

REVISIONS				
REV	DESCRIPTION	DRAWN	CHECKED	APPROVAL
11	021490-289 REVISED	J. ROBER	S. L. W.	

CONNECTOR LEGEND			
CONN. #	SUPPLIER P/N	CUMMINS P/N	DESCRIPTION
C3	HD14-9-96P	3824018	9 PIN MALE RECPT.
C4	HD16-9-96S	3824016	9 PIN FEMALE PLUG
C7	HD36-24-21SN-059	3824824	21 PIN FEMALE PLUG
C8	HD34-24-21PN	3824823	21 PIN MALE RECPT.
C9	HD34-24-23PN		23 PIN MALE RECPT.
C10	HD36-24-23SN-059		23 PIN FEMALE PLUG
C11	HD34-24-21PN-059		21 PIN MALE RECPT.
C12	HD36-24-21SN-059	3824824	21 PIN FEMALE PLUG
C13	DT06-4S	3824905	4 PIN FEMALE PLUG
C14,C17	DT04-4P	3824908	4 PIN MALE RECPT.
C15	12066317		6 POS. MULTIPAK
C16	DT06-3S	3824288	3 PIN FEMALE PLUG

\*SEE NOTE 11

ENGINE	OPTION	DESCRIPTION
K19	MS 4004	THROTTLE POTENTIOMETER ASSY.
K38/50	MS 6002	THROTTLE POTENTIOMETER ASSY.

ENGINE	OPTION	DESCRIPTION	CONNECTOR
K19/38/50	*EC 8747	POTENTIOMETER	C15
K19/38/50	EC 8748	4-20mA	C16

\* THESE THROTTLE ADAPTER OPTIONS ABOVE TO BE USED WHEN NOT USING THE THROTTLE OPTIONS (MS4004 & MS6002) SHOWN.

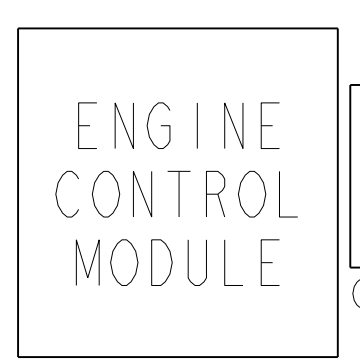
\* = OBSOLETE

ENG	OPT#	VOLT
K19	EP 8055	12V
K19	EP 8058	24V
KV38/50	EP 8059	12V
KV38/50	EP 8056	24V

ENG	OPT#	VOLT
ALL	EP 8057	12V
ALL	EP 8052	24V

ENGINE	OPTION	LENGTH
K19	EA4032	20FT
K19	EA4033	40FT
K19	EA4034	60FT
K19	EA4035	1 FT
K38/50	EA6008	20FT
K38/50	EA6009	40FT
K38/50	EA6010	60FT
K38/50	EA6011	1 FT

