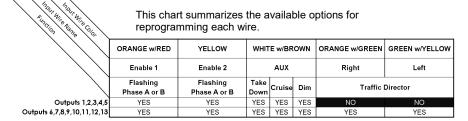
Essential Phazer Advanced Programming

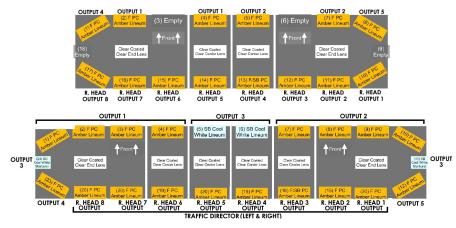
Because each Economy Phazer lightbar is custom designed at the factory, understanding some key points about the design of this lightbar is imperative if you are trying to reprogram any of the advanced options that are available.

- ► This lightbar has 5 main functions:
 - Two flashing functions (ORANGE w/RED and YELLOW wires)
 - Steady burn function (WHITE w/BROWN Wire)
 - Right Traffic Directing (ORANGE w/GREEN wire)
 - Left Traffic Directing (GREEN w/YELLOW wire)
- ► This lightbar has 13 different <u>outputs</u> that are pre-wired to specific head(s) when the lightbar is built. The paperwork enclosed with each lightbar will define which Outputs are tied to each head. This is not a customizable option available through programming.
- All heads attached to the same Output flash on and off together. This cannot be reprogrammed.
- ▶ Each Enable Wire can be re-programmed to activate different Outputs.



Below are the standard layouts for each size lightbar. If customized, yours may differ.

Orange w/Red: (Enable 1) Outputs 1 & 4 (Phase A) & 2 & 5 (Phase B) Outputs 1 (Phase A) & 2 (Phase B) Yellow: (Enable 2) R.Head Outputs 5-8 (Phase A) Outputs 4 & R.Heads 5-8 (Phase A) R. Head Outputs 1-4 (Phase B) Output 5 & R. Heads 1-4 (Phase B) White w/Brown: (Function 3 / AUX) Outputs 4, 5, R. Heads 1 & 8 (Cruise Mode) Output 3 (Takedown/Alley) Orange w/Green: (TD Right) Outputs R. Head 2-7 Outputs R. Head 1-8 Green w/Yellow: (TD Left) Outputs R. Head 2-7 Outputs R. Head 1-8



Output Activation Programming

Each Enable wire activates one or more Outputs. The Outputs that are programmed to activate for each Enable wire (as well as which Heads are tied to each Output) are defined on the paperwork that is enclosed with each bar when shipped. *Please note that each Output is tied to a specific head when the lightbar is built and cannot be changed*.

The Output Activation option that is selected from the chart below is independent for each Enable, so each Enable wire will be programmed separately.

To change the active Outputs for Enable Wires 1, 2, or 3 (Enable 1=Orange w/Red, Enable 2=Yellow, Enable 3/AUX/DIM/Cruise/Steady=White w/Brown) proceed as follows:

- 1. Connect BLACK to GROUND and RED to POWER.
- 2. Connect the Enable Wire that you want to program to **POWER**. The Outputs (i.e. Heads) currently tied to that Enable wire will activate.
- Hold the GREEN w/RED wire to POWER until the light flashes 4 times (approximately 12 seconds). This places the light into Output Activation Programming Mode.
- Touch and release the GREEN w/RED wire to GROUND to scroll through the options below.
 - <u>NOTE:</u> For the Dim function, the activated heads will light up for 1 second after you release the **GREEN w/RED** wire.
 - NOTE: You can reset each wire to its default factory setting for this option by holding the GREEN w/RED wire to GROUND until the light flashes once (~3 seconds)
- 5. Once you have the desired heads activated, disconnect the Enable wire.
- 6. Repeat for each Enable wire that you want to change.

	Output 3	Output 4	Output 5	Output 2	Output 1	R. Head 8	R. Head 7	R. Head 6	R. Head 5	R. Head	4 R. Head S	R. Head 2	R. Head 1
1		ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
2				ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
3						ON	ON	ON	ON	ON	ON	ON	ON
4		ON	ON			ON	ON	ON	ON	ON	ON	ON	ON
5		ON	ON	ON	ON								
6				ON	ON								
7		ON	ON										
8		ON	ON					ON	ON	ON	ON		
9		ON	ON						ON	ON			
10		ON	ON			ON							ON
11		ON	ON			ON	ON					ON	ON
12		ON	ON			ON	ON	ON			ON	ON	ON
13		ON	ON					ON			ON		
14		ON	ON			ON	ON		ON	ON		ON	ON
15		ON	ON				ON					ON	
16	ON												
17	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
18	ON			ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
19	ON	ON	ON			ON	ON	ON	ON	ON	ON	ON	ON
20	ON	ON	ON	ON	ON								
21	ON			ON	ON								
22	ON	ON	ON										
23	ON	ON	ON					ON	ON	ON	ON		
24	ON	ON	ON						ON	ON			
25	ON	ON	ON			ON							ON
26	ON	ON	ON			ON	ON					ON	ON
27	ON	ON	ON			ON	ON	ON			ON	ON	ON
28	ON	ON	ON					ON			ON		
29	ON	ON	ON			ON	ON		ON	ON		ON	ON
30	ON	ON	ON				ON					ON	

Phase Programming

"Phase" refers to whether lights that are activated together flash simultaneously (On and Off at the same time) or if they alternate (one On while the other is Off). All flashing lights programmed for the same Phase will simultaneously flash. All flashing lights programmed for opposite Phases will flash alternately.

