1   Load Disconnect Settings

*From the **Main Menu:***

1. Tap the *Distribution Box* Button, then
2. Tap the *Load Disconnect Settings* Button

The Configure TVMS Disconnect page allows you to set the Disconnect Trigger for the RedVision system.

First the trigger type must be chosen from the drop down 'Disconnect When' menu, the default Trigger Type is *'Never'*.

- *Always* - Always Disconnected
- *Voltage* - Triggers based on the voltage at the Batt + terminal on the Distribution Box
- *BMS Voltage* - Triggers on voltage of the Auxiliary Battery as measured by the Manager
- *BMS SoC* - Triggers on SoC of the Auxiliary Battery as measured by the Manager
- *Never* - Always Connected

Next the Disconnect and Reconnect levels must be set, based on the method selected. The App will ensure that Disconnect is always set 5% or 0.5V lower than Reconnect, depending on the trigger type chosen.

Tap *SAVE* to confirm settings.

2   Channels
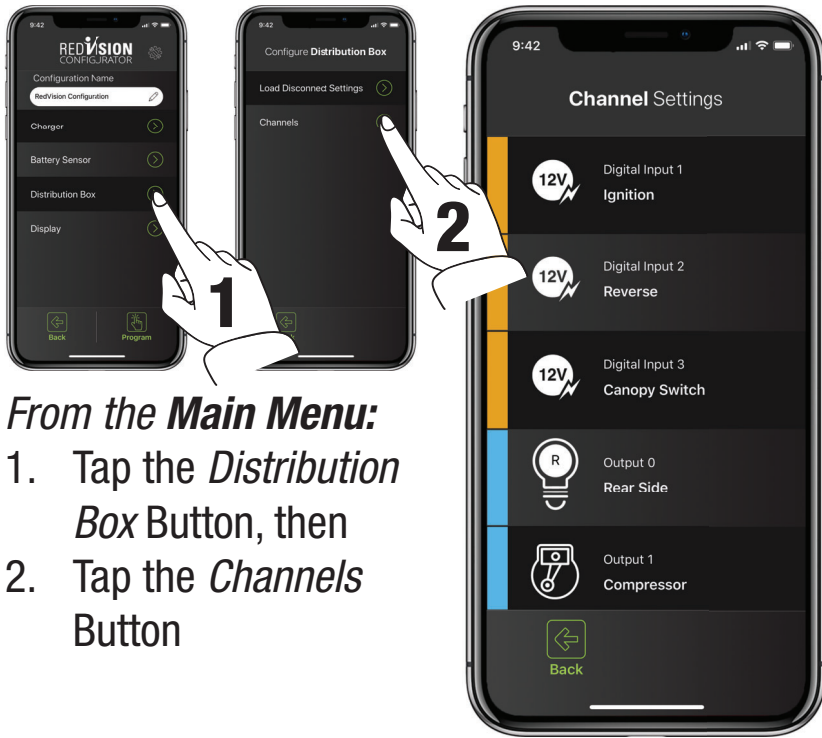
*From the **Main Menu:***
1. Tap the *Distribution Box* Button, then
2. Tap the *Channels* Button

The Channel Settings page allows you to customise each of the connections to your RedVision Distribution Box. Simply put, you can tell RedVision what you have connected to it, and how you want RedVision to control that channel.

There are 5 different types of 'channels' which can be connected to the Distribution Box each indicated by a different colour.
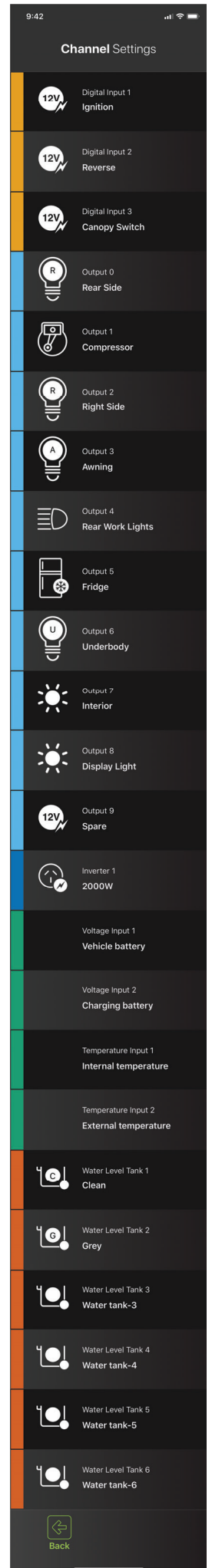
🟧 *Digital Inputs* - You may choose to use these inputs for vehicle ignition and reverse signals, for example, which will allow certain outputs to be turned ON or OFF automatically

🟦 *Outputs* - These are the 5x 30A and 5x 10A channels which you can control from the RedVision App and Screen

🟦 *Inverter* - This channel controls an Inverter connected to the Optional Inverter Connection on the RedVision Distribution Box

🟩 *Sensors* - These control the 2x Voltage and 2x Temperature sensor connections to the RedVIsion Distribution Box

🟧 *Water Tanks* - These control the water tank connections to the RedVision Distribution Box.

2.1   Channel Configuration Options

The Channel Configuration pages allow you to customise the specific details of each channel. Each of the different types of channel, outlined in Section 2, will provide slightly different options at this page.