ENGINE	OPTION	DESCRIPTION
KV38/50	EC 8742	ISOLATED DUAL TERMINAL
KV38/50	EC 8744	MAGNALATCH



OPT#	VOLT
PH 4701	24V
PH 4723	12V

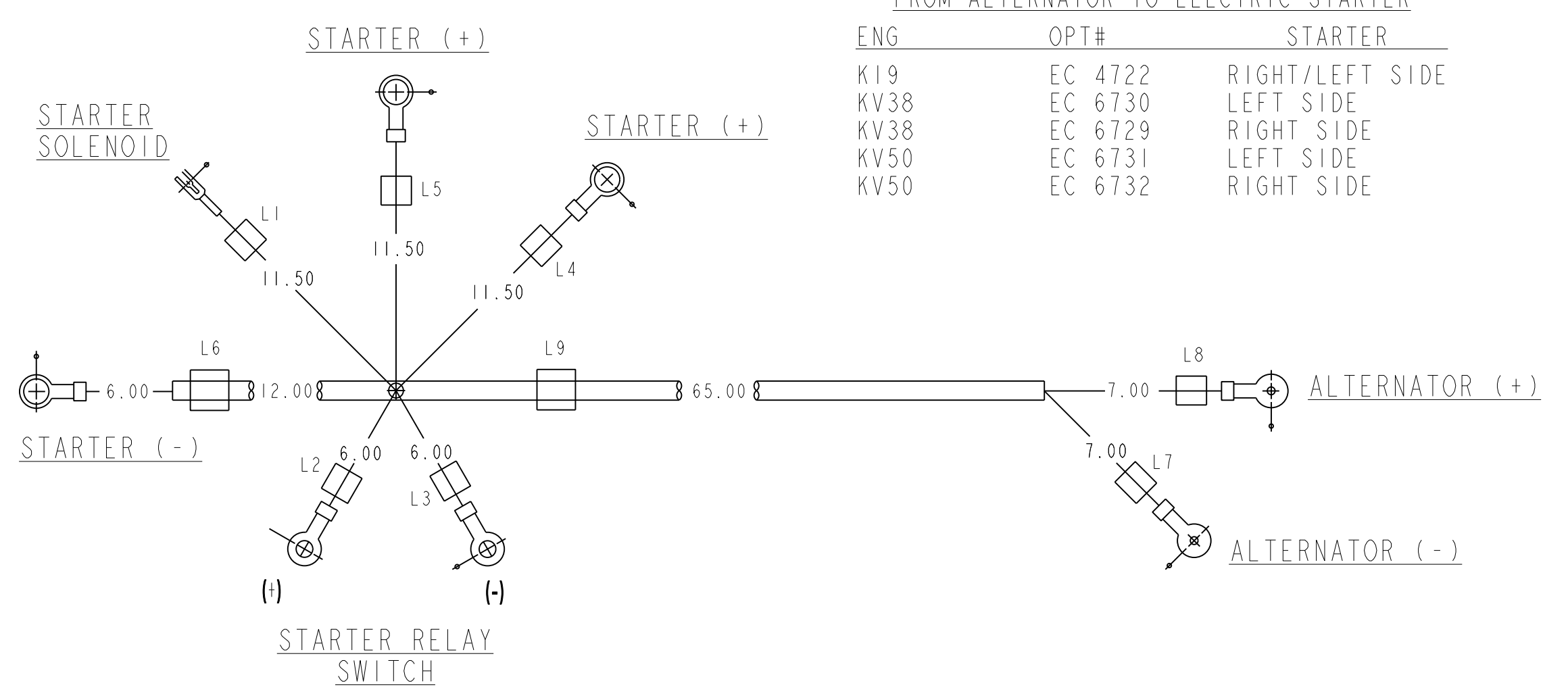
DETAIL SHOWN ON "CENTRY WIRING DIAGRAM BULLETIN 3666078"  
MAY ORDER WITH CREDIT CARD FROM: GANNETT PUBLICATIONS  
PHONE NO. (800) 646-5609 OR (812) 377-6540

**"DO NOT CONNECT BATTERY GROUND TERMINAL WIRE (FROM CENTRY HARNESS C2 CONNECTOR PINS 25 AND 26) TO ENGINE BLOCK TO MAINTAIN INSULATED GROUND SYSTEM."**

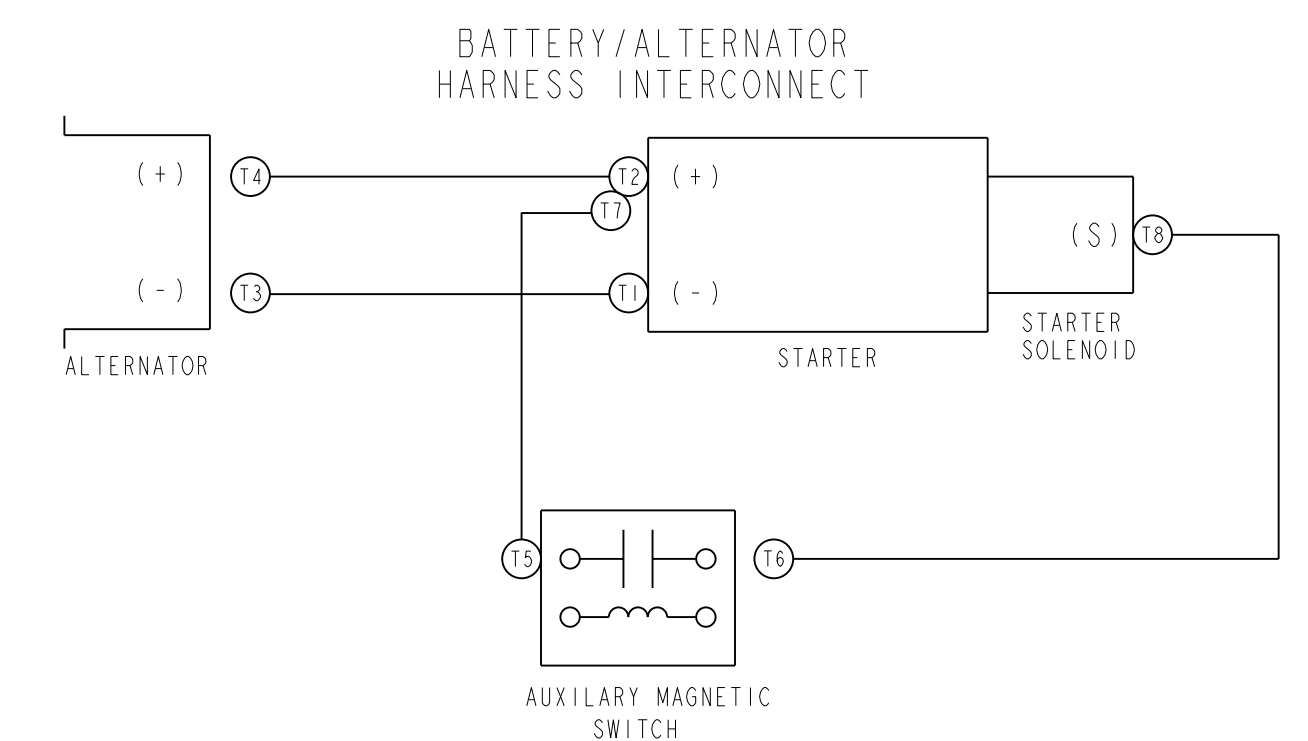
ENG	OPT#
K19	EC 8365
KV38	EC 8366
KV50	EC 8367

