OTIS GENII (24vdc verified in field) In Car Stop Switch FS90

 Verify all connections and voltages in field
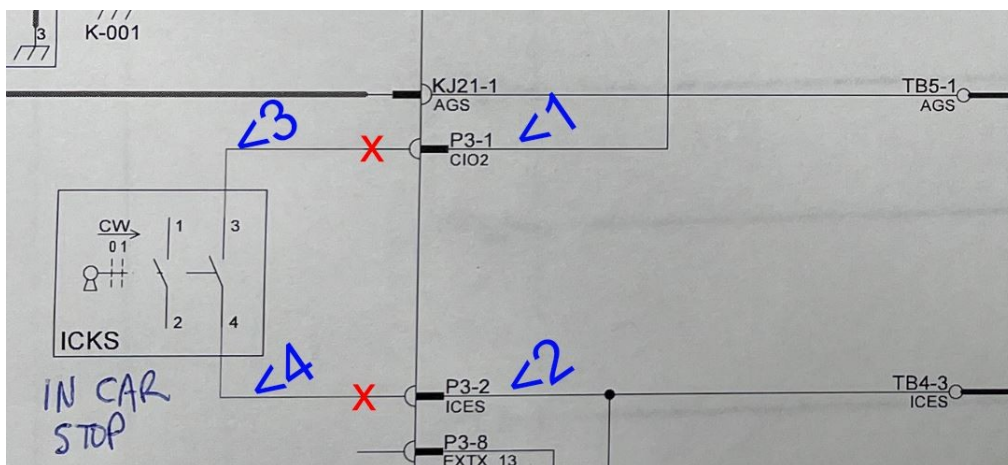
Use V8 fs90 24vdc Board. Use V10 fs90 for Fireman's Stop Switch Add On

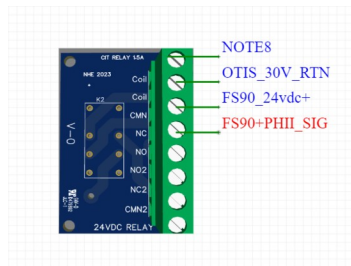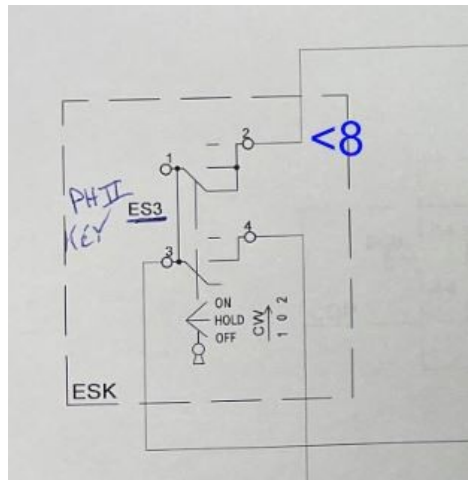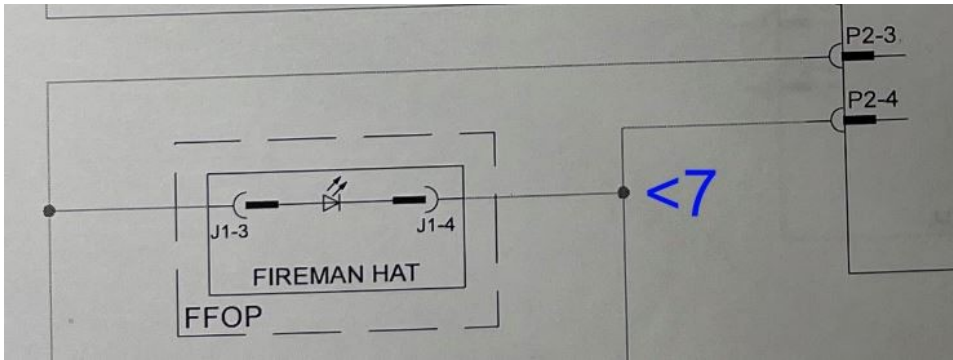Red X indicates cut in existing circuit.

