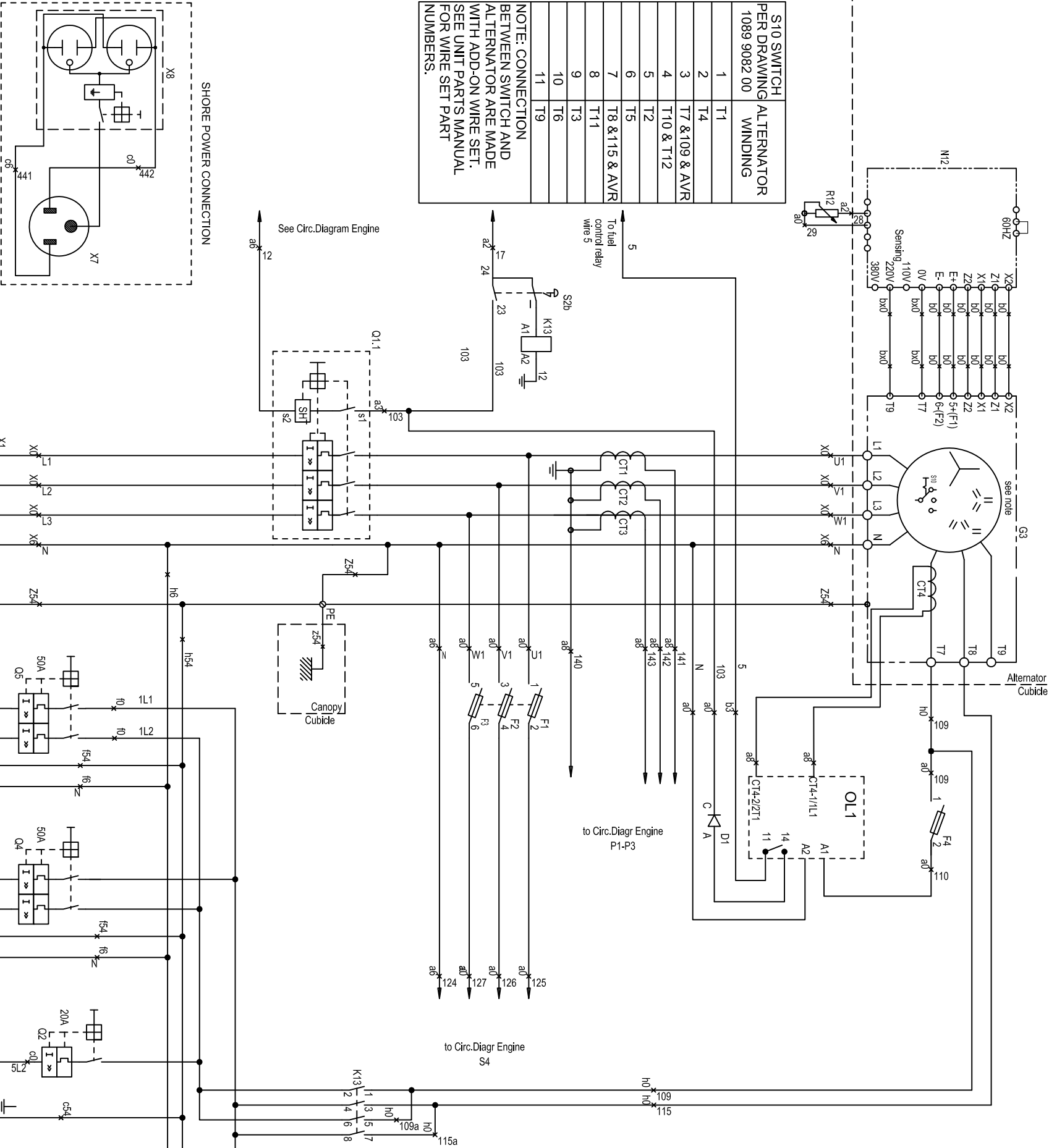


S10 SWITCH PER DRAWING 1089 9082 00	ALTERNATOR WINDING
1	T1
2	T4
3	T7 & 109 & AVR
4	T10 & T12
5	T2
6	T5
7	T8 & 115 & AVR
8	T11
9	T3
10	T6
11	T9

NOTE: CONNECTION
BETWEEN SWITCH AND
ALTERNATOR ARE MADE
WITH ADD-ON WIRE SET.
SEE UNIT PARTS MANUAL
FOR WIRE SET PART
NUMBERS.