ENG	OPT#	LENGTH
ALL	EC 8370	15FT
ALL	EC 8371	30FT

ENG	OPT#	LENGTH
ALL	EC 8372	150FT
ALL	EC 8373	100FT
ALL	EC 8374	50FT



HARNESS LABEL LEGEND		
L1	STARTER SOLENOID	T8
L2	STARTER RELAY SW. (+)	T5
L3	STARTER RELAY SW. (-)	T6
L4	STARTER (+)	T7
L5	STARTER (+)	T2
L6	STARTER (-)	T1
L7	ALTERNATOR (+)	T4
L8	ALTERNATOR (-)	T3
L9	SEE NOTE 12	



ENG	OPT#	VOLT
K19	EP 4025	12V & 24V
KV38/50	EP 6027	12V & 24V

ELECTRICAL DIAGRAM FOR MARINE CENTRY K/KV-SERIES

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CUMMINS INC.	
ITEM NAME: DIAGRAM, WIRING	
IDENTIFIER: DIAGRAM DRAWING	
DRAWER: H. W. CARLOCK	DATE: 8-28-99
CHECKER: R. WINCENCIAK	DATE: 8-28-99
DESIGN APPROVAL: J. VERNER	DATE: 8-28-99
SCALE: NONE	ITEM CONTROL: CMU
SHEET: 1	OF 3