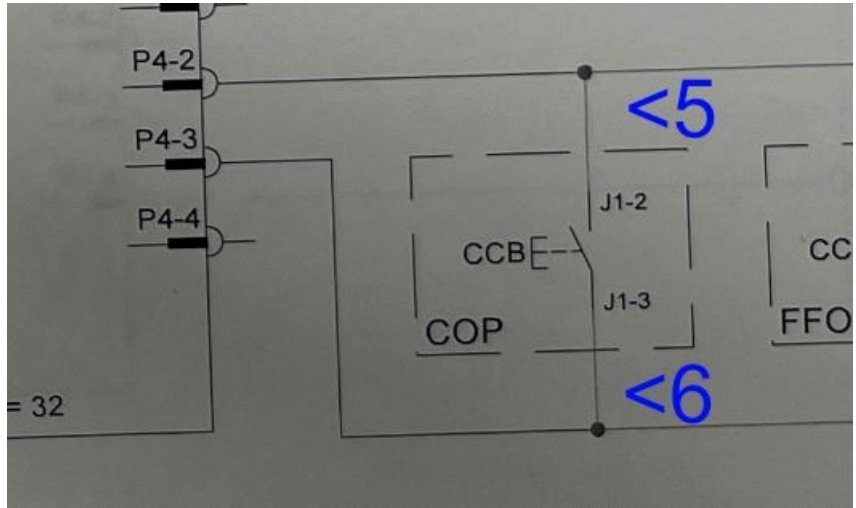Blue numbers on marked up drawings relate to the corresponding step numbers below

Step	Wire#	Instruction
1		Connect to one of the STP terminals on the FS90 Board
2		Connect to remaining STP terminal on the FS90 Board
3		Connect to one of the KEY STOP terminals on the FS90 Board
4		Connect to remaining KEY STOP terminal on the FS90 Board
5		Connect to one CC terminal on FS90 Board
6		Connect to remaining CC terminal on FS90 Board
7		Connect to KEY/HAT terminal on FS90 board (Jumper on KEY side)
8		See PHII Relay Add On below
9		Connect to DZSIG on FS90 Board
10		Connect 24dc- on FS90 Board to OTIS 30V RTN
11		Connect 24DC+ on FS90 Board to OTIS +30V
12		
13		
14		
15		

NOTE:
* Test PHII doors while holding the CC button before beginning. If doors do not operate properly you may have to break up the Car Call button feed instead of using the CC terminals to parallel the Call Cancel Button. In this case, you'd use the CC terminals to pull a relay and break a n/c contact that would normally feed the Car Calls. See Generic section below for examples.

P4-2

P4-3

<5

P4-4

J1-2

CCB

CC

J1-3

COP

FFO

= 32

<6

P2-3

P2-4

J1-3   J1-4   **<7**

FIREMAN HAT

FFOP

<8

PH II
KEY   ES3

ON
HOLD   CW
OFF   1 0 2

ESK

OT RELAY 1.5A

NHE 2023

Coil	NOTE8
Coil	OTIS_30V_RTN
CMN	FS90_24vdc+
NC	FS90+PHII_SIG
NO	
NO2	
NC2	
CMN2	

K2

24VDC RELAY

GENERIC WIRING EXAMPLES
FS90 Simple V8
Use correct connections for each individual system.
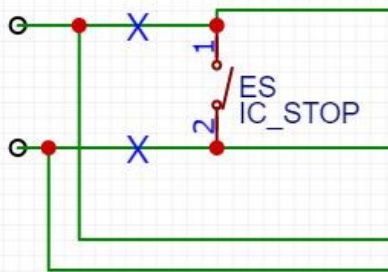
STP = terminals = N/O Relay contact
CC terminals = N/O Relay contact

All other connections are 24VDC referenced to 24vdc- terminal on FS90 Board
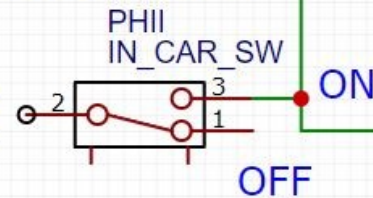