Please note that each Output is tied to a specific head and cannot be changed via programming. The Output layout for each bar is shown on the paperwork enclosed with each bar when shipped.

The Phase Programming Mode that is selected from the chart below will affect both Enable 1 and Enable 2, so it is recommended that you activate both when programming.

To change the Phase Mode, proceed as follows:

- Connect BLACK to GROUND and RED to POWER.
- 2. Connect both Enable wires (**ORANGE w/RED** and **YELLOW**) to **POWER**. The flashing lights for both Enable wires will activate.
- 3. Hold the **GREEN w/RED** wire to <u>POWER</u> until the light flashes once, then twice, then 3 times, then 4 times, then 5 times (approximately 15 seconds).
- Touch and release the GREEN w/RED wire to <u>GROUND</u> to scroll through the various Phase Mode options below.
 - NOTE: You can directly Shortcut to Phase option 1 at any time by holding the GREEN w/RED wire to GROUND until the light flashes once (3 seconds)
- 5. Once you have the desired mode, disconnect the Enable wires.
- Activate each Enable wire separately to verify that the Phase Mode you have selected is acceptable.

Output 3
Output 4
Output 5
Output 1
R. Head 8
R. Head 6
R. Head 5
R. Head 4
R. Head 3
R. Head 3
R. Head 3
R. Head 3
R. Head 4
R. Head 3
R. Head 4
R. Head 3
R. Head 4
R. Head 3
R. Head 4
R. Head 3
R. Head 5
R. Head 4
R. Head 3
R. Head 4
R. Head 3
R. Head 4
R. Head 3
R. Head 3
R. Head 4
R. Head 3
R. Head 4
R. Head 3
R. Head 4
R. Head 4
R. Head 3
R. Head 3
R. Head 3
R. Head 4
R. Head 3
R. Head 4
R. Head 4
R. Head 4
R. Head 3
R. Head 3
R. Head 4
R. Head 3
R. Head 6
R.

AUX Mode Programming

The WHITE w/BROWN wire (Enable 3/AUX) can be programmed for three different functions:

- Takedown A bright steady burn mode for Takedown, Pursuit, Ally, or Work lights.
- Cruise A dim steady burn mode typically used for low priority situations such as general patrolling.
- Dim Used to dim all warning lights at night.

To change the AUX Mode, proceed as follows:

- 1. Connect BLACK to GROUND and RED to POWER.
- Connect the Enable 3/AUX wire (WHITE w/BROWN) to POWER. The lights programmed for this wire will activate.
- Hold the GREEN w/RED wire to POWER until the light flashes the number of times that corresponds to the mode you want:
 - Takedown 1 Flash (3 seconds)
 - Cruise Mode Low 1 then 2 Flashes (6 seconds)
 - Dim Function 1, then 2, then 3 Flashes (9 seconds)
 - Cruise Mode High 1, then 2, then 3, then 4, then 5 Flashes (15 seconds)
- 4. Once you have the desired mode, disconnect the wires.

Review page 2 if you need to reprogram which outputs are activated with each function.

Default Setup Programming

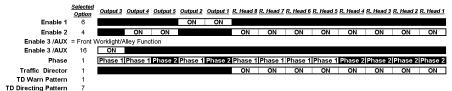
There are two default setups used for most bars. Setup 1 for the standard 65" bars and Setup 2 for the standard 51" bars. The programming for each is outlined in the chart below. To revert a bar to either of these setups, proceed as follows:

- 1. Connect BLACK to GROUND and RED to POWER.
- For Default Setup 1 Hold the GREEN w/RED wire to POWER until the light flashes once (approximately 3 seconds).

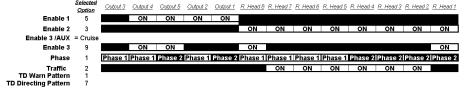
For Default Setup 2 - Hold the GREEN w/RED wire to POWER until the light flashes twice (approximately 6 seconds).

3. Once you have the desired mode, disconnect the wires.

DEFAULT SETUP 1



DEFAULT SETUP 2



Default Traffic Director Mode Programming

There are two TD setups used for most bars, 8-Head or 6-Head. To change the setup from 6 to 8 or vice-versa, proceed as follows:

- 1. Connect BLACK to GROUND and RED to Power.
- Connect the TD Right or TD Left Enable Wire to POWER. The Outputs (i.e. Heads) currently tied to that Enable wire will activate.
- 3. Hold the **GREEN w/RED** wire to **POWER** until the light flashes 4 times (approximately 12 seconds). This places the light into Output Activation Programming Mode.
- Touch and release the GREEN w/RED wire to GROUND to toggle between the two modes (shown below).
- 5. Once you have the desired heads activated, disconnect the wires.

TRAFFIC DIRECTOR OPTIONS

