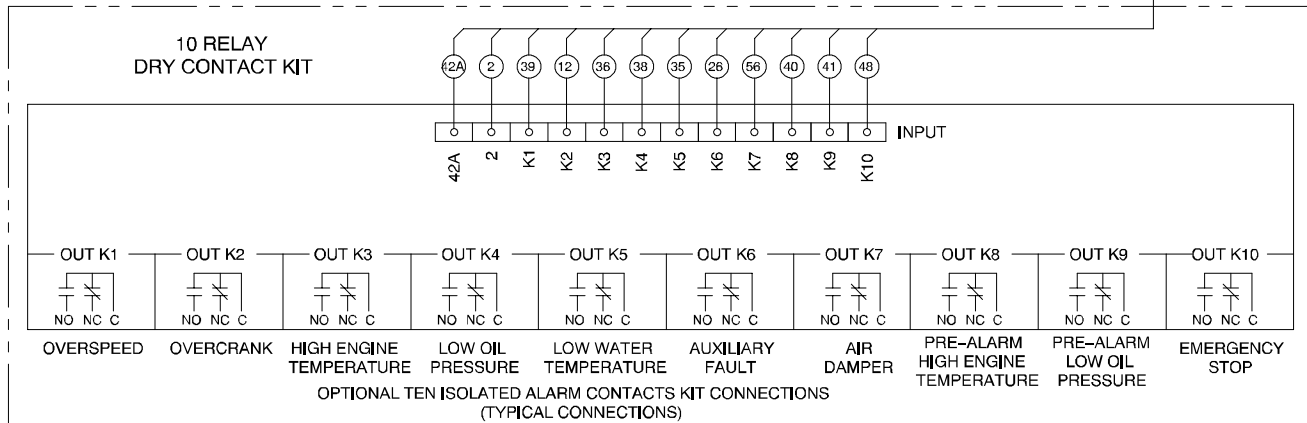
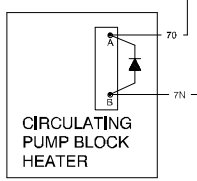
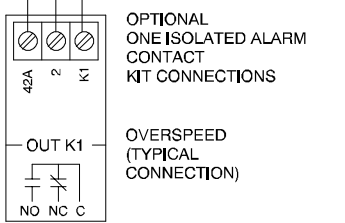
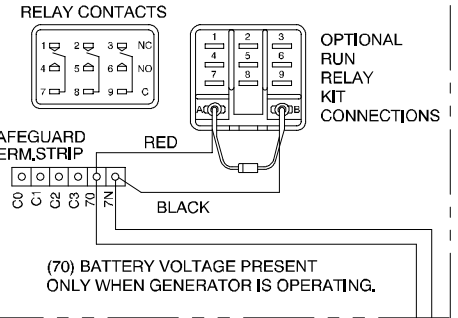
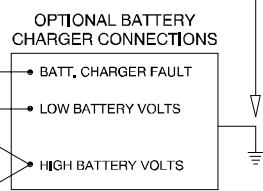


REV	DATE	REVISION	BY	FILE
B	6-2-95	(B-7) AD, NIA ADDED TO TERMINAL ID, #32 (42178)	RN	
C	10-9-96	SHEET 1 OF 3 WAS 1 OF 2 (45664)	KAR	
D	3-31-97	(B-1) INDICATOR PANEL ASSEMBLY ADDED, (E-1, C-2, D-3) UPDATED (49781)	DFS	
E	11-19-97	(A-2) "MICROPROCESSOR-PLUS" WAS "DEC 31" ON SPECTRUM TITLEBLOCK (52692)	KAR	

NOTE: TRANSFER SWITCH TERMINAL DESIGNATIONS MAY VARY FROM THOSE SHOWN HERE. VERIFY THE CORRECT DESIGNATIONS USING THE APPROPRIATE TRANSFER SWITCH WIRING DIAGRAM.

(TERMINALS 3 AND 4, REMOTE START/STOP SWITCH OR ENGINE START CONTACTS ON TRANSFER SWITCH)

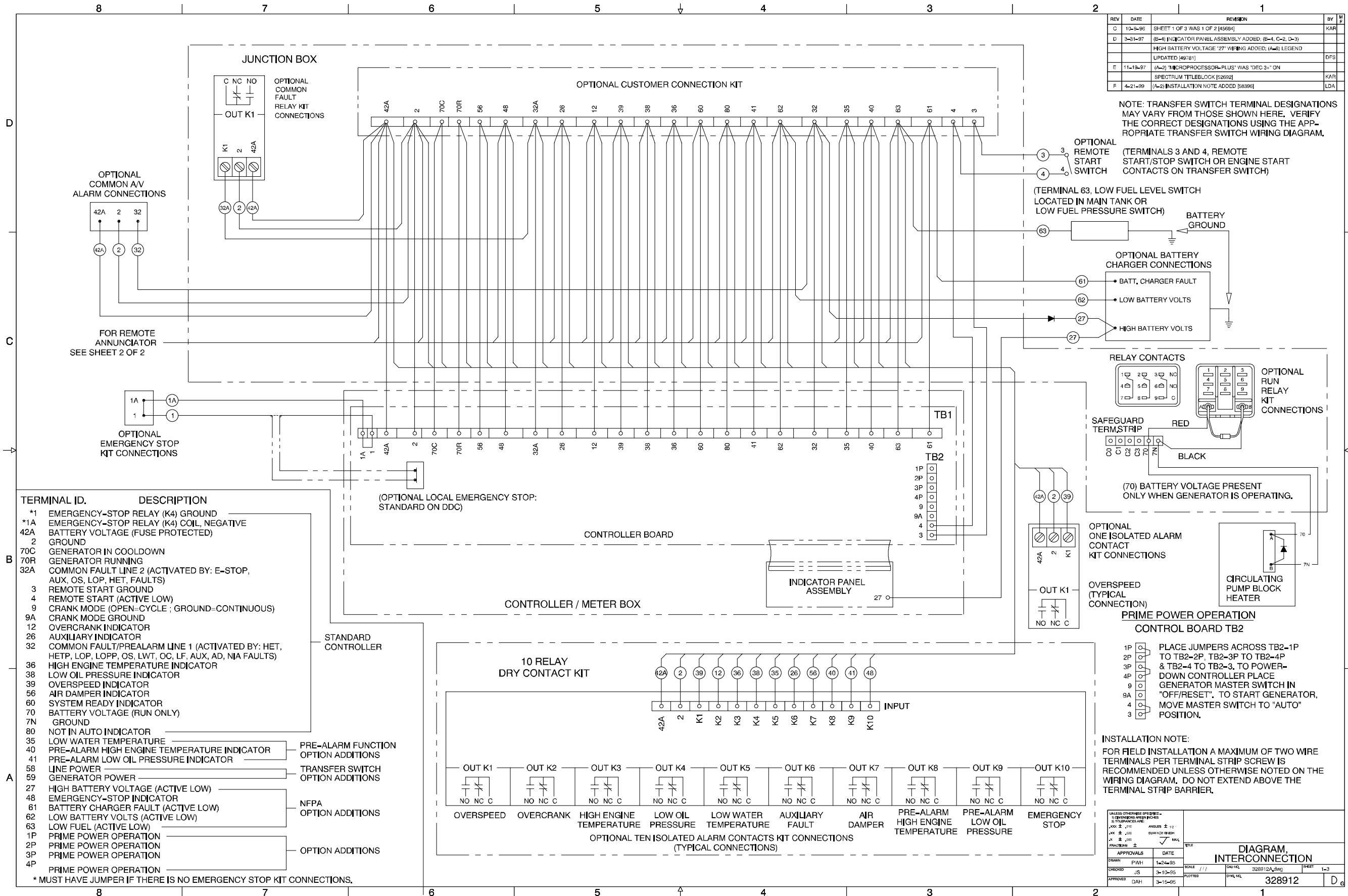
OPTIONAL REMOTE START SWITCH (TERMINAL 63, LOW FUEL LEVEL SWITCH LOCATED IN MAIN TANK OR LOW FUEL PRESSURE SWITCH)



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. SURFACE FINISH: MAX. SURFACE FINISH: 32 R.M.S. ANGLE: ± 10°. TOLERANCES: ± 0.005