1. *Channel Details* - Allows labelling of the channel, enabling of the channel and allows the channel to be given an Icon. Please ensure that 'Channel Enabled' is selected. Some Icons give the option of an overlay, which is a one letter descriptor to differentiate multiple instances of the same type of channel (i.e. water tanks).
2. *Input Logic* - Allows definition of the Turn ON criteria for a Digital Input channel.
3. *Analog Alarms* - Provides the option of Under or Over Alarms to trigger based on the Input Measurement. These may be Voltage, Temperature or Water Tank Level.
4. *Tank Settings* - Allows definition of the Water Tank Level sensing device including the type of probe used and the water type stored in the tank (i.e. Clean, Black, Brown etc.)
5. *Inverter Settings* - Allows enabling of Inverter communications settings should a REDARC RS series inverter be connected to the 'Optional Inverter Connection' port on the RedVision Distribution Box.

Tap *SAVE* to confirm settings.

2.2   Output Channel Logic Configuration

Output Channels are the channels connected to the 5x 30A, 5x 10A and the Inverter connected to the RedVision DIstribution Box. Each of these channels must feature a 'Logic Configuration' which defines how the channel behaves.
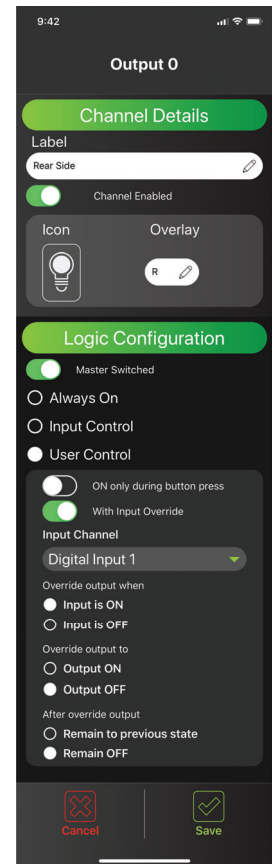*Master Switched* - This switch enables the Master Switch Function for this channel. This switch defaults to ON.
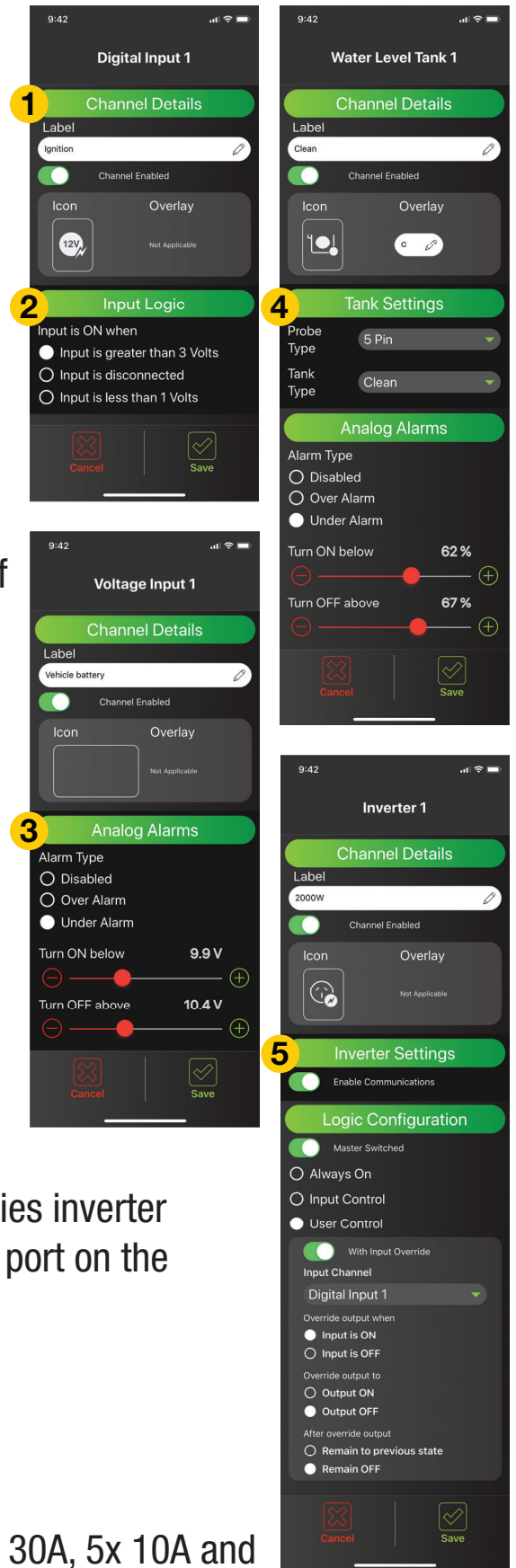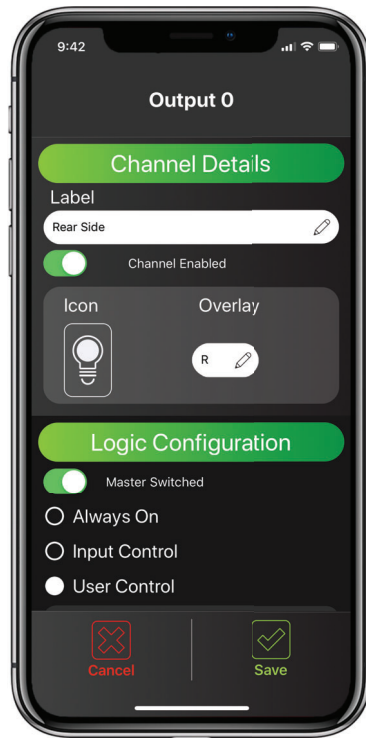
*From the **Channel Settings Menu:***

- Tap the *Channel* that you wish to modify

There are three main Logic Configuration types that can be used:

1. *Always On* - This will ensure that the selected channel is Always On. This could be used for a fridge, for example, so that you don't accidentally turn it OFF.
   NOTE