

SYSTEM DESCRIPTION / SEQUENCE OF OPERATION

ANDERSON RYCROFT PROJECT # E02577

WO#15233/1-1

REV. 1

DATE: 01-07-13

1) SYSTEM DESCRIPTION

The system consists of three 400KW, 480V, 3 phase, 3 wire, generators and a four section generator control switchboard.

Cubicle #1 contains the synchronizing and common controls. PLC is provided for automatic synchronizing control and for starting additional units as required in the event of generator failure. Manual synchronizing is also provided to operate as a backup in the event that the automatic synchronizing controls fail. The bottom section contains the Loadbank breaker and the distribution transformer breaker.

Cubicle #2 to 4 contains the individual controls for the natural gas generator units. Each generator control, contains the metering, protective devices, load sharing and speed controller, automatic voltage regulator, electrically operated breaker and the MEC 20 engine controller.

2) SEQUENCE OF OPERATION

The control panel is designed to normally operate one or two of the units on line, as "prime" units, while the remaining unit will be in auto standby mode. Should any one of the prime units fail, the standby unit will automatically start and synchronize to the bus. If all units are switched to standby all three generator will start and the standby start light will be on. The design permits the operation of any one unit, any combination of two units or all three units.

For the system to operate automatically all MEC 20 engine controller switches must be in "Auto" and all breaker mode selectors must be in "Auto". Normally at least one unit will run in "prime" with the others selected for "standby".

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MEC 20 Engine Controller Switch

This switch has the following functions:

- | | |
|------------------|--|
| RUN | - The generator starts and runs off-line (unloaded) and is available if required by the system. |
| OFF | - The generator is off. This switch must be in OFF position to reset shutdowns on the MEC. |
| AUTO | - When selected, starting and stopping of the engine will be controlled by the prime/standby selector. If a cooldown time has been set, the engine will continue to run unloaded for a cooldown period when the unit is signaled to stop. Depressing the MEC 20 "OFF" switch will stop the engine immediately. |
| LOAD TEST | - This function is not used; it is equivalent to AUTO position. |

Operation Mode Selector (43CS)

- | | |
|-------------------|--|
| OFF | - The engine will not start automatically. Switching to off when the engine is running, goes into cooldown.
Note: The engine may still be manually started via the engine controller switch (i.e.. RUN). |
| STANDBY | - The unit will automatically start on any prime unit failure. |
| PRIME/SYNC | - When selected, the unit will start and operate continuously unloaded (52AM in Manual) or go on line alone/parallel with the other unit(s) (52AM in Auto). |

Note: Should the prime unit fail, the Operation Mode Selector must be changed to make the standby generator the prime unit before clearing the shutdown condition and clearing the standby start illuminated pushbutton.

Failure to do this will cause the standby generator's breaker to trip, de-energizing the load bus and initiating a dead bus standby start.

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Breaker Mode Selector (52AM)

- AUTO** - The breaker will be automatically controlled by the auto mode logic and will close when called for by the synchronizer.
- MANUAL** - The operator manually controls the breaker via the breaker close switch (52CS)
- The breaker may be closed onto a live bus via the sync permit contact when the generator is selected for manual synchronizing.

NOTE: As a precaution, the operator should only activate the breaker control switch, on a live bus, when the synchroscope is at the 12 o'clock position and the sync lights are dim or out.

Breaker Control Switch [52CS]

- Trip** - Manually trips the breaker when 52AM is in manual.
- Close** - Manually closes the breaker when 52AM is in manual.

Voltage Adjust Switch (90RL)

- RAISE** - Manually raises the voltage of the generator.
- LOWER** - Manually lowers the voltage of the generator.

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Manual Sync Selector Switch (25SS)

- | | | |
|--------|---|--|
| OFF | - | Manual synchronizing is inhibited. Auto synchronizing is possible. |
| GEN #1 | - | Connects the synchroscope, sync lights between Generator #1 and the bus. |
| GEN #2 | - | Refer to Gen #1 position. |
| GEN #3 | - | Refer to Gen #1 position. |

NOTE: The manual sync selector switch may be used to view the automatic synchronizing of a generator.