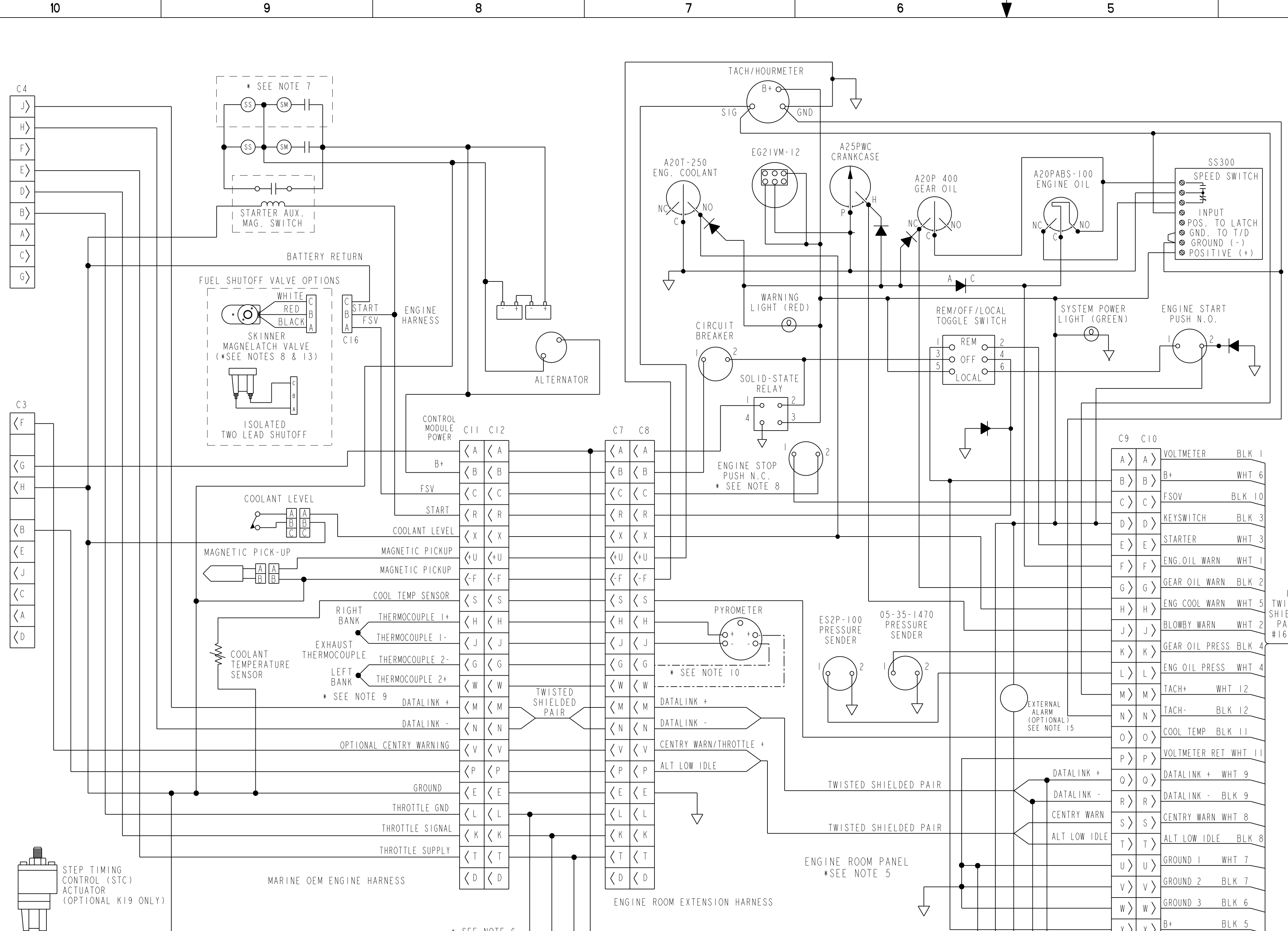
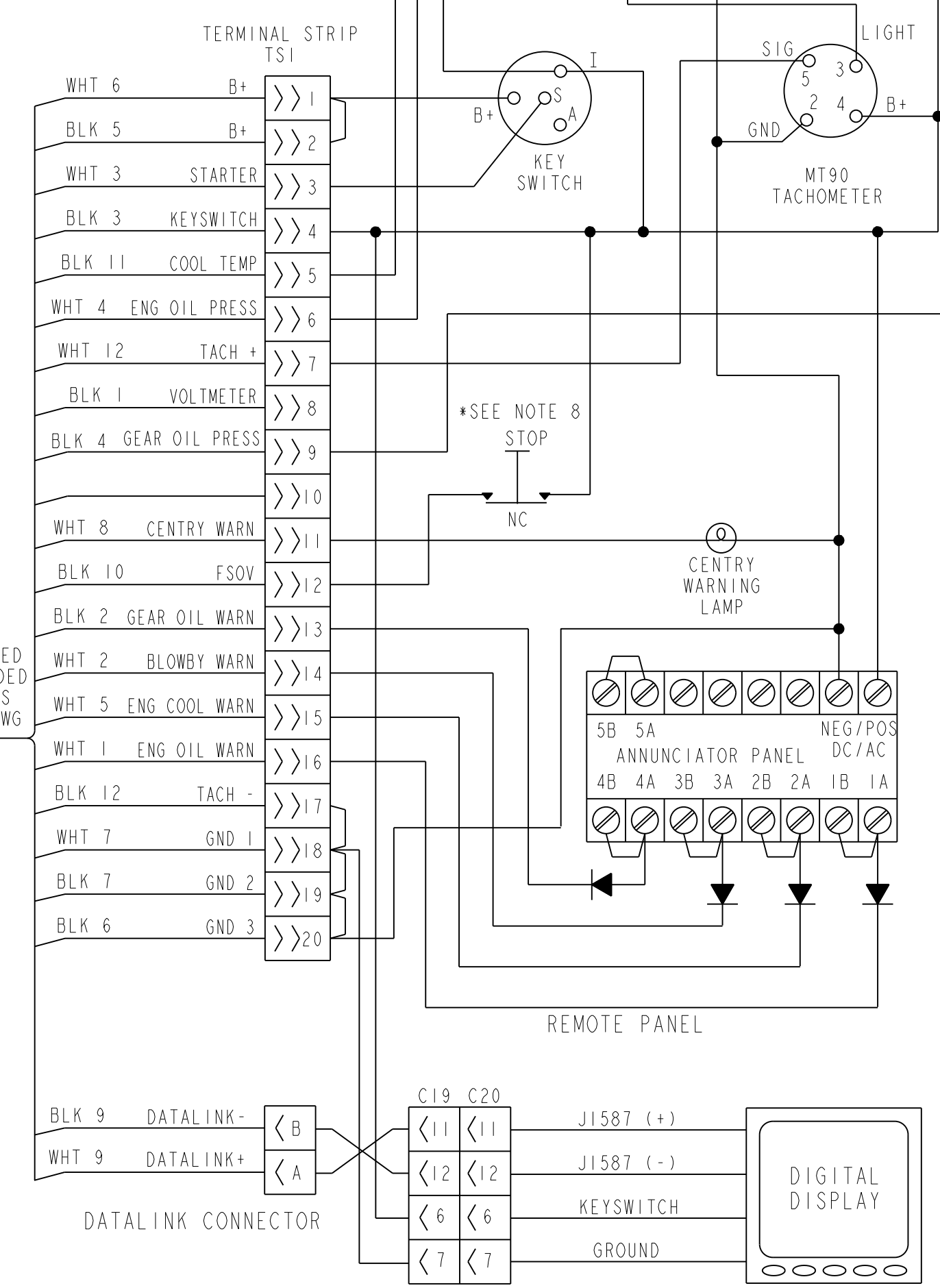
REVISIONS			
REV	DESCRIPTION	DRAWN	CHECKER
11	021490-289 REVISED	J. ROBER	R. L. N.