APPROVALS	DATE	FILE
DRAWN: PWH	1-24-95	DIAGRAM INTERCONNECTION
CHECKED: JS	3-10-95	SCALE: 1/1
APPROVED: DAH	3-15-95	DRAWING NO.: 328912A.dwg
		SHEET: 1-3
		PLOTTED: 328912

Microprocessor Controller, Accessory Connections, Accessories, 328912A-E

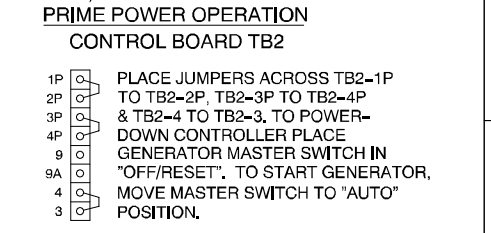
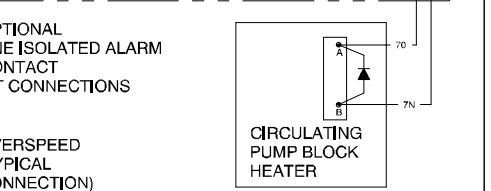
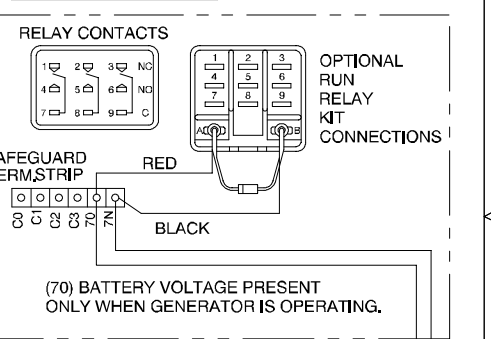
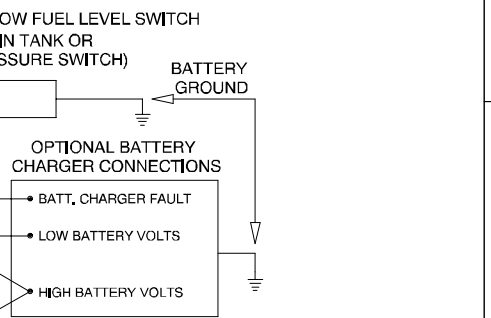


REV	DATE	REVISION	BY	CHK
C	10-3-96	SHEET 1 OF 3 WAS 1 OF 2 (45684)	KAR	
D	3-31-97	(B-1) INDICATOR PANEL ASSEMBLY ADDED; (B-1, C-2, D-3) UPDATED (49781)	DFS	
E	11-13-97	(A-2) MICROPROCESSOR-PLUS WAS "DEC 31" ON SPECTRUM TITLEBLOCK (52692)	KAR	
F	4-21-99	(A-2) INSTALLATION NOTE ADDED (56396)	LDA	

NOTE: TRANSFER SWITCH TERMINAL DESIGNATIONS MAY VARY FROM THOSE SHOWN HERE. VERIFY THE CORRECT DESIGNATIONS USING THE APPROPRIATE TRANSFER SWITCH WIRING DIAGRAM.

OPTIONAL REMOTE START SWITCH (TERMINALS 3 AND 4, REMOTE START/STOP SWITCH OR ENGINE START CONTACTS ON TRANSFER SWITCH)

(TERMINAL 63, LOW FUEL LEVEL SWITCH LOCATED IN MAIN TANK OR LOW FUEL PRESSURE SWITCH)



INSTALLATION NOTE:
FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE TERMINALS PER TERMINAL STRIP SCREW IS RECOMMENDED UNLESS OTHERWISE NOTED ON THE WIRING DIAGRAM. DO NOT EXTEND ABOVE THE TERMINAL STRIP BARRIER.

TERMINAL ID.	DESCRIPTION
*1	EMERGENCY-STOP RELAY (K4) GROUND
*1A	EMERGENCY-STOP RELAY (K4) COIL, NEGATIVE
42A	BATTERY VOLTAGE (FUSE PROTECTED)
2	GROUND
70C	GENERATOR IN COOLDOWN
70R	GENERATOR RUNNING
32A	COMMON FAULT LINE 2 (ACTIVATED BY: E-STOP, AUX, OS, LOP, HET, FAULTS)
3	REMOTE START GROUND
4	REMOTE START (ACTIVE LOW)
9	CRANK MODE (OPEN-CYCLE; GROUND-CONTINUOUS)
9A	CRANK MODE GROUND
12	OVERCRANK INDICATOR
26	AUXILIARY INDICATOR
32	COMMON FAULT/PREALARM LINE 1 (ACTIVATED BY: HET, HETP, LOP, LOPP, OS, LWT, OC, LF, AUX, AD, NIA FAULTS)
36	HIGH ENGINE TEMPERATURE INDICATOR
38	LOW OIL PRESSURE INDICATOR
39	OVERSPEED INDICATOR
56	AIR DAMPER INDICATOR
60	SYSTEM READY INDICATOR
70	BATTERY VOLTAGE (RUN ONLY)
7N	GROUND
80	NOT IN AUTO INDICATOR
35	LOW WATER TEMPERATURE
40	PRE-ALARM HIGH ENGINE TEMPERATURE INDICATOR
41	PRE-ALARM LOW OIL PRESSURE INDICATOR
58	LINE POWER
59	GENERATOR POWER
27	HIGH BATTERY VOLTAGE (ACTIVE LOW)
48	EMERGENCY-STOP INDICATOR
61	BATTERY CHARGER FAULT (ACTIVE LOW)
62	LOW BATTERY VOLTS (ACTIVE LOW)
63	LOW FUEL (ACTIVE LOW)
1P	PRIME POWER OPERATION
2P	PRIME POWER OPERATION
3P	PRIME POWER OPERATION
4P	PRIME POWER OPERATION