Manual Synchronizing

The generators may be manually synchronized together as per the following procedure:

- With the generator running,
 - Enable the manual synchronizing system, by turning the sync selector to the incoming unit's number (GEN 1, 2 or 3).
 - Match speed of the incoming unit to that of the on load unit(s) with the speed adjust rheostat.
 - Once the speed is matched and the voltage is within 5% of each other, the unit can be connected to the load by selecting "Close" on the breaker control switch when the synchroscope is at 12 o'clock position and the sync lights are dim or out.
 - NOTE: protection from improper synchronizing is provided via a sync check relay.
 - Once the incoming unit's breaker is closed, its speed should be finely adjusted for matching loads on each unit.
- At this stage, the units are paralleled and may be run in parallel indefinitely.
- Return the sync selector back to the "off" position.

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Changing Prime Units

Breaker Mode Switch - AUTO

The control system provides bumpless transfer when changing prime units. With one unit running in prime and the other unit in the standby mode; switch the standby unit to prime-sync. The unit will automatically start and sync onto the bus. When the two units are running in parallel, switch the prime unit to standby, its breaker will open taking it off line and it will continue to run unloaded for the cooldown period.

Prime Unit Fail /Dead Bus Standby Start

Breaker Mode Switch - AUTO

With one unit running in prime and the other units in the standby mode; if the prime unit fails, its breaker will open leaving the bus dead (de-energized). The standby start light illuminates and the standby units automatically start. The first unit to come up to voltage and frequency will close its breaker on to the dead bus. The next unit will automatically synchronize with the on-line unit and when synchronized its breaker will close to parallel to the load bus.

If 2 units are selected as prime and one of the prime units fails, the unit that is in standby will start and synchronize to the bus.

NOTE: If the failed prime unit is switched to standby and reset standby start, the running standby unit will open its breaker and stop [i.e. 2 units are no longer required, therefore one unit will stop].

To reset the standby start condition, first switch the standby unit(s) to prime, then press the standby start illuminated pushbutton.

NOTE: Failure to do so will result in all breakers opening then close again and the standby start light will be illuminated once again.

Load Shed Control

The load shed contact will actuate in the event of a bus overload condition. This is detected by an under frequency sensor (set @ 57Hz). The contact will reset after the bus frequency recovers, the light will remain illuminated until reset by an operator.



MEC20
MICROPROCESSOR ENGINE/GENERATOR CONTROLLER
SUMMARY CONFIGURATION DATA SHEET

WORK ORDER #: 15233-01-01-

REV.: 2

REV. DATE: 01/08/29

INITIATED BY: RLR

CUSTOMER: Enerflex Power Systems Compress

DEFAULT PROGRAM: P1

DATE: 01/05/17

PROJECT NAME: Anderson Rycroft Project

TPS VER: D

NOTES: Gen1. to Gen3.

ENGINE/GEN SYSTEM INPUTS

SYSTEM AC VOLTS: 480

PHASES: 3

FREQUENCY: 60

DC VOLTAGE: 24

DIGITAL DISPLAY FEATURES

<input checked="" type="checkbox"/> AC VOLTAGE	Enabled	<input checked="" type="checkbox"/> AC CURRENT	Enabled	<input checked="" type="checkbox"/> FREQUENCY	<input checked="" type="checkbox"/> TACHOMETER
<input checked="" type="checkbox"/> ENGINE TEMPERATURE	Enabled	<input checked="" type="checkbox"/> OIL PRESSURE	Enabled	<input checked="" type="checkbox"/> BATTERY VOLTAGE	<input checked="" type="checkbox"/> HOURMETER

STANDARD FAULT CIRCUITS (15)

