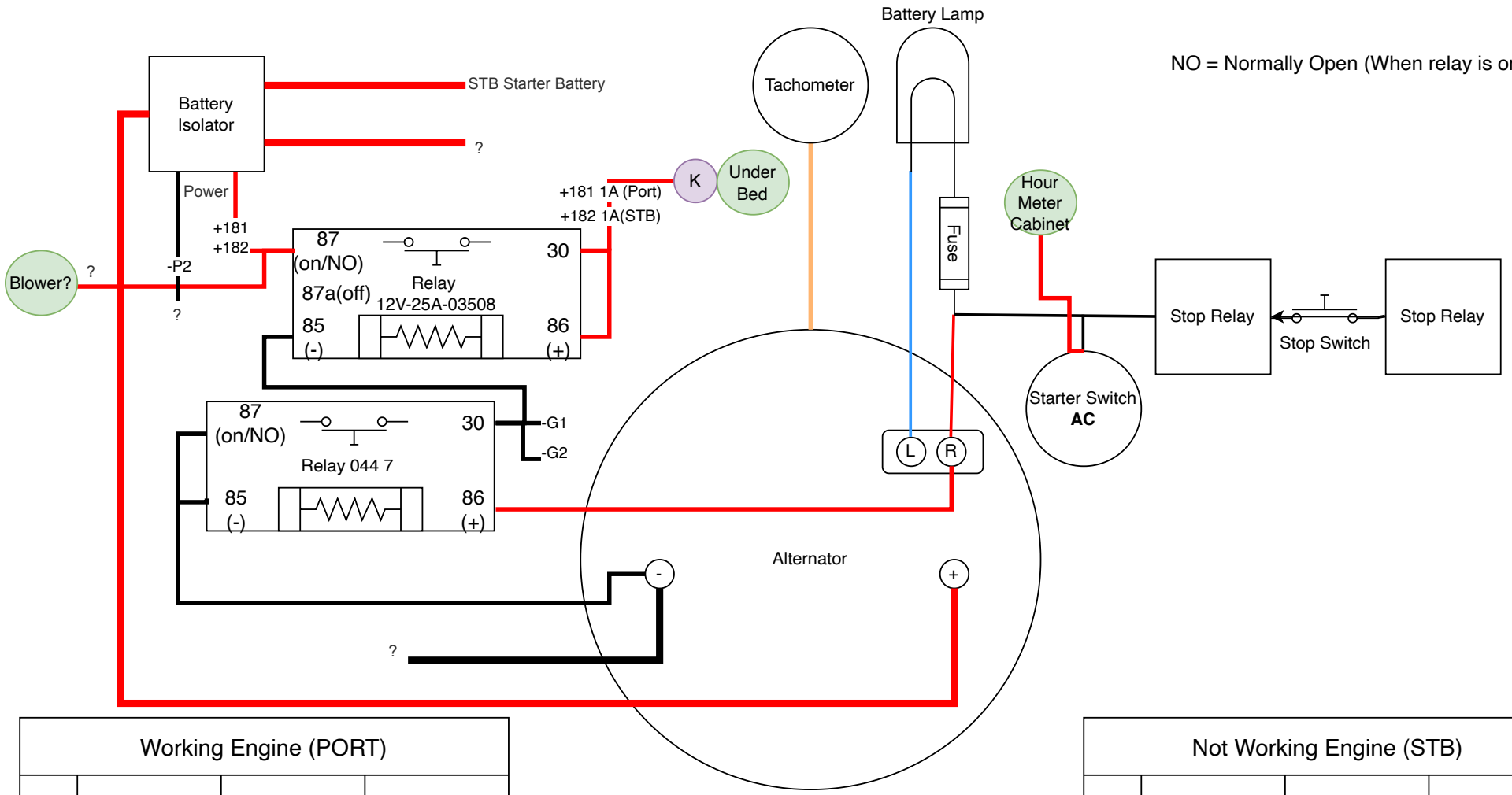

Working Engine (PORT)			
	Off	Ignition	Running
Battery Light	Off	On	Off
L (Con)	0 vdc	3vdc	13vdc
L (NC)	0 vdc	12vdc	13vdc
R Conn)	0 vdc	12vdc	13vdc

L and R Wires			
	Connected to alternator	Disconnected from alternator	Short L to R wire at alternator
Wire at Panel Continuity	22 ohms	Open	1 Ohm

Not Working Engine (STB)			
	Off	Ignition	Running
Battery Light	Off	On (sometimes Off)	On (Has never worked)
L (Con)	0 vdc	3vdc	8vdc
L (NC)	0 vdc	12vdc	12vdc
R Conn)	0 vdc	12vdc	12vdc

(C			
R (NC)	0 vdc	12vdc	13vdc
Battery Isolator	Off	On	On
Alternator Out	0 vdc	0 vdc	13vdc

Engine Off				
Engine Relay	86	Alternator	R	0 Ohms
Engine Relay	85	Alternator	(-)	0 Ohms
Engine Relay	87	Alternator	(-)	0 Ohms
Engine Relay	30	Wall Relay	85	0 Ohms
Engine Relay	87	Engine Relay	85	0 Ohms
Wall Relay	87	Battery Isolator	(+)	0 Ohms
Wall Relay	30	Wall Relay	86	0 Ohms
Engine Relay	30	Engine Relay	87	Open
Wall Relay	30	Wall Relay	87	Open

Ignition On				
Engine Relay	86	Engine Relay	85	12 VDC
Engine Relay	30	Engine Relay	87	0 Ohms

Running				
Engine Relay	86	Engine Relay	85	12 VDC
Wall Relay	86	Wall Relay	85	12 VDC
Wall Relay	30	Wall Relay	87	0 Ohms

(C			
R (NC)	0 vdc	12vdc	12vdc
Battery Isolator	Off	On	On
Alternator Out	0 vdc	10.8vdc	10.8vdc