PRE-ALARM FUNCTION OPTION ADDITIONS

TRANSFER SWITCH OPTION ADDITIONS

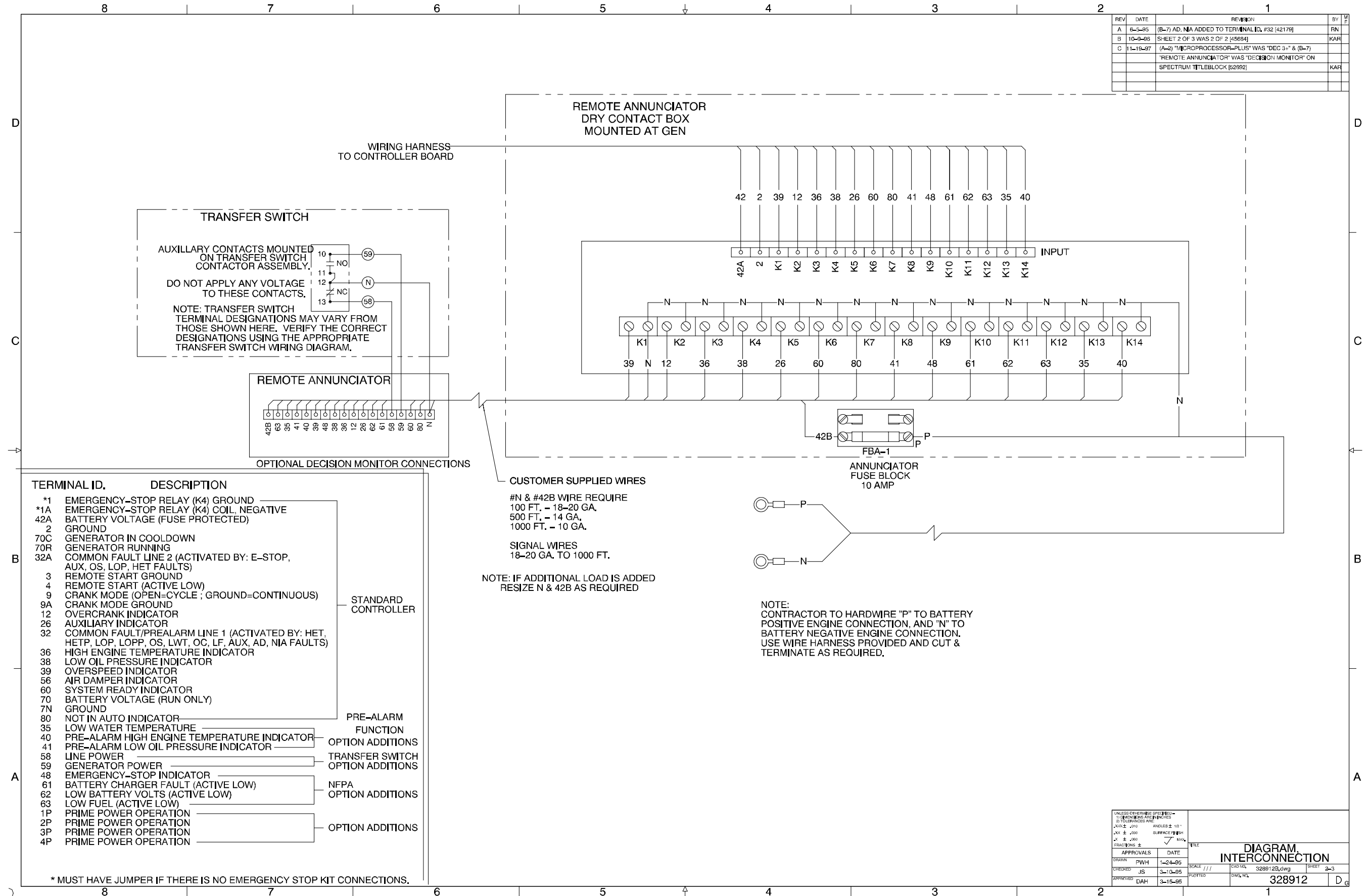
NFPA OPTION ADDITIONS

OPTION ADDITIONS

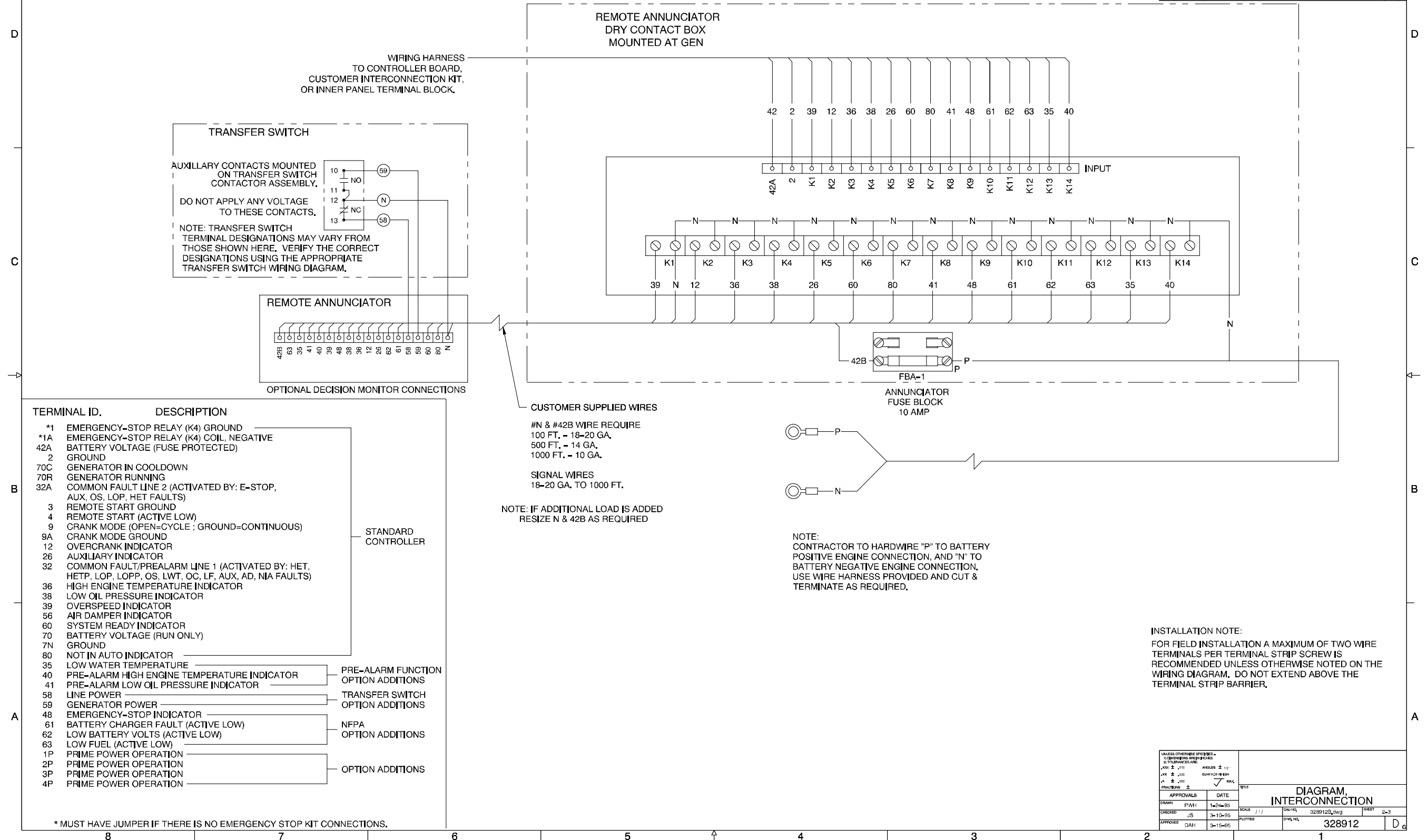
* MUST HAVE JUMPER IF THERE IS NO EMERGENCY STOP KIT CONNECTIONS.

Microprocessor Controller, Accessory Connections, Accessories, 328912A-F

REV	DATE	REVISION	BY
A	6-5-95	(B-7) AD, NIA ADDED TO TERMINAL ID, #32 (42179)	RN
B	10-9-95	SHEET 2 OF 3 WAS 2 OF 2 (45684)	KAR
C	11-19-97	(A-2) "MICROPROCESSOR-PLUS" WAS "DEC 3" & (B-7) "REMOTE ANNUNCIATOR" WAS "DECISION MONITOR" ON SPECTRUM TITLEBLOCK (52992)	KAR