OPTIONAL ANALOG FAULT CIRCUITS

FAULT NAME	INPUT TYPE	FAULT NAME	INPUT TYPE
Overcrank Shutdown	Internal	Undervoltage Shutdown	Analog (AC Voltage)
Loss of Speed Signal Shutdown	Internal	Oversupply Shutdown	Analog (AC Voltage)
Overspeed Shutdown	Internal	Under Frequency Alarm	Analog (AC Freq)
Switch Not in Auto Alarm	Internal	Over Frequency Alarm	Analog (AC Freq)
Low Battery Voltage Alarm	Analog (DC Volts)		
High Battery Voltage Alarm	Analog (DC Volts)		
Weak Battery Alarm	Analog (DC Volts)		
Low Engine Temp. Alarm	Analog (Temp. Sender)		
High Engine Temp. Alarm	Analog (Temp. Sender)		
Low Oil Pressure Alarm	Analog (Press. Sender)		
Emergency Stop	Internal/External		
Low Oil Pressure Shutdown	External Digital Input #1		
High Engine Temp Shutdown	External Digital Input #2		
Low Oil Level Shutdown	External Digital Input #3		
*HiltakeManTemp Shutdown	External Digital Input #4		

OPTIONAL DIGITAL FAULT CIRCUITS (up to 8)

FAULT NAME	INPUT TYPE
*Detonation Shutdown	External Digital Input #5
High Oil Temp Shutdown	External Digital Input #6
High Engine Vib Shutdown	External Digital Input #7
High Cooler Vib Shutdown	External Digital Input #8
*LowJktWtrLevel Shutdown	External Digital Input #9
Reverse Power Shutdown	External Digital Input #10
Breaker Tripped Shutdown	External Digital Input #11
*Expansion Alarm	External Digital Input #12

* indicates custom digital fault

STANDARD OUTPUT CONTACTS (4)

OUTPUT NAME	OUTPUT TYPE
Run	Form A
Crank	Form A
Common Fail	Form C
Not in auto	Programmable #1 - Form C

OPTIONAL PROGRAMMABLE CONTACTS (up to 3)

OUTPUT NAME	OUTPUT TYPE
Common fail	Programmable #2 - Form C
Lube	Programmable #3 - Form C
Running	Programmable #4 - Form C

OTHER OPTIONAL FEATURES

Cycle Lube



Main Menu Program

MEC20 Software ver. 1.5

WORK ORDER: 15233-01-01-

REVISION #: 2
 REVISION DATE: 01/08/29
 START DATE: 01/05/17
 START BY: RLR
 DEFAULT PROGRAM: P1
 TPS VERSION: D

CUSTOMER: Enerflex Power Systems Compression & Pow
 PROJECT: Anderson Rycroft Project
 PRODUCT: MEC20