Final In Car Stop Wiring

PHII Final

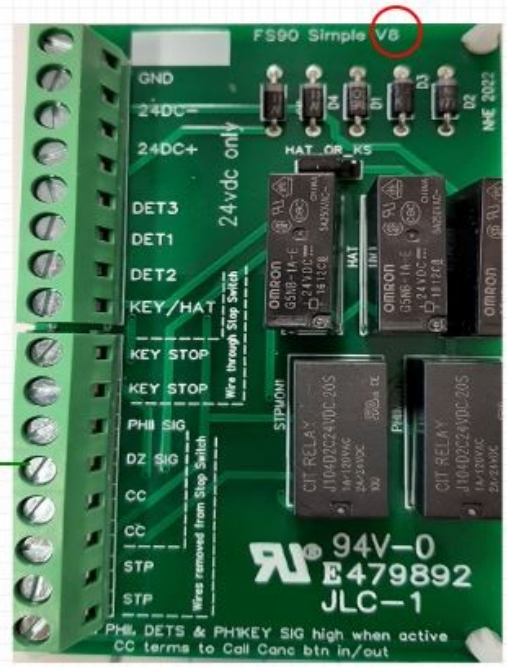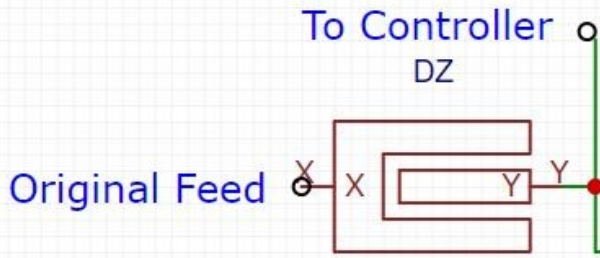**Final DZ Wiring**

To Controller
DZ

Original Feed

X   X   Y   Y

N/O PHI Method 1

1
Smoke

2
Smoke

24vdc Feed

3
Smoke

HEK
PHI KS
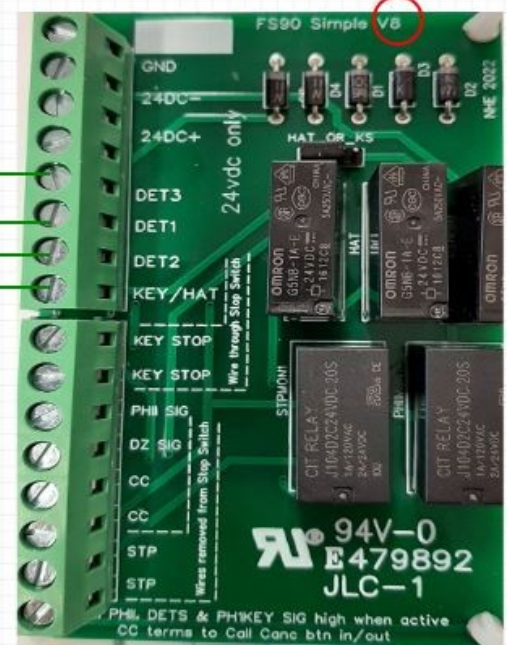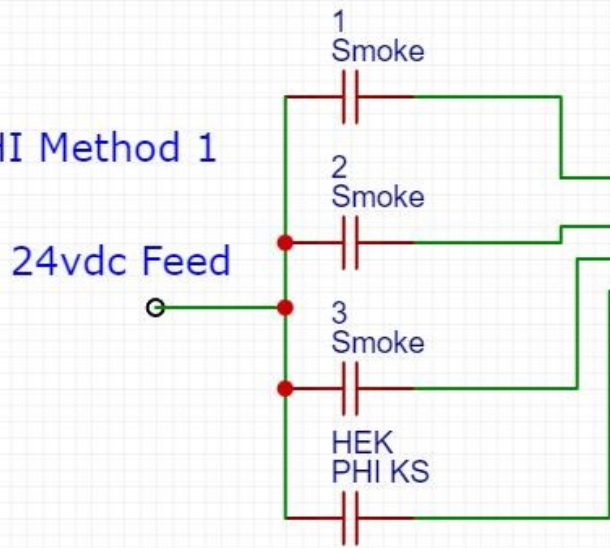
PHI Method 2