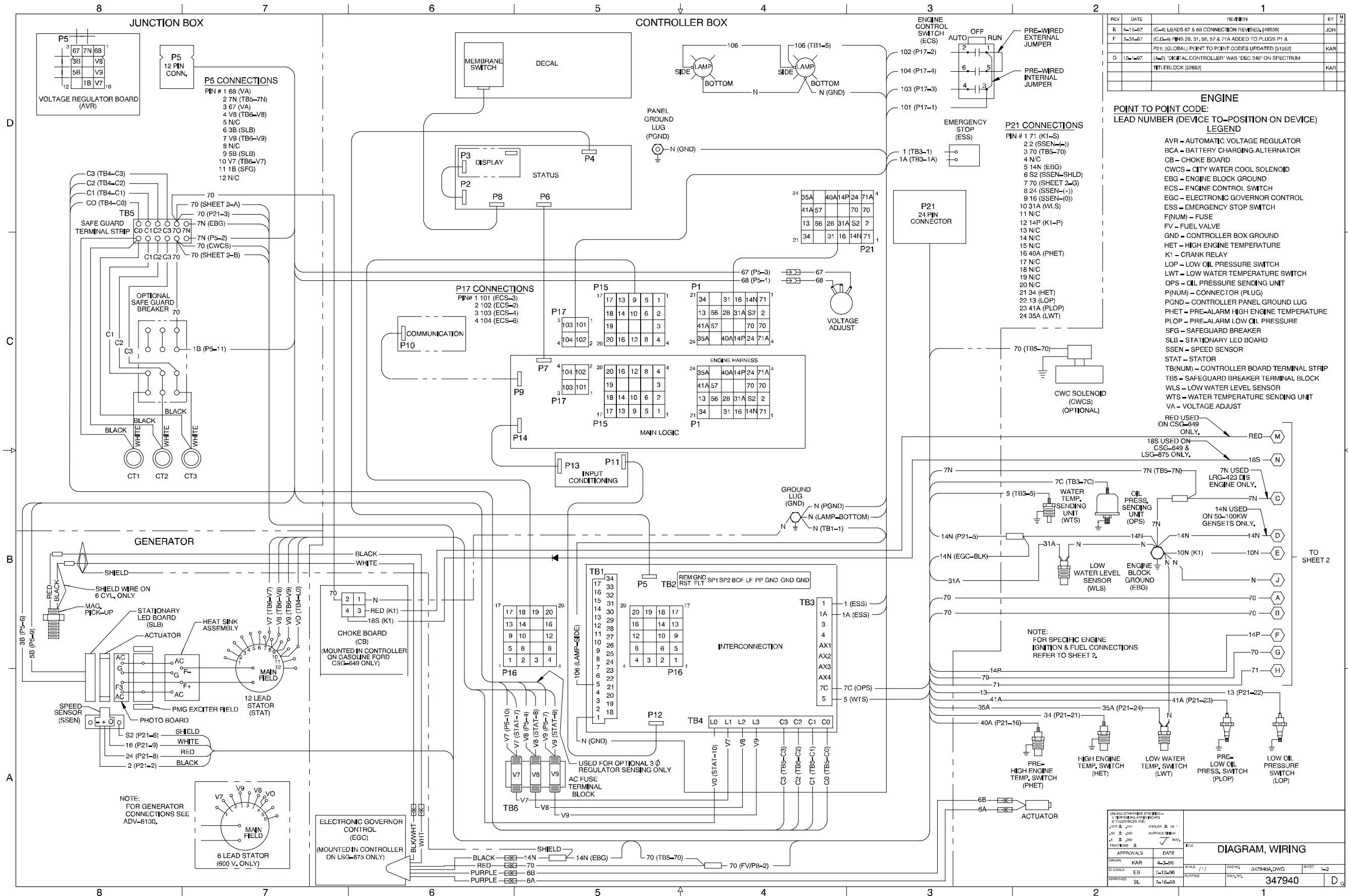


REV	DATE	REVISION	BY	CHK
C	11-19-97	(A=2) MICROPROCESSOR PLUS WAS DEC 3+ 8 (B=7)		
		"REMOTE ANNUNCIATOR" WAS "DECISION MONITOR" ON SPECTRUM TITLEBLOCK (5692)	KAR	
D	9-3-98	(A=2) 20-2000 KW WAS 20-1600 KW; (D=8) CUSTOMER INTERCONNECTION KIT, OR INNER PANEL TERMINAL BLOCK, ADDED (56975)	LDS	
F	4-21-99	(A=2) INSTALLATION NOTE ADDED (56396)	LDA	

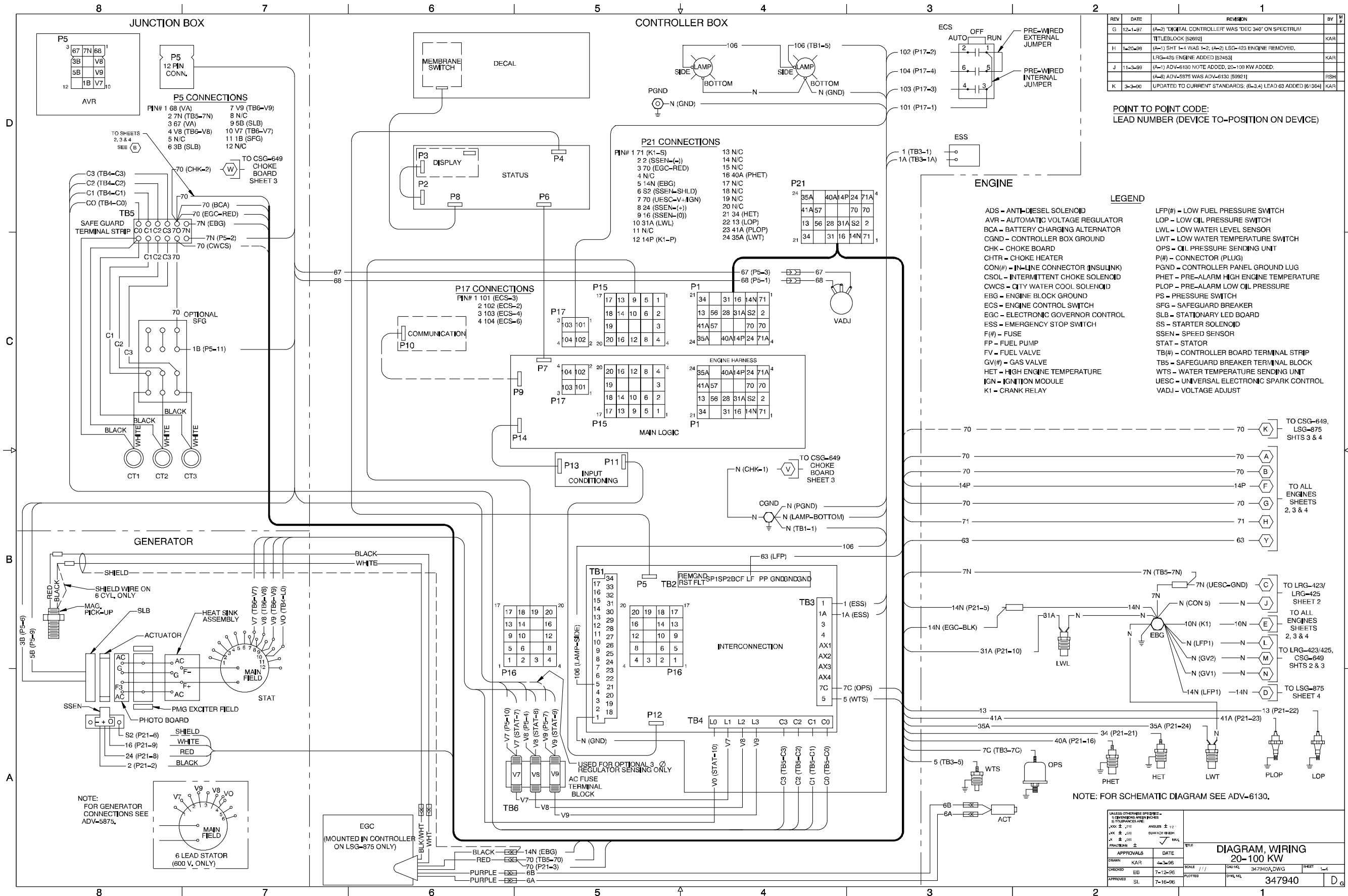


* MUST HAVE JUMPER IF THERE IS NO EMERGENCY STOP KIT CONNECTIONS.

