Technical Note

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Title		Configuring an SLM-C in M1 Tune	
Approved By		SD	
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Introduction

This document specifies how to configure an SLM-C when controlled by an M1 ECU. The SLM-C Club Shift Light Module is a compact LED array for use as a 3-stage shift light and warning light. It displays a pre-defined shift light pattern and designated warning lights. For features and specifications, refer to the product [Datasheet](#).

Configuring an SLM-C in M1 Tune

1. From the MoTeC M1 Tune software, select **File** > **Open Package...** (**Ctrl+O**) to open a Package or select **Open ECU...** (**F8**) to connect to the M1 ECU. In the current Workbook, click on the **All calibrate** tab to access the Calibrate Worksheet.

2. In the Calibrate Worksheet, to access the SLM Parameters group, either scroll down the Worksheet or type SLM into the search box (**Ctrl+F**).

3. Select the CAN Bus to which the SLM-C is wired (only one CAN Bus can be selected on M130 and M170 ECUs).

4. SLM-C uses LED 1 and 8 for the Warning Lights and LED 2 through to LED 7 for the Shift Lights. Therefore, the Priority can remain as Shift Lights without affecting the operation of the Warning Light system.
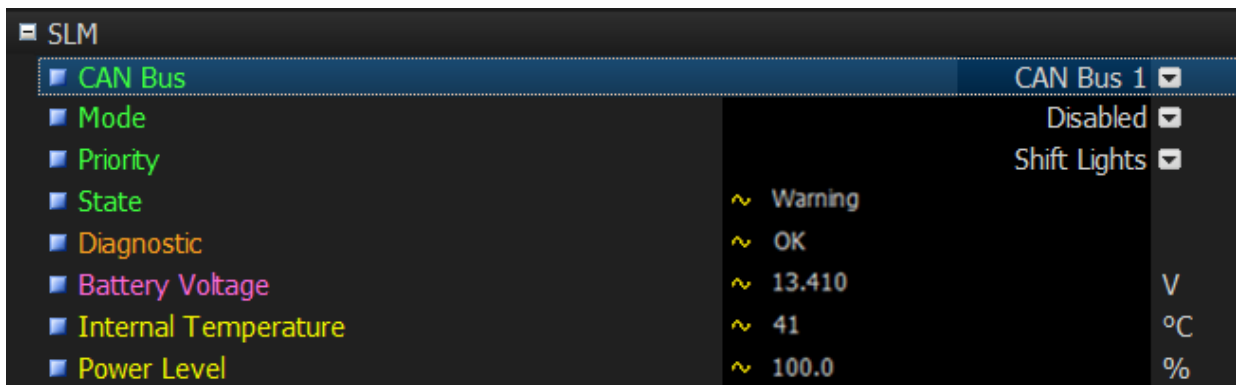
5. Each of the shift light stages must match the SLM-C light sequences, as follows. If the colour is set to Off, the colour and intensity from the previous pattern will be used.

   Note: Allocating colours other than those shown will result in a failure of the SLM-C to show any pattern when that stage is active.

   Stage 1

SLM Stage 1 LED 1 Colour	Off
SLM Stage 1 LED 2 Colour	Green
SLM Stage 1 LED 3 Colour	Off
SLM Stage 1 LED 4 Colour	Off
SLM Stage 1 LED 5 Colour	Off
SLM Stage 1 LED 6 Colour	Off
SLM Stage 1 LED 7 Colour	Green
SLM Stage 1 LED 8 Colour	Off

   Stage 2

SLM Stage 2 LED 1 Colour	Off
SLM Stage 2 LED 2 Colour	Off
SLM Stage 2 LED 3 Colour	Blue
SLM Stage 2 LED 4 Colour	Off
SLM Stage 2 LED 5 Colour	Off
SLM Stage 2 LED 6 Colour	Blue
SLM Stage 2 LED 7 Colour	Off
SLM Stage 2 LED 8 Colour	Off

   Stage 3

SLM Stage 3 LED 1 Colour	Off
SLM Stage 3 LED 2 Colour	Off
SLM Stage 3 LED 3 Colour	Off
SLM Stage 3 LED 4 Colour	Red
SLM Stage 3 LED 5 Colour	Red
SLM Stage 3 LED 6 Colour	Off
SLM Stage 3 LED 7 Colour	Off
SLM Stage 3 LED 8 Colour	Off

6. For each stage, an Engine Speed needs to be defined. This is configured using the **SLM Stage x Engine Speed** table. This can be configured as either a single Engine Speed value, or Gear can be added as an axis to allow for a Gear dependent shift light table to be used. Once the Engine Speed exceeds that set in the **SLM Stage x Engine Speed** table, the lights will remain active until the Engine Speed drops below the **SLM Stage x Engine Speed**.

7. The M1 Warning system controls the operation of the SLM Warning Lights. This is configured by enabling the Warning Mode Parameter for the relevant warning. The Enable Parameters for the individual warnings are configured in the relevant Parameter Grouping. For example, the Engine Oil Pressure Warning values are configured under Engine Oil Pressure Warning.

    As the Warning Light system does not use the same LEDs as the Shift Light function, both sets of lights can be displayed simultaneously.

    Warning Lights

8. The brightness of the LEDs can also be set to suit the driver's preference and ambient light conditions.

    Note: Once the value is set, the brightness levels can only be changed by connecting to the M1 ECU through M1 Tune.

    LED Intensity