- NOTES:
- THE DATA LINK CONNECTOR WITH BUTT SPLICES IS INCLUDED WITH REMOTE EXTENSION HARNESS.
  - THE REMOTE EXTENSION HARNESS CAN BE CUT TO LENGTH ON THE END WITH FLYING LEADS.
  - IF CUSTOMER SUPPLIES REMOTE EXTENSION HARNESS, THERE MUST BE 2 PAIRS OF TWISTED SHIELDED PAIRS FOR DATA LINK AND TACHOMETER.
  - TYPE 8 REFERS TO CONTROL DEVICES THAT OUTPUT VARIABLE CURRENT (4-20mA). TYPE 1 REFERS TO CONTROL DEVICES THAT OUTPUT VARIABLE VOLTAGES (.8-2.6V)
  - IF THE REMOTE PANEL IS NOT USED, C10 MUST HAVE A JUMPER BETWEEN C AND D. ENGINE CAN BE STOPPED AT EITHER PANEL WHEN TOGGLE SWITCH IS IN LOCAL OR REMOTE POSITION BUT CAN ONLY BE STARTED BY THE PANEL IN CONTROL AS DETERMINED BY POSITION OF THE LOCAL 'OFF' REMOTE SWITCH ON THE ENGINE ROOM PANEL.
  - THROTTLE POTENTIOMETER OPTIONS MAY BE USED WHEN DISTANCE TO CONTROL MODULE IS 300 FEET OR LESS, ALL OTHERS ARE 4-20mA CONTROL OPTION. USE ONE OPTION ONLY, NOT BOTH.
  - SECOND STARTER MOTOR USED ON KV ONLY, SINGLE STARTER ON K ENGINES. ELECTRIC STARTER IS OPTIONAL.
  - REQUIRES CHANGE OF SHUTOFF SWITCH FOR SKINNER VALVES. REPLACE STOP BUTTON ON BOTH PANELS WITH NORMALLY OPEN SWITCHES. ALSO MAKE WIRING CHANGE IN ENGINE ROOM PANEL AS SHOWN ON THIS SHEET. MAGNALATCH OPTION ONLY AVAILABLE ON KV ENGINES.
  - THERMOCOUPLE #2 ONLY USED ON KV ENGINES (NOT ON K19).
  - WIRES G & W PRESENT ON KV APPLICATIONS ONLY.
  - DEUTSCH CONNECTORS CAN BE PURCHASED FROM: LADD INDUSTRIAL SALES PHONE NO. (800) 223-1236  
C15 CAN BE PURCHASED FROM: DELPHI/PACKHARD ELECTRIC SYSTEMS PHONE NO. (800) 722-5273  
SERVICE PARTS ARE AVAILABLE WHERE CUMMINS P/N'S ARE SHOWN.
  - HARNESS ID LABEL TO INCLUDE: CUMMINS P/N, DATE CODE, SUPPLIER NAME, COUNTRY OF ORIGIN
  - CONNECT F50 TO C16 AND WRAP ENGINE HARNESS F50 LEAD WITH TAPE.
  - YAZAKI CONNECTOR TO MATE WITH THROTTLE POTENTIOMETER. THIS PART CANNOT BE PROCURED SEPARATELY.
  - EXTERNAL ALARM WIRING NOT PROVIDED.