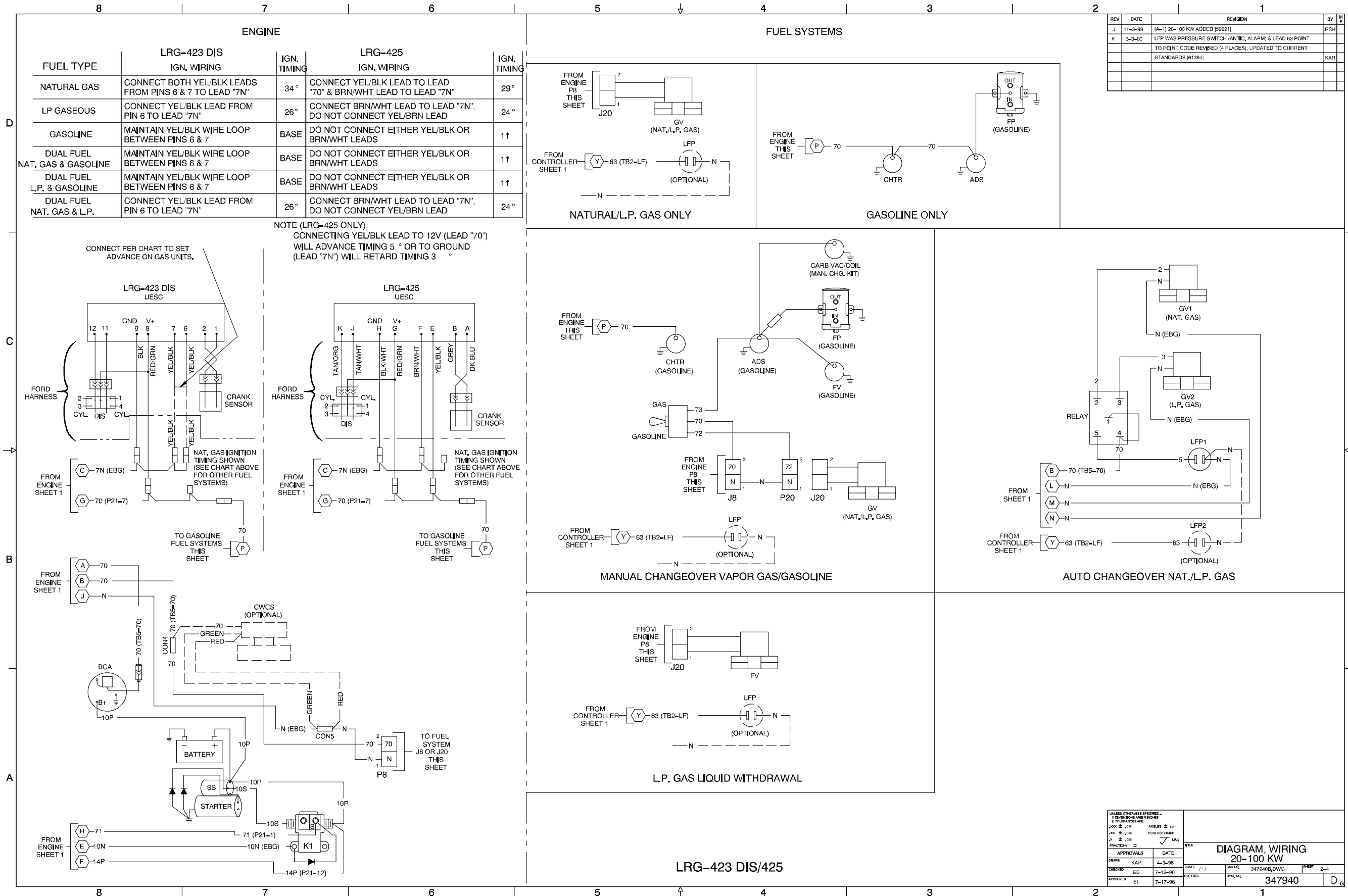
UNLESS OTHERWISE SPECIFIED: 1. DIMENSIONS ARE IN INCHES 2. TOLERANCES ARE: FRACTIONS ± .015 ANGLES ± 10° DECIMALS ± .010 SURFACE FINISH MAX. ± .015 FINISHES: 1.0		DATE	
APPROVALS	DATE	TITLE	
DRAWN: PWH	1-24-95	DIAGRAM, INTERCONNECTION	
CHECKED: JS	3-10-95	SCALE: 1/1	SHEET: 2-3
APPROVED: DAH	3-15-95	PLOTTED	DWG. NO. 328912



Digital Controller, Point-to-Point Wiring Diagram, Sheet 1, 347940-A-G



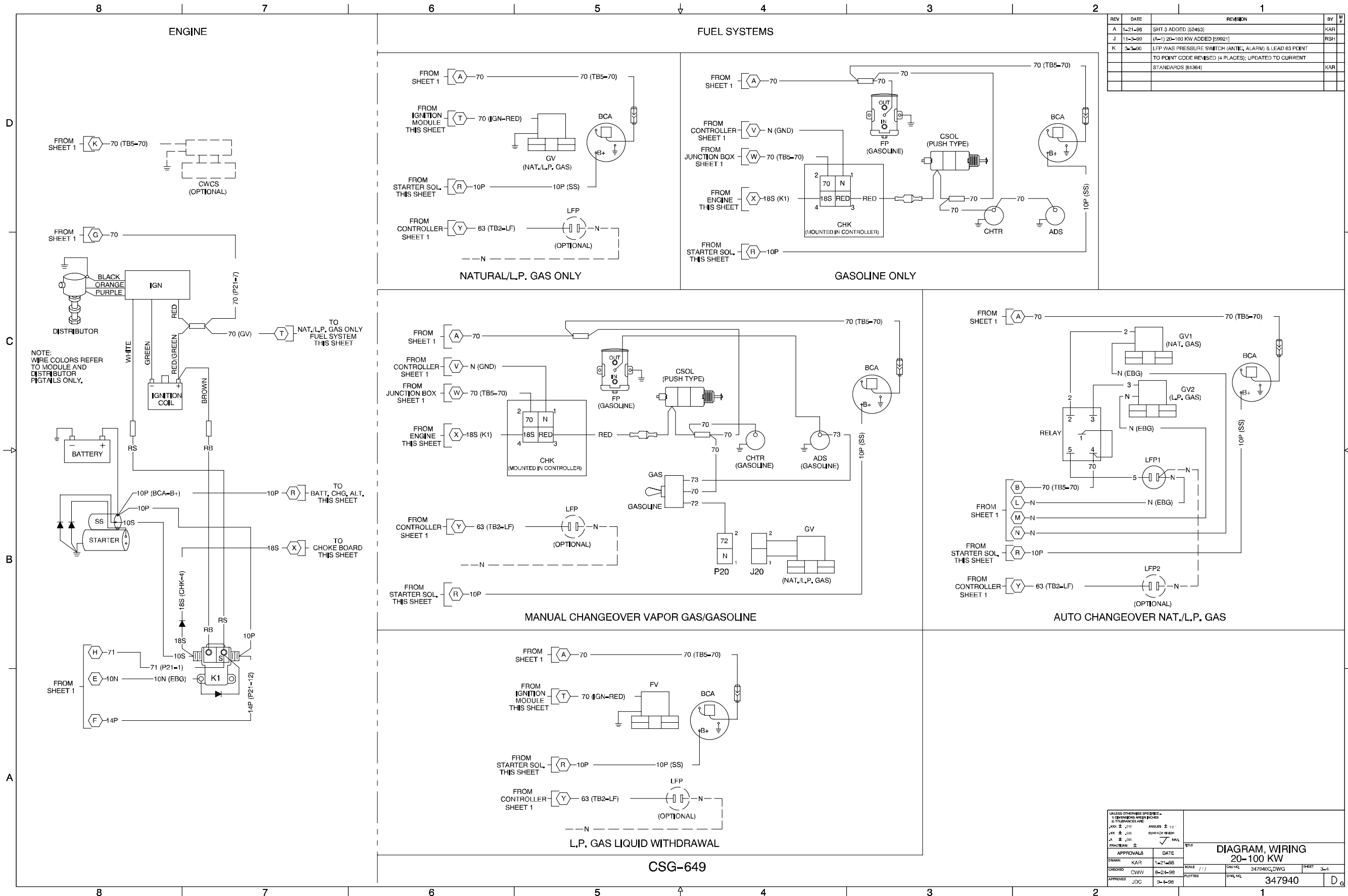
Digital Controller, Point-to-Point Wiring Diagram, Sheet 1, 347940A-K