Mark Name

F1..4	Fuse 4A
G3	Alternator
K13	Contactor
N12	Automatic Voltage Regulator
O	Optional Equipment
OL1	Over Load Relay
Q1..1	Circuit breaker 3pole
Q2	Circuit breaker 1pole
Q3	Circuit breaker 1pole
Q4	Circuit breaker 2pole
Q5	Circuit breaker 2pole
R5	Coolant Heater/Battery Charger
R12	Voltage Adjustment Potmeter
S2b	Emergency stop (S2a see Engine Circ.)
S10	Supply voltage switch
CT1..6	Current transformer
X1	Terminal board
X2	Socket outlet - 120V GFCI
X3	Socket outlet - 120V GFCI
X4	Socket outlet - 240V 50A TWISTLOCK
X5	Socket outlet - 240V 50A TWISTLOCK
X7	Flanged Inlet - Male 120V - SHORE POWER
X8	Socket outlet - 120V GFCI - SHORE POWER
X10	Terminal strip
X25	Terminal strip
Sx	Remote Start/Stop
D1	Diode

Legend

Wire size :	Colour code :
aa = 20 ga	0 = black
a = 18 ga	1 = brown
b = 16 ga	2 = red
c = 14 ga	3 = orange
d = 12 ga	4 = yellow
e = 10 ga	5 = green
f = 8 ga	6 = blue
g = 6 ga	7 = purple
h = 4 ga	8 = grey
i = 2 ga	9 = white
j = 1 ga	54 = green/yellow
k = 2/0 ga	
l = 3/0 ga	
m = 4/0 ga	

NOTE: All wire is 600V /105 deg. C rated TEW unless marked with "x" or "y" which identifies EPDM.

BOX	Q1.1	CT1-3	P1-3	CT4-6	OL1	Wire size
QAS 25	1	80A	150/5A	0-150A	60/5A	$\frac{X}{f_x} \frac{Z}{f}$
QAS 45	1	125A	150/5A	0-150A	60/5A	$\frac{X}{h_x} \frac{Z}{h}$
QAS 70	2	200A	400/5A	0-400A	200/5A	$\frac{X}{l_x} \frac{Z}{j}$
QAS 90	2	400A	400/5A	0-400A	200/5A	$\frac{X}{(2)j_x} \frac{Z}{j}$
QAS 120	2	400A	400/5A	0-400A	200/5A	$\frac{X}{(2)j_x} \frac{Z}{j}$
QAS 150	2	400A	400/5A	0-400A	200/5A	$\frac{X}{(2)j_x} \frac{Z}{j}$
QAS 180	2	500A	1000/5A	0-1000A	400/5A	$\frac{X}{(2)j_x} \frac{Z}{k}$
QAS 250	3	600A	1000/5A	0-1000A	400/5A	$\frac{X}{(2)k_x} \frac{Z}{k}$
QAS 330	3	1000A	1000/5A	0-1000A	400/5A	$\frac{X}{(2)my} \frac{Z}{k}$

03	UPDATED WIRE CONNECTION AND BREAKER TABLES	HOP 130328 00	03/15/2013	BL
04	UPDATED TO SINGLE PHASE Q1.1	HOP 131465 00	11/26/2013	IV
ED	DESCRIPTION	DN	DATE	BY

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WIRING DIAGRAM				
QAS				
Scale NONE				
Drawn by BL				
Material Blank				
Sut. ord. None				
Prod. ord. RELEASED 03/14/12				
Approved 03/14/12				
Data 03/14/12				
Comparison 1310 3171 34				
ACIO R14				
1102 K 2				
3rd angle proj.				
Owner HCL				
Sheet 1/1				
1310 3200 29 04				