Read only password:	1	<input type="checkbox"/>
ReadWrite password:	2	<input type="checkbox"/>
Master password:	3	<input type="checkbox"/>
Node Address:	4	<input type="checkbox"/> 255
System Voltage:	480	<input checked="" type="checkbox"/> Line to line voltage 120-15000
System Frequency:	60	<input type="checkbox"/> Toggle between 50/60 Hz
System Phases:	3	<input type="checkbox"/> Toggle between 1 & 3 phase
Voltage Sensing:	4	<input checked="" type="checkbox"/> Voltage sensing PT ratio 1-208
CurrentSensing:	160	<input checked="" type="checkbox"/> Current sensing CT ratio 1-999
Temperature Scale:	F	<input type="checkbox"/> Toggle between Deg C/Deg F
Pressure Scale:	PSI	<input type="checkbox"/> Toggle between PSI/KPA
Start Delay:	20	<input type="checkbox"/> 0-999 seconds
Crank Time:	15	<input type="checkbox"/> 0-99 seconds
Rest Time:	15	<input type="checkbox"/> 0-99 seconds
Starter Re-Engage:	3	<input type="checkbox"/> 1-99 seconds 0=disabled
Number of Cranks:	3	<input type="checkbox"/> 1-99 times 0=continuous
Bypass Delay:	10	<input type="checkbox"/> 0-99 seconds
Cooldown Delay:	5	<input type="checkbox"/> 0-99 minutes
Nominal RPM:	1800	<input type="checkbox"/> 0-4000 RPM
Flywheel Teeth:	150	<input type="checkbox"/> 0-999 teeth
Crank Disconnect:	30%	<input type="checkbox"/> 0-100%
Overspeed:	100%	<input type="checkbox"/> 100-150%
Overspeed Transient:	1.0	<input type="checkbox"/> 0.0-9.9 seconds
Run Output Failsafe:	Yes	<input type="checkbox"/> Toggle between Yes/No
Option Yes / Option No:	Yes	<input type="checkbox"/> Toggle between Yes/No
Loss of Speed:	Shutdown	<input type="checkbox"/> Toggle between Alarm/Shutdown
Start Input Polarity:	Close	<input type="checkbox"/> Toggle between Open/Close
Common Fail for not in Auto:	Yes	<input type="checkbox"/> Toggle between Yes/No
Programmable Output1:	Not in auto	<input checked="" type="checkbox"/> Choose from list
Programmable Output2:	Common fail	<input checked="" type="checkbox"/> Choose from list
Prog Output 2 Option:	Yes	<input checked="" type="checkbox"/> Toggle between Yes/No
Programmable Output3:	Lube	<input checked="" type="checkbox"/> Choose from list
Prog Output 3 Option:	Yes	<input checked="" type="checkbox"/> Toggle between Yes/No
Programmable Output4:	Running	<input checked="" type="checkbox"/> Choose from list
Prog Output 4 Option:	Yes	<input checked="" type="checkbox"/> Toggle between Yes/No
Programmable Output5:	Disabled	<input type="checkbox"/> Choose from list
Prog Output 5 Option:	No	<input type="checkbox"/> Toggle between Yes/No
Programmable Output6:	Disabled	<input type="checkbox"/> Choose from list
Prog Output 6 Option:	No	<input type="checkbox"/> Toggle between Yes/No
Auto Callout:	Common fail	<input type="checkbox"/> Toggle Common Alarm/Fail/Shutdown
Post Lube Duration:	5	<input checked="" type="checkbox"/> 0-999 minutes
Cycle Lube Interval:	60	<input checked="" type="checkbox"/> 1-9999 minutes
Cycle Lube Duration:	1	<input checked="" type="checkbox"/> 0-999 minutes
Cycle Lube Option:	Yes	<input checked="" type="checkbox"/> Toggle between Yes/No
Idle Control:	No	<input type="checkbox"/> Toggle between Yes/No
Idle Control Option:	No	<input type="checkbox"/> Toggle between Yes/No



Main Menu Program

MEC20 Software ver. 1.5

WORK ORDER: 15233-01-01-

REVISION #: 2

REVISION DATE: 01/08/29

START DATE: 01/05/17

START BY: RLR

DEFAULT PROGRAM: P1

TPS VERSION: D

CUSTOMER: Enerflex Power Systems Compression & Pow
PROJECT: Anderson Rycroft Project
PRODUCT: MEC20

Remote Communication:	No	<input type="checkbox"/> Toggle between Yes/No
Horn Duration:	60	<input type="checkbox"/> 0=continuous
Display Menu:	999	<input type="checkbox"/> 0-999 seconds
Back Lite Timeout:	999	<input type="checkbox"/> 0-999 seconds
Voltage Metering:	Enabled	<input checked="" type="checkbox"/> Toggle between Enabled/Disabled
Current Metering:	Enabled	<input checked="" type="checkbox"/> Toggle between Enabled/Disabled
Engine Temp Metering:	Enabled	<input checked="" type="checkbox"/> Toggle between Enabled/Disabled
Oil Pressure Metering:	Enabled	<input checked="" type="checkbox"/> Toggle between Enabled/Disabled
Reset Run Hours:	No	<input type="checkbox"/> Toggle between Yes/No

MEC 20 PROGRAMMING SHEETS

DIGITAL FAULTS

CUSTOMER: Enerflex Power Systems Compression & Power
 PROJECT: Anderson Rycroft Project
 PRODUCT: MEC20

