ECO NO.	DATE	REV.	REVISION RECORD	AUTH.	DR.BY
6282	11-9 2006	A	RELEASED TO SYSTEM.		GA
6289	12-8 2006	B	ADDED 1 AMP FUSE, FIRE SUPPRESSION SYSTEM AND TERMINAL STRIPS TO THE WIRING DIAGRAM. ADDED OPTOINAL REMOTE S/S CONNECTION		GA
6297	1-9 2006	C	P2-PIN 24 WAS CONNECTED TO K1-PIN 86.		GA
6309	2-1 2007	D	REROUTE K1-30 (16-RED) TO K1-86. REMOVE JUMPER WIRE (16-RED) BETWEEN X2-30 AND K3-30. REROUTE K3-86 (16-WHT/RED) TO K3-30. ADD JUMPER WIRE (16-RED) BETWEEN K3-30 AND K3-86. REROUTE K3-30 (12-RED) TO K2-30.		GA
6350	6-21 2007	E	ADDED Y-ADAPTER. CHANGED K4 RELAY CONNECTION. ADDED OPTIONAL POWER SOURCE.		GA
6443	1-17 2008	F	SHOW WESTERLINK TERMINAL BLOCK WIRING CONFIGURATION.		GA
6510	5-8 2008	G	REMOVE 18-BLK BETWEEN P1-PIN 3 TO P3-PIN 10		GA
6722	9-16 2010	H	UPDATED. ADDED NETWORK NOTES. INCLUDED OPTIONAL CONFIGS IN SINGLE DWG.		GMA
6801	7-15 2011	J	ADD NEW MODEL "EDEA"		GA

CONTROL BOX (AC)

TERMINAL BLOCK CONNECTIONS SHOWN ARE CONFIGURED FOR PARALLEL-WYE 190/208 VAC REFER TO 53328 FOR OTHER OPTIONS

53762 VOLTAGE SENSE RESISTOR BOARD

AC SENSE CONNECTOR

VOLT SENSE CABLE

CURRENT SENSE CABLE

TERMINAL BLOCK

AVR MODEL SR7

STATOR

EXCITER

K4

3A CIRCUIT BREAKER AC FIELD

NOTES:

1) EXTERNAL ALARM SYSTEM CONNECTION IS NOT A POWER SOURCE. CIRCUIT LOGIC IS CLOSED TO RUN / OPEN TO STOP GENSET.
2) FOR NMEA-2000: CONNECT 1AMP FUSE/BREAKER WIRE TO C2 (AS SHOWN - DC BREAKER DOES NOT CONTROL NETWORK POWER)
   FOR WESTERLINK: CONNECT 1AMP FUSE/BREAKER WIRE TO S2?(DC BREAKER CONTROLS NETWORK POWER)
3) ECU WILL NOT POWER UP UNLESS NETWORK POWER IS PRESENT ON ECU P2-13. POWER IS SUPPLIED VIA THE NETWORK CABLE TO THE ECU. POWERING DOWN THE NMEA-2000 NETWORK WHILE THE GENSET IS RUNNING WILL SHUT DOWN THE GENSET.
4) IF THE NMEA-2000 NETWORK IS POWERED FROM A SOURCE EXTERNAL TO THE GENSET, THE INTERNAL NETWORK POWER SUPPLY CONNECTOR IN THE PANEL BOX MUST BE DISCONNECTED FROM THE 4-WAY TEE.
5) FOR MULTIPLE GENSETS CONNECTED TO THE SAME NMEA-2000 NETWORK, IF ONE GENSET IS SUPPLING POWER TO THE NETWORK, THE OTHER GENSET MUST HAVE ITS INTERNAL NETWORK POWER SUPPLY DISCONNECTED FROM THE 4-WAY TEE.
6) WHENEVER NMEA-2000 NETWORK POWER IS CYCLED OFF AND BACK ON, THE GENSET MAY NEED TO BE STOPPED AND THE DC CIRCUIT BREAKER CYCLED TO RESTORE PROPER NETWORK COMMUNICATIONS.
7) SEE NETWORK HARDWARE INSTALLATION GUIDE 53076 FOR MORE INFORMATION ABOUT NETWORKING.
8) DIGITAL DISPLAY MUST BE RECONFIGURED WHEN CHANGING ANY OF THE FOLLOWING SETTINGS:
?A) CHANGING AC WIRING BETWEEN WYE AND DELTA CONFIGURATION
?B) CHANGING AC WIRING BETWEEN 2-WIRE 1-PHASE AND 3-WIRE 1-PHASE
?C) CHANGING BACKEND BETWEEN 1-PHASE AND 3-PHASE.