LEGEND

SSR	SOLID STATE RELAY
SM	STARTER MOTOR
SS	STARTER SOLENOID
▽	CIRCUIT COMMON

REMOTE EXTENSION HARNESS  
SEE NOTES 1, 2, 3, AND 5



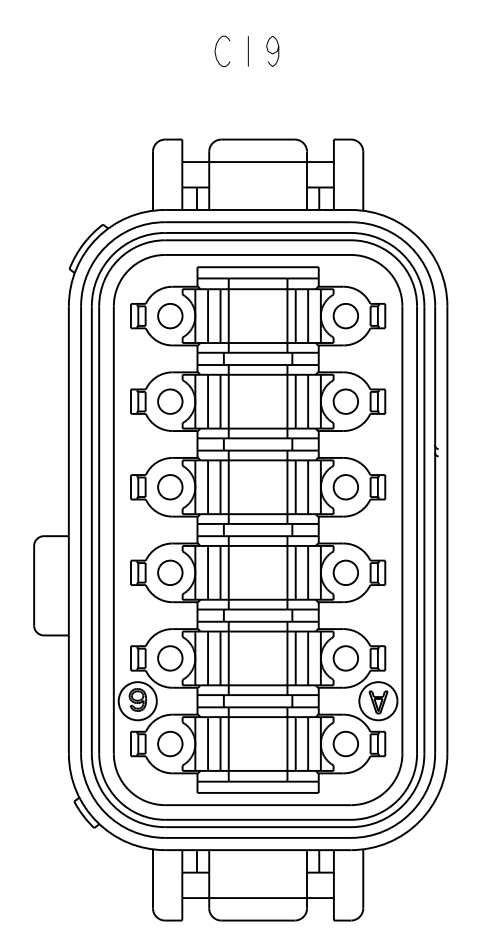
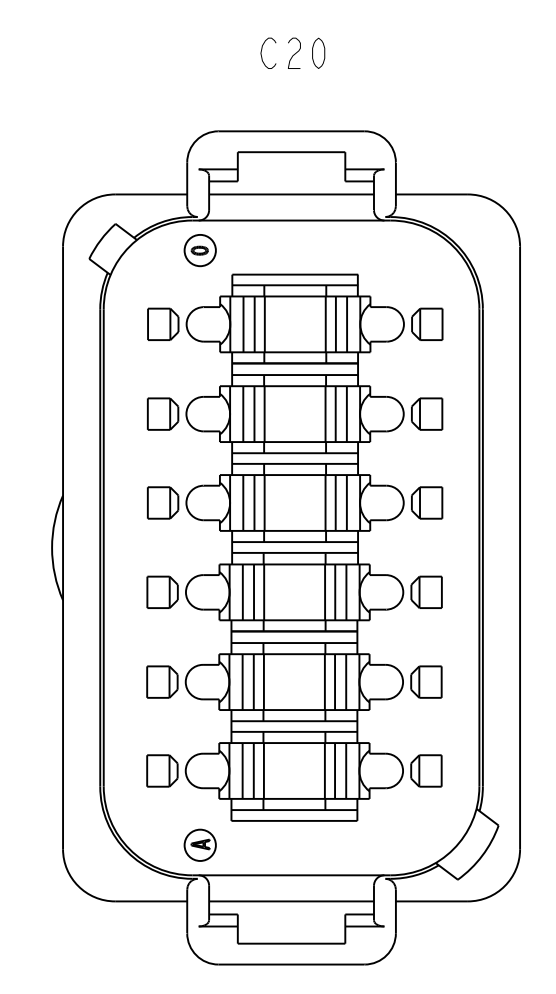
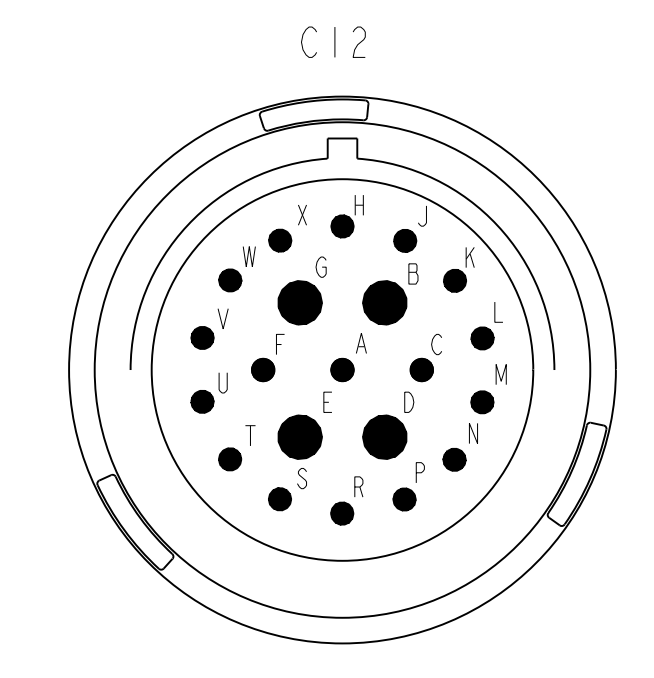
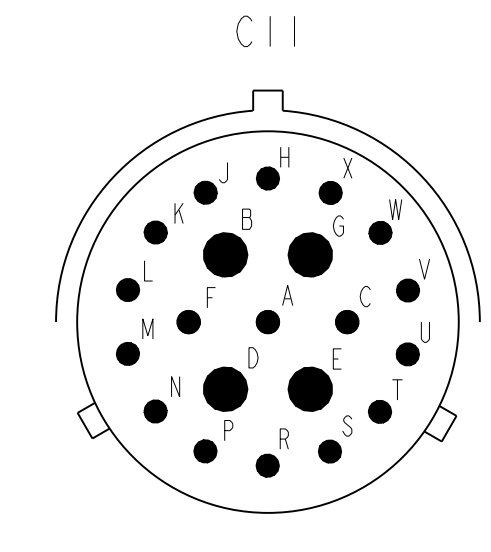
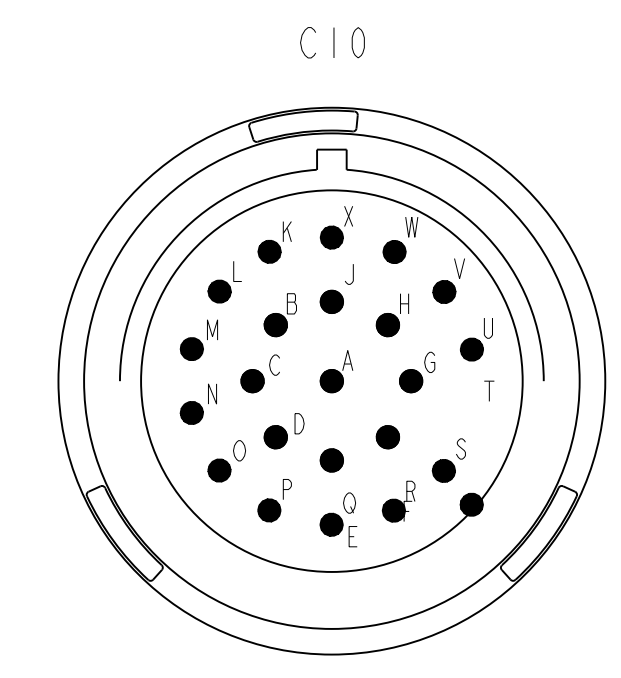
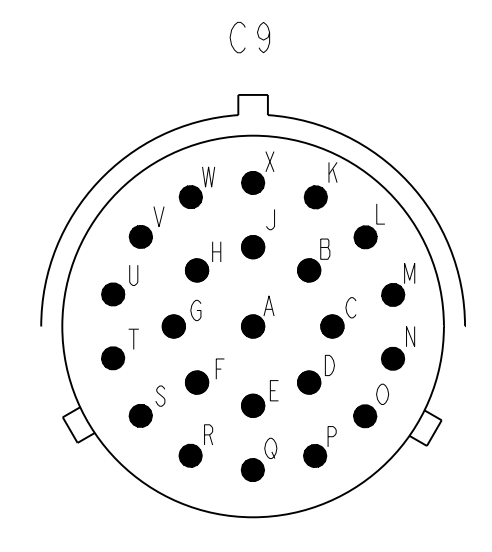
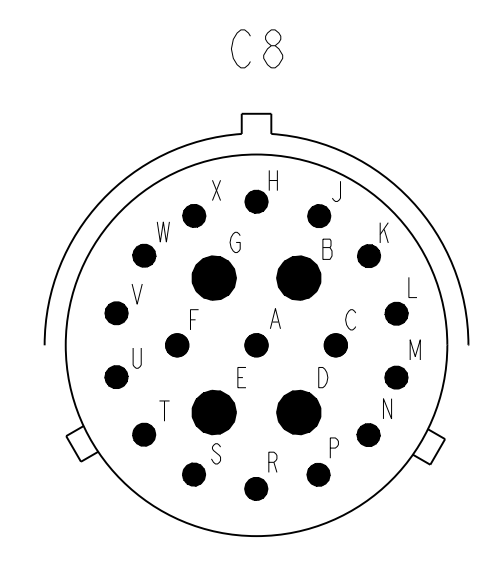
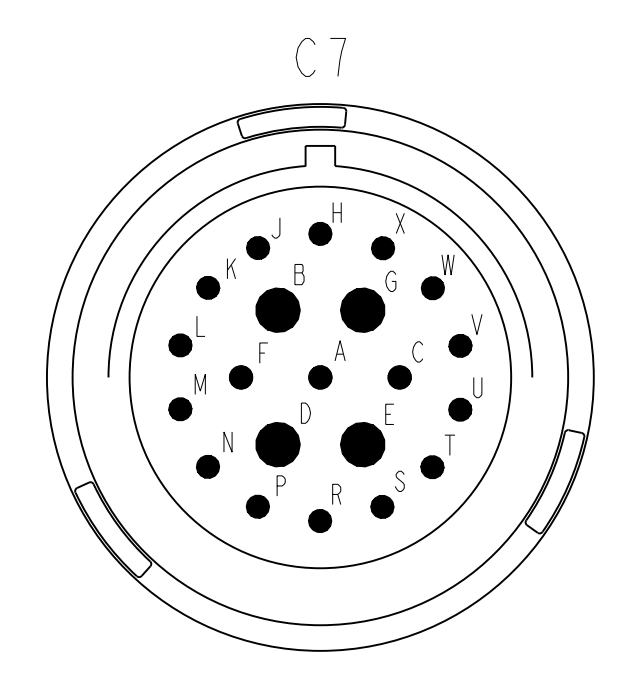
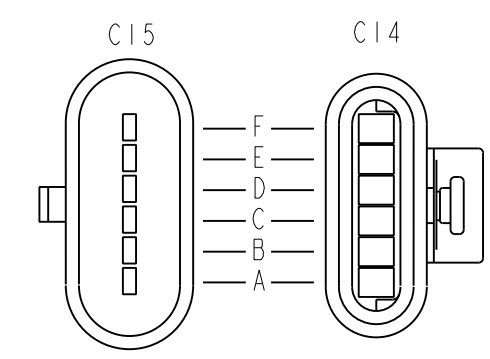