WORK ORDER: 15233-01-01-

REVISION #: 2

REVISION DATE: 01/08/29

TPS VERSION: D
 START DATE: 01/05/17
 START BY: RLR
 DEFAULT PROGRAM: P1

FAULT NAME	INPUT NUMBER	FAULT	ACTION	ALARM LATCH	SHUTDOWN REMOTE RESET	POLARITY	BYPASS ON START	TRANSIENT DELAY
		ENABLE/DISABLE	SHUTDOWN/ALARM	YES/NO	YES/NO	OPEN/CLOSE	YES/NO	(SEC)
Low Oil Pressure	1	Enable	Shutdown	<input type="checkbox"/>	No	Open	Yes	<input type="checkbox"/> 0.5
High Engine Temp	2	Enable	Shutdown	<input type="checkbox"/>	No	Open	Yes	<input type="checkbox"/> 1
Low Oil Level	3	Enable	Shutdown	<input type="checkbox"/>	No	Open	No	<input type="checkbox"/> 1
* HiltakeManTemp	4	Enable	Shutdown	<input type="checkbox"/>	No	Open	No	<input type="checkbox"/> 1
* Detonation	5	Enable	Shutdown	<input checked="" type="checkbox"/>	No	Open	Yes	<input type="checkbox"/> 1
High Oil Temp	6	Enable	Shutdown	<input checked="" type="checkbox"/>	No	Open	No	<input type="checkbox"/> 1
High Engine Vib	7	Enable	Shutdown	<input checked="" type="checkbox"/>	No	Open	No	<input type="checkbox"/> 1
High Cooler Vib	8	Enable	Shutdown	<input checked="" type="checkbox"/>	No	Open	No	<input type="checkbox"/> 1
* LowJktWtrLevel	9	Enable	Shutdown	<input checked="" type="checkbox"/>	No	Open	No	<input type="checkbox"/> 1
Reverse Power	10	Enable	Shutdown	<input checked="" type="checkbox"/>	No	Open	No	<input type="checkbox"/> 0.1
Breaker Tripped	11	Enable	Shutdown	<input checked="" type="checkbox"/>	No	Close	No	<input type="checkbox"/> 0.1
* Expansion	12	Enable	Alarm	<input checked="" type="checkbox"/>	No	Close	No	<input type="checkbox"/> 0.5

* Indicates custom digital fault

MEC20 PROGRAMMING SHEETS

ANALOG FAULTS

CUSTOMER: Enerflex Power Systems Compression & Power
 PROJECT: Anderson Rycroft Project
 PRODUCT: MEC20

WORK ORDER: 15233-01-01-

REVISION #: 2

REVISION DATE: 01/08/29

TPS VERSION: D
 START DATE: 01/05/17
 START BY: RL
 DEFAULT PROGRAM: P1

FAULT NAME	INPUT ANALOG TYPE	FAULT	SETPOINT LEVEL (PICK-UP)	SETPOINT LEVEL (DROP-OUT)	UNITS	ACTION	ALARM LATCH	SHUTDOWN REMOTE RESET	BYPASS ON START	TRANSIENT DELAY (SEC)
Undervoltage	AC Voltage	Enable <input checked="" type="checkbox"/>	432 <input type="checkbox"/>	384 <input type="checkbox"/>	V	Shutdown <input type="checkbox"/>		No <input type="checkbox"/>	Yes <input type="checkbox"/>	5 <input type="checkbox"/>
Oversupply	AC Voltage	Enable <input checked="" type="checkbox"/>	528 <input type="checkbox"/>	518 <input type="checkbox"/>	V	Shutdown <input type="checkbox"/>		No <input type="checkbox"/>	No <input type="checkbox"/>	2 <input type="checkbox"/>
Under Frequency	AC Freq	Enable <input type="checkbox"/>	57.0 <input type="checkbox"/>		Hz	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>		Yes <input type="checkbox"/>	5 <input type="checkbox"/>
Over Frequency	AC Freq	Enable <input type="checkbox"/>	63.0 <input type="checkbox"/>		Hz	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>		No <input type="checkbox"/>	2 <input type="checkbox"/>
Weak Battery	DC Voltage	Enable <input type="checkbox"/>	18.0 <input type="checkbox"/>		V	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>		No <input type="checkbox"/>	3 <input type="checkbox"/>
Low Battery Volt	DC Voltage	Enable <input type="checkbox"/>	25.6 <input type="checkbox"/>		V	Alarm <input type="checkbox"/>	No <input type="checkbox"/>		No <input type="checkbox"/>	120 <input type="checkbox"/>
High Battery Volt	DC Voltage	Enable <input type="checkbox"/>	30.4 <input type="checkbox"/>		V	Alarm <input type="checkbox"/>	No <input type="checkbox"/>		No <input type="checkbox"/>	10 <input type="checkbox"/>
Low Engine Temp	Temp Sender	Enable <input type="checkbox"/>	70 <input type="checkbox"/>		DEG F	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>		No <input type="checkbox"/>	5 <input type="checkbox"/>
High Eng Temp #1	Temp Sender	Enable <input type="checkbox"/>	190 <input type="checkbox"/>		DEG F	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>		Yes <input type="checkbox"/>	2 <input type="checkbox"/>
Low Oil Press #1	Press Sender	Enable <input type="checkbox"/>	483 <input type="checkbox"/>		KPA	Alarm <input type="checkbox"/>	Yes <input type="checkbox"/>		Yes <input type="checkbox"/>	2 <input type="checkbox"/>



