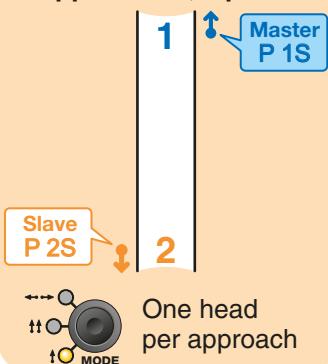


Please see the Operator's Guide for full details of setup and operation

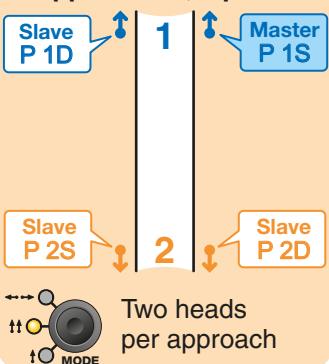
## 1 Set up all signal heads, cones and signs according to Highways Agency regulations.

2 approaches, 2 phases



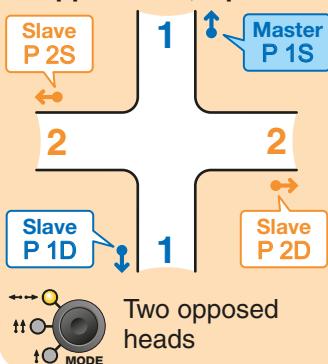
One head per approach

2 approaches, 2 phases



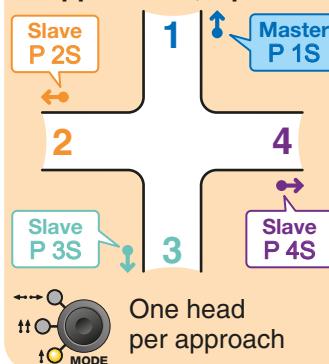
Two heads per approach

4 approaches, 2 phases



Two opposed heads

4 approaches, 4 phases



One head per approach

## 2 For each approach, measure the distance to the WAIT HERE sign furthest away.

## 3 On each slave EVO T2 controller:

a Press **POWER** to switch on.

The text display will briefly show **PIKE** and then **CH01**.\*:



- To choose radio channel 1 (the usual choice), go straight to step **b** below.
- To choose a different radio channel, press **OPTIONS**; with each press, the channel\*\* will increase (up to **17**).

b Press **SELECT** to fix the chosen radio channel. Press **SELECT** again to fix the power setting at **PWR3**.



c If the controller is in slave mode, the text display will show the previously used mode.



d Press **OPTIONS** to scroll through the various traffic (**P**) and/or pedestrian (**X**) slave signal designations (depending on the signal head(s) fitted): e.g. **P 15, X 18**....



e When the required phase setting is displayed, press **SELECT** to fix it. The text display will show **RDY**.



f Press **RUN**. This controller is now ready to begin working with the master. The text display will show **WAIT**.

## 4 On the master EVO controller:

a Press **POWER** to switch on. The text display will briefly show **Pike Signals** and then **Radio Channel 01**\*. Ensure the radio channel matches that of the slaves.



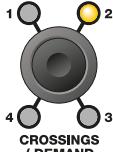
b Press **SELECT** to fix the radio channel. Press **SELECT** again to fix the power setting at **Radio Tx Power 3**.



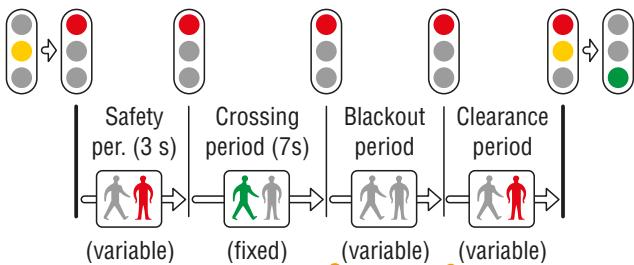
c To set up vehicle phases, see over To set up pedestrian control, see below

### In the pedestrian section:

d Where pedestrian crossings are required, press **CROSSINGS/DEMAND** until the indicator for the appropriate number of crossings is lit (1-4).



e Use the timing buttons in the **PEDESTRIAN CROSSING** section to set the appropriate **BLACKOUT** and **CLEARANCE** times as follows:



**BLACKOUT**  
period (seconds)  
sufficient to allow  
an able bodied  
pedestrian to walk  
the whole of the  
crossing.



**BLACKOUT**  
8.5



**CLEARANCE**

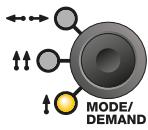
**CLEARANCE**  
setting provides  
an additional  
safety factor (4  
seconds is the  
usual setting).

## 5 On the master EVO controller:

### For each vehicle phase:

- d** Press **MODE/DEMAND** for the phase until the required setting is illuminated:

- ↑ one approach, one head per approach,
- ↑↑ one approach, two heads per approach,
- ↔ two approaches, one head per approach (aka: two opposed heads).



- e** Set the All Red time:

Ensure that the **ALL RED** indicator is on. If it is not, press the **MAX GRN ALL RED** button located in the centre of the panel.

Using the measurement taken earlier (from this phase's **WAIT HERE** sign to the **WAIT HERE** sign furthest away) and the table shown below, use the phase timing button to enter the appropriate time.

*Note: On steep gradients, increase ALL RED time by 5 seconds for the uphill phase(s).*



- f** Set the Maximum Green time

Ensure that the **MAX GRN** indicator is on. If it is not, press the **MAX GRN ALL RED** button located in the centre of the panel.

Using the measurement taken earlier (from this phase's **WAIT HERE** sign to the **WAIT HERE** sign furthest away) and the table shown below, use the phase timing button to enter the appropriate time.



- g** If this and the neighbouring phase need to be linked in order to provide more heads per approach, press the nearby **LINK** button.

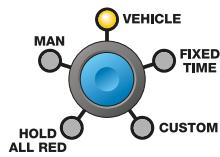
- h** Repeat steps **d** to **g** for each active phase.



## 6 On the master EVO controller:

### Once all pedestrian and/or vehicle phase settings have been made:

- a** Press the blue button to choose the appropriate operation mode. For normal operation, this should be set to **VEHICLE**.



- b** Press **RUN**.

The various signal heads of the installation will now start up in an orderly manner, as follows:

- All pedestrian crossings will show red.
- The lowest numbered vehicle phase will show amber and then go to red.
- The next lowest numbered vehicle phase will show amber and then red. This will continue through all enabled vehicle phases until the final one.
- The final vehicle phase will wait for the longest all red time to run and then changes to green.
- Normal operation will commence once the highest numbered vehicle phase has completed its initial cycle.

The vehicle phase and pedestrian mimics will show what each of the signal heads are currently displaying.

The vehicle **DEMAND** and pedestrian **WAIT** mimics will show how requests are being made to the controller by road users and pedestrians, respectively.

### Notes

\* If a tactile indicator on a pedestrian panel is NOT sensed by the controller during startup, the display will first show **TCTN (NO TACTILE** on T5 or PT5) when it is switched on. Press **SELECT** to acknowledge and continue with set up.



\*\* If any controller (slave or master) does not show the Multi channel logo (**MULTI**), then only radio channels 1 or 2 can be used throughout the installation.