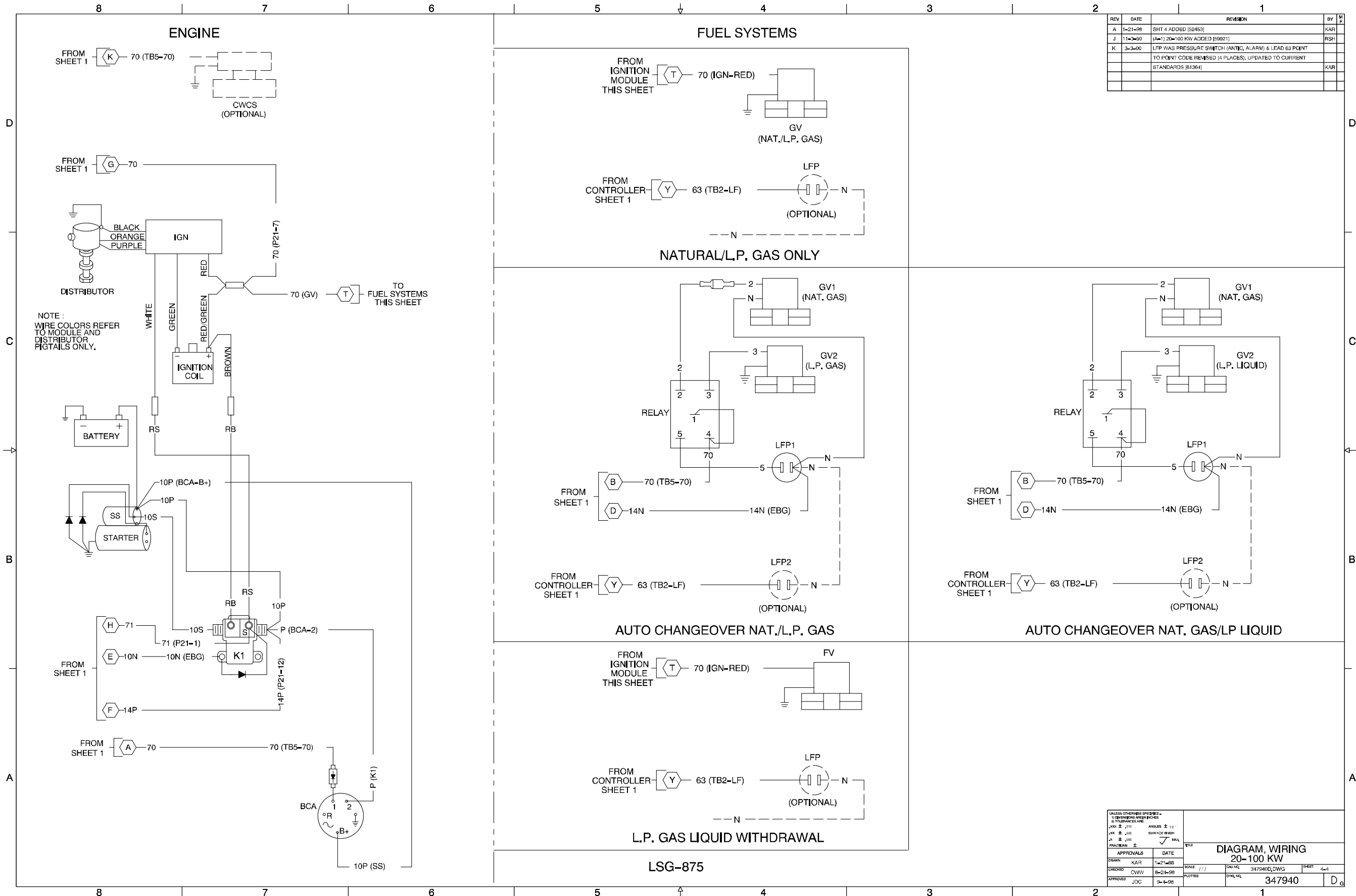
REV	DATE	REVISION	BY
J	11-2-99	(Rev) 20-100 KW ADDED [59621]	FSH
K	3-3-00	LFP WAS PRESSURE SWITCH (ANTIC, ALARM) & LEAD 63 POINT TO POINT CODE REVERSED (4 PLACES); UPDATED TO CURRENT STANDARDS [61364]	KAR

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS ARE: ANGLES ± 10° FINISHES: SURFACE FINISH TOLERANCES: ±		DATE: 7-12-99		DRAWN: KAR	
APPROVALS: SL		DATE: 7-17-99		SCALE: 1/1	
CHECKED: EB		PLOTTED: 7-17-99		SHEET: 2-4	
APPROVED: SL		DATE: 7-17-99		DRAWING NO: 347940	

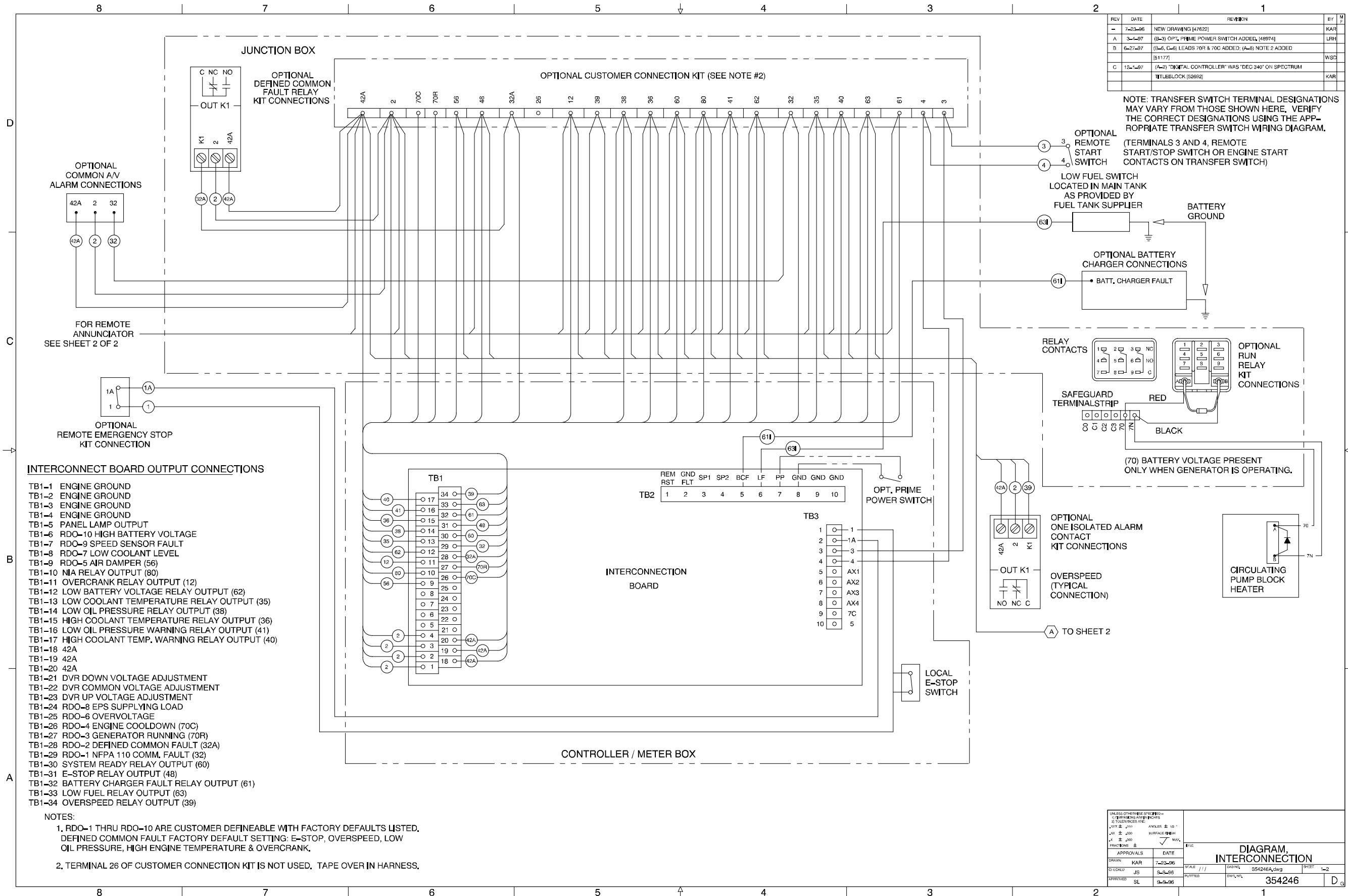
Digital Controller, Point-to-Point Wiring Diagram, Sheet 2, 347940B-K



Digital Controller, Point-to-Point Wiring Diagram, Sheet 3, 347940C-K



Digital Controller, Point-to-Point Wiring Diagram, Sheet 4, 347940D-K



REV	DATE	REVISION	BY	MR
-	7-23-96	NEW DRAWING (47622)	KAR	
A	3-1-97	(B-3) OPT. PRIME POWER SWITCH ADDED. (48974)	LRH	
B	6-27-97	(B-5, C-6) LEADS 70R & 70C ADDED. (A-6) NOTE 2 ADDED		
C	12-1-97	(A-2) "DIGITAL CONTROLLER" WAS "DEC 340" ON SPECTRUM		WSD
		TITLEBLOCK (52692)	KAR	

NOTE: TRANSFER SWITCH TERMINAL DESIGNATIONS MAY VARY FROM THOSE SHOWN HERE, VERIFY THE CORRECT DESIGNATIONS USING THE APPROPRIATE TRANSFER SWITCH WIRING DIAGRAM.