Calibration

MEC20

Software ver. 1.5

CUSTOMER: Enerflex Power Systems Compression & Power
PROJECT: Anderson Rycroft Project
PRODUCT: MEC20

WORK ORDER: 15233-01-01-
CONTROLLER S/N: 1238099-54389
REVISION #: 2
REVISION DATE: 01/08/29
START DATE: 01/05/17
START BY: RLR
DEFAULT PROGRAM: P1
TPS VERSION: D

Calibration:

Calibrated By	RD
Calibrated Date	01/07/12
Volts A-B Zero	127
Volts A-B Span	186
Volts B-C Zero	127
Volts B-C Span	186
Volts C-A Zero	127
Volts C-A Span	186
Current A Zero	121
Current A Span	116
Current B Zero	121
Current B Span	123
Current C Zero	121
Current C Span	150
Battery Voltage Span	176
Engine Temp Max	126
Engine Temp Min	233
Oil Pressure Max	138
Oil Pressure Min	150



Calibration

MEC20

Software ver. 1.5

CUSTOMER: Enerflex Power Systems Compression & Power
PROJECT: Anderson Rycroft Project
PRODUCT: MEC20

WORK ORDER: 15233-01-01-
CONTROLLER S/N: 1213599-51754
REVISION #: 2
REVISION DATE: 01/08/29
START DATE: 01/05/17
START BY: RLR
DEFAULT PROGRAM: P1
TPS VERSION: D

Calibration:

Calibrated By	RD	
Calibrated Date	07/07/12	
Volts A-B Zero	127	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts A-B Span	186	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts B-C Zero	127	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts B-C Span	186	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts C-A Zero	127	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts C-A Span	191	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current A Zero	127	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current A Span	111	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current B Zero	127	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current B Span	121	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current C Zero	121	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current C Span	149	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Battery Voltage Span	181	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Engine Temp Max	122	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Engine Temp Min	220	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Oil Pressure Max	138	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Oil Pressure Min	145	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number



Calibration

MEC20

Software ver. 1.5

CUSTOMER: Enerflex Power Systems Compression & Power
PROJECT: Anderson Rycroft Project
PRODUCT: MEC20

WORK ORDER: 15233-01-01-
CONTROLLER SN: 1238099-54394
REVISION #: 2
REVISION DATE: 01/08/29
START DATE: 01/05/17
START BY: RLR
DEFAULT PROGRAM: P1
TPS VERSION: D

Calibration:

Calibrated By	RD	
Calibrated Date	01/07/12	
Volts A-B Zero	127	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts A-B Span	173	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts B-C Zero	127	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts B-C Span	174	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts C-A Zero	127	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Volts C-A Span	183	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current A Zero	112	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current A Span	139	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current B Zero	112	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current B Span	118	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current C Zero	127	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Current C Span	175	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Battery Voltage Span	175	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Engine Temp Max	126	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Engine Temp Min	220	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Oil Pressure Max	137	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number
Oil Pressure Min	152	<input checked="" type="checkbox"/> 0 - 255 Calibration correction number