P2 ECU

P1

K1 - CRANK

K2 - PREHEAT

K3 - FUEL

STARTER

12 VDC

BATTERY SWITCH

BY OTHERS

SPEED SENSOR

EXHAUST TEMP. SWITCH

WATER TEMP. SENSOR

PREHEAT SOLENOID

GLOW PLUGS (1 PER CYL)

AIR TEMP. SENSOR

ACTUATOR

OIL PRESS. SENDER

FUEL PUMP

OPTIONAL BLOWER RELAY ADAPTER #52274

POWERED ONLY WHEN ENGINE IS RUNNING 400mA MAX ALLOWABLE CURRENT.

ALTERNATOR

REMOVE JUMPER FOR EXTERNAL ALARM CONNECTION SEE NOTE 1

NMEA BLU
NMEA WHT
NMEA BLK
NMEA SHIELD
NMEA RED
CABLE
D-NET 4-WAY TEE

CONNECTION TO EXTERNAL NETWORK

INTERNAL NETWORK POWER SUPPLY CONNECTOR SEE NOTE 4

CONTROL PANEL BOX

NETWORK POWER TERMINAL BLOCK

NMEA-2000 CONFIG SHOWN SEE NOTE 2 FOR OPTIONS

S1
4 SINK FOR RUN INDICATOR (0.5A MAX LAMP)
3 APPLY +12V TO START
2 APPLY +12V TO STOP
1 SWITCH POWER +12V

NETWORK POWER CIRCUIT BREAKER (MAY BE A FUSE INSIDE PANEL BOX ON SOME MODELS)

FUSE

EMERGENCY STOP SWITCH DC CIRCUIT BREAKER

(OPTIONAL) START/STOP SWITCH MOUNTED ON PANEL BOX

ELECTRONIC CONTROL/DISPLAY PANEL LOCATED ON PANEL BOX OR REMOTE LOCATION

(OPTIONAL) START/STOP SWITCH - REMOTE MOUNTED 3 POSITION MOMENTARY, CENTER N.O.

MODELS:
-25.5 EDE 60 Hz / 21.5 EDE 50Hz
-28.5 EDE 60 Hz / 23.5 EDE 50Hz
-33.0 EDE 60 Hz / 26.0 EDE 50Hz

-28.5 EDEA 60 Hz / 23.5 EDEA 50Hz
-33.0 EDEA 60 Hz / 26.0 EDEA 50Hz

TOLERANCES (UNLESS OTHERWISE NOTED)	WESTERBEKE CORPORATION TAUNTON, MA. 02780
INCHES .XX ± .02 .XXX ± .005 CAST ± .03 ANGLES ± 1° FINISH ∜ / MILLIMETERS X. ± 1.0 .X ± .5 .XX ± .13	TITLE DGGENSET WIRE D-NET (WESTERLINK & NMEA 2000)
DIMENSIONS INCHES ⟷ MILLIMETERS (WHEN APPLICABLE)	DRAWN BY GA · DATE 8/Nov/06 · MATERIAL: · APPROVED BY · DATE · SCALE NONE · SHT. 1 of 1 · SIZE E · DRAWING NUMBER 52951 · REV. J