(TERMINALS 3 AND 4, REMOTE START/STOP SWITCH OR ENGINE START CONTACTS ON TRANSFER SWITCH)

INTERCONNECT BOARD OUTPUT CONNECTIONS

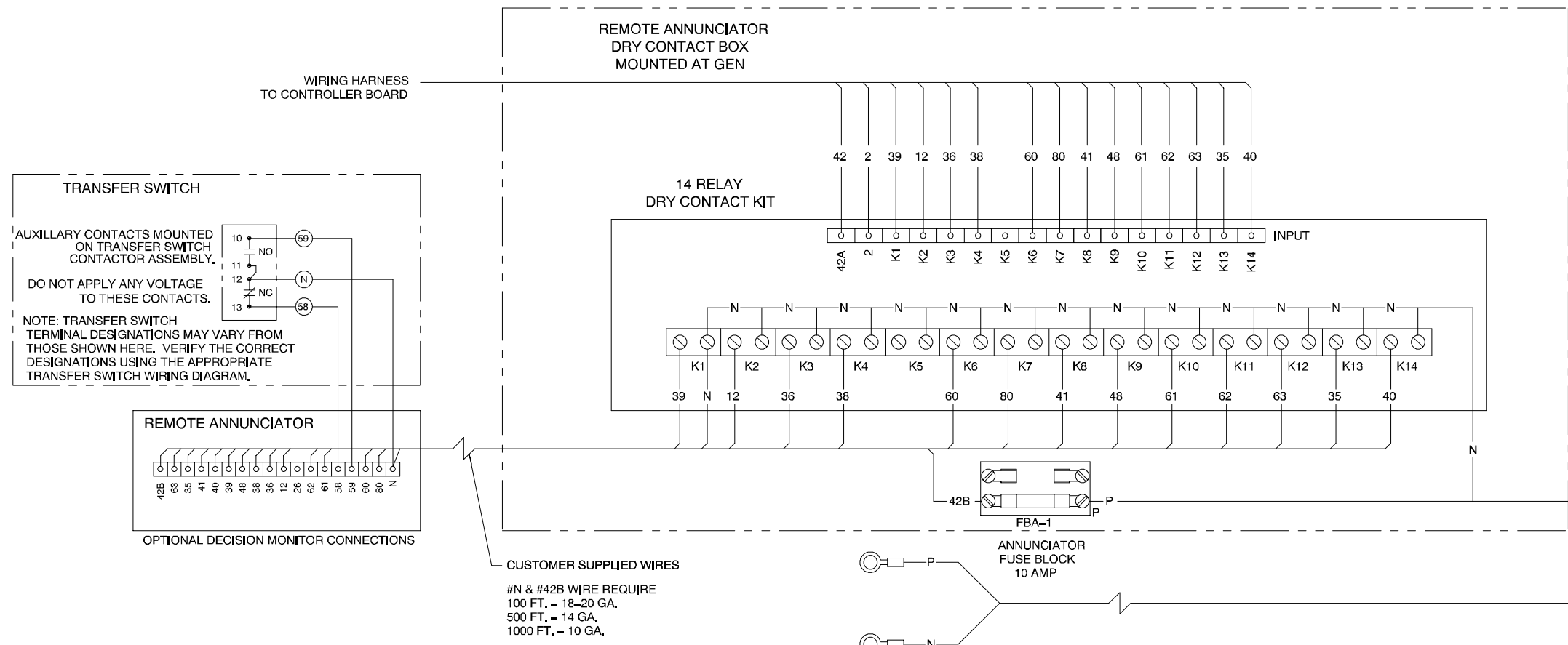
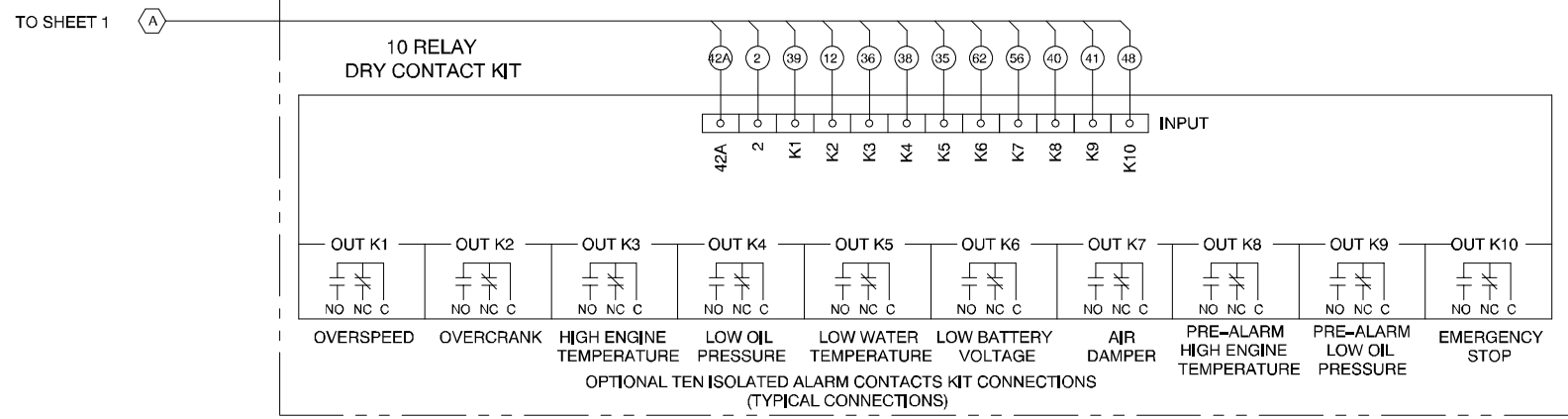
- TB1-1 ENGINE GROUND
- TB1-2 ENGINE GROUND
- TB1-3 ENGINE GROUND
- TB1-4 ENGINE GROUND
- TB1-5 PANEL LAMP OUTPUT
- TB1-6 RDO-10 HIGH BATTERY VOLTAGE
- TB1-7 RDO-9 SPEED SENSOR FAULT
- TB1-8 RDO-7 LOW COOLANT LEVEL
- TB1-9 RDO-5 AIR DAMPER (56)
- TB1-10 N/A RELAY OUTPUT (80)
- TB1-11 OVERCRANK RELAY OUTPUT (12)
- TB1-12 LOW BATTERY VOLTAGE RELAY OUTPUT (62)
- TB1-13 LOW COOLANT TEMPERATURE RELAY OUTPUT (35)
- TB1-14 LOW OIL PRESSURE RELAY OUTPUT (38)
- TB1-15 HIGH COOLANT TEMPERATURE RELAY OUTPUT (36)
- TB1-16 LOW OIL PRESSURE WARNING RELAY OUTPUT (41)
- TB1-17 HIGH COOLANT TEMP. WARNING RELAY OUTPUT (40)
- TB1-18 42A
- TB1-19 42A
- TB1-20 42A
- TB1-21 DVR DOWN VOLTAGE ADJUSTMENT
- TB1-22 DVR COMMON VOLTAGE ADJUSTMENT
- TB1-23 DVR UP VOLTAGE ADJUSTMENT
- TB1-24 RDO-8 EPS SUPPLYING LOAD
- TB1-25 RDO-6 OVERVOLTAGE
- TB1-26 RDO-4 ENGINE COOLDOWN (70C)
- TB1-27 RDO-3 GENERATOR RUNNING (70R)
- TB1-28 RDO-2 DEFINED COMMON FAULT (32A)
- TB1-29 RDO-1 NFPA 110 COMM. FAULT (32)
- TB1-30 SYSTEM READY RELAY OUTPUT (60)
- TB1-31 E-STOP RELAY OUTPUT (48)
- TB1-32 BATTERY CHARGER FAULT RELAY OUTPUT (61)
- TB1-33 LOW FUEL RELAY OUTPUT (63)
- TB1-34 OVERSPEED RELAY OUTPUT (39)

- NOTES:
- RDO-1 THRU RDO-10 ARE CUSTOMER DEFINEABLE WITH FACTORY DEFAULTS LISTED. DEFINED COMMON FAULT FACTORY DEFAULT SETTING: E-STOP, OVERSPEED, LOW OIL PRESSURE, HIGH ENGINE TEMPERATURE & OVERCRANK.
 - TERMINAL 26 OF CUSTOMER CONNECTION KIT IS NOT USED. TAPE OVER IN HARNESS.

UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES DIMENSIONS ARE: FRACTIONS DECIMALS ANGLES ± 10° SURFACE FINISH HATCHING		FILE	
APPROVALS		DATE	
DRAWN: KAR	DATE: 7-23-96	SCALE: 1/1	DWG. NO.: 354246A.dwg
CHECKED: JS	DATE: 8-5-96	PLOTTED:	SHEET: 1-2
APPROVED: SL	DATE: 8-9-96	354246	

Digital Controller, Accessory Connections, Accessories, 354246A-C

REV	DATE	REVISION	BY	MR
-	7-23-96	NEW DRAWING (47822)	KAR	
A	12-1-97	(A-2) "DIGITAL CONTROLLER" WAS "DEC 340" ON SPECTRUM	KAR	
		TITLEBLOCK (52692)	KAR	

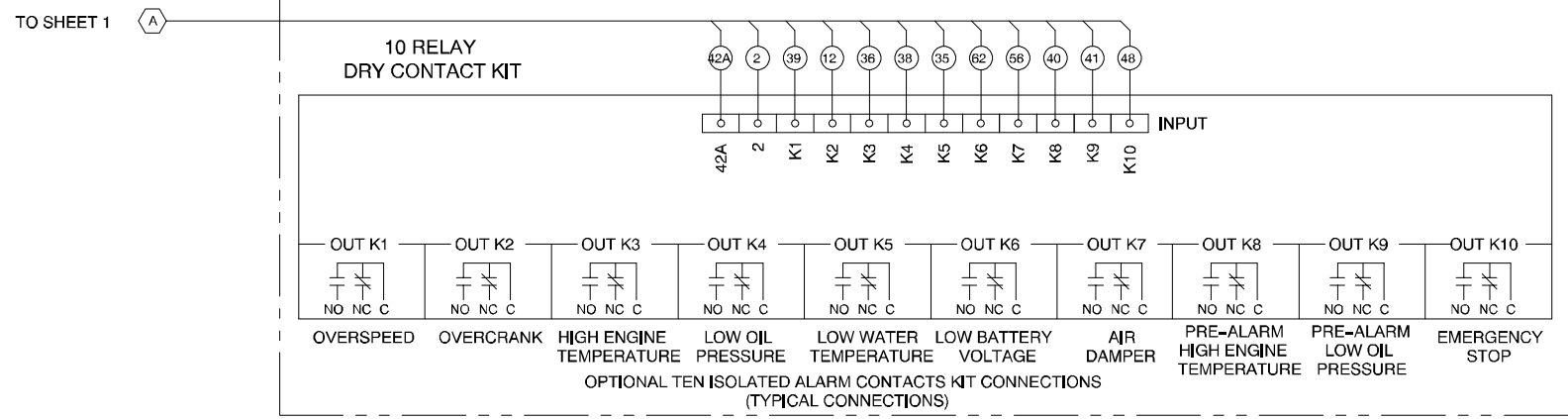


APPROVALS		DATE	SCALE	FILE
DRAWN	KAR	7-23-96	1/1	354246B.dwg
CHECKED	JS	8-5-96		
APPROVED	SL	8-9-96		

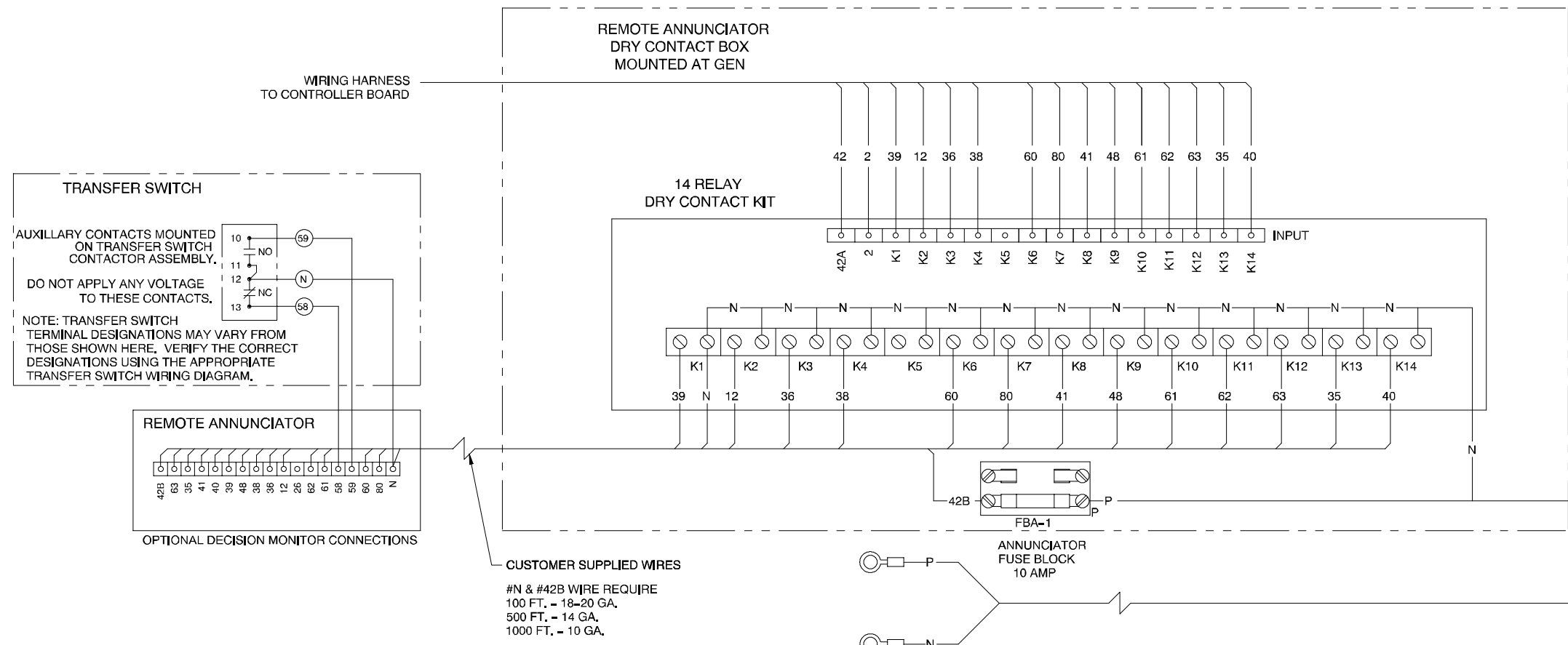
UNLESS OTHERWISE SPECIFIED -		DIMENSIONS ARE		ANGLES ± 10°	
DIMENSIONS ARE		SURFACE FINISH		MAX.	
HATCHING		✓			
DIAGRAM INTERCONNECTION				SHEET 2-2	
354246				D	

Digital Controller, Accessory Connections, Remote Annunciator Kit, 354246B-A

REV	DATE	REVISION	BY
-	7-23-06	NEW DRAWING (47822)	KAR
A	12-1-07	(A-2) DIGITAL CONTROLLER WAS 'DEC 340' ON SPECTRUM	
		TITLEBLOCK (2699)	KAR
D	4-15-09	(C-2) INSTALLATION NOTE ADDED (3839)	LDA



INSTALLATION NOTE:
 FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE TERMINALS PER TERMINAL STRIP SCREW IS RECOMMENDED UNLESS OTHERWISE NOTED ON THE WIRING DIAGRAM. DO NOT EXTEND ABOVE THE TERMINAL STRIP BARRIER.



APPROVALS		DATE	SCALE	TITLE
DRAWN	KAR	7-23-06	1/1	DIAGRAM, INTERCONNECTION
CHECKED	JS	5-9-06		
APPROVED	SL	9-9-06		
DRAWING NO. 354246 (REV. 01)			SHEET 2-2	

Digital Controller, Accessory Connections, Remote Annunciator Kit, 354246B-D

TP-5719 8/00d

© Kohler Co., 1996, 1999, 2000. All rights reserved.

KOHLER[®] POWER SYSTEMS

KOHLER CO. Kohler, Wisconsin 53044
Phone 920-565-3381, Web site www.kohlergenerators.com
Fax 920-459-1646 (U.S.A. Sales), Fax 920-459-1614 (International)
For the nearest sales and service outlet in U.S.A. and Canada
Phone 1-800-544-2444

Kohler[®] Power Systems
Asia Pacific Headquarters
7 Jurong Pier Road
Singapore 619159
Phone (65)264-6422, Fax (65)264-6455