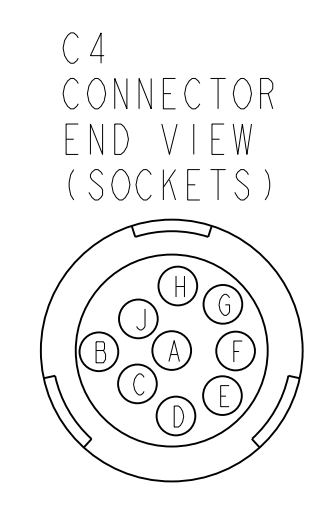
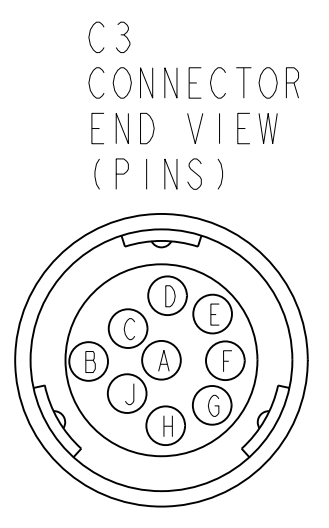
ELECTRICAL DIAGRAM FOR MARINE CENTRY K/KV-SERIES

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**Cummins Inc.**

DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994	ITEM NAME: DIAGRAM, WIRING
REF. ITEM NO.:	IDENTIFIER: DIAGRAM DRAWING
DRAWER: H W CARLOCK	DATE: 8-29-99
CHECKER: R WINCENCIAK	DATE: 8-29-99
DESIGN APPROVAL: J VERNER	DATE: 8-29-99
SCALE: NONE	ITEM CONTROL: CMU
	SHEET: 2 OF 3

REVISIONS				
REV	DESCRIPTION	DRAFTER	CHECKER	APPROVAL
11	021490-289 REVISED	J. ROBER	S. L. W.	



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DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994		ITEM NAME DIAGRAM, WIRING	
REF. ITEM NO.:		IDENTIFIER DIAGRAM DRAWING	
DRAFTER H. W. CARLOCK	8-28-99	SIZE CODE (IDENT. NO.)	ITEM NUMBER 3866032
CHECKER R. WINCENIAK	8-28-99	SCALE NONE	ITEM CONTROL CMU
DESIGN APPROVAL J. VERNER	8-28-99		SHEET 3 OF 3

Cummins Inc.