24vdc Feed Active High

HAT_OR_KS
Jumper on HAT side

PHI_IC BULB

GND
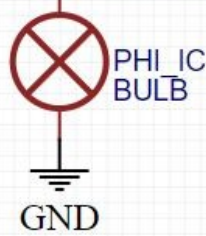
PHI Method 3

24vdc Feed

PHI_IC1 BULB

HAT_OR_KS
Jumper on KS side

CONTROLLER Sinks

GND

NC SMOKE AND PHII SW

Provided Jumper

1
Smoke

2
Smoke

NC to NO FIRE Module

Original Feed

HEK1
PHI KS

PHII1
IN_CAR_SW

OFF

Original Feed

ON

24VDC-
24VDC+

FS90 Simple V8

All Signals Must be 24vdc with common RTN
If other use relay to change Voltage

94V-0
E479892
JLC-1

PHII, DETS & PHIKEY SIG high when active
CC terms to Call Canc btn in/out
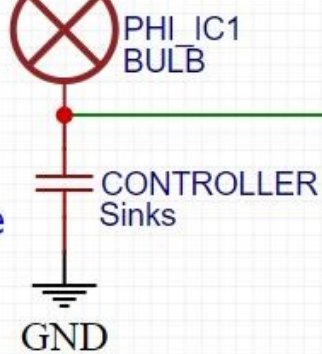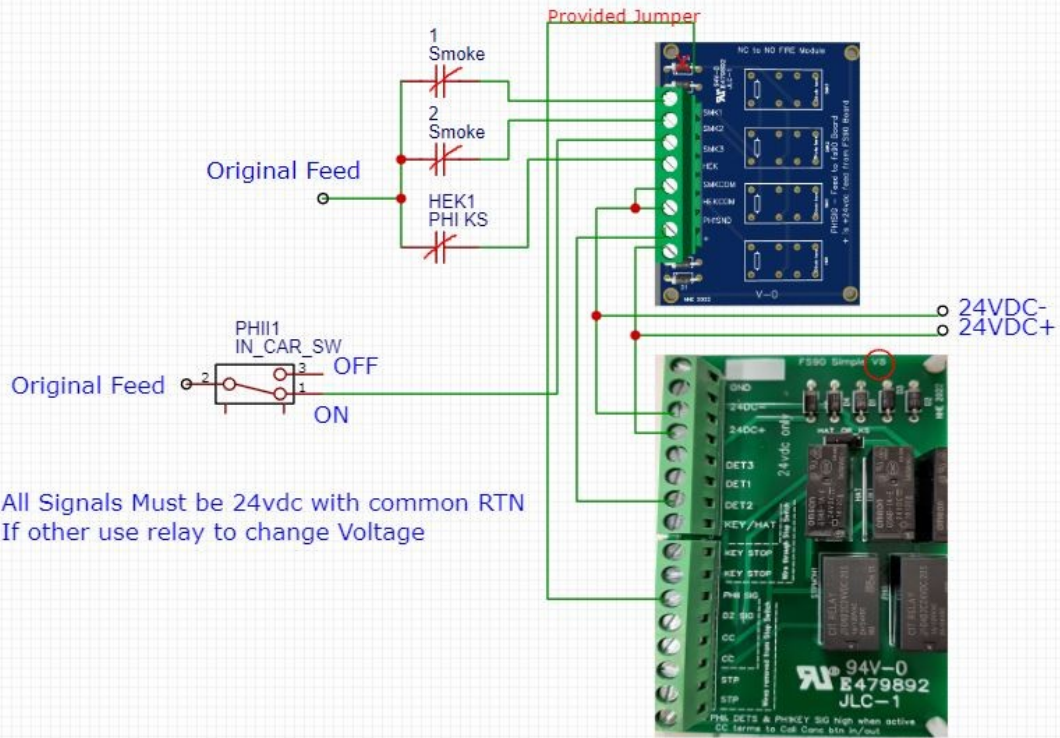
ALT Call Cancel Wiring
Use to Break CCB Feeds

CIT RELAY 15A

FS90 Simple V8

CC1
Car_Button

CC Button Feed

1   2

CC2
Car_Button

1   2

CC3
Car_Button

1   2

94V-0
E479892
JLC-1

PHII, DETS & PHIKEY SIG high when active
CC terms to Call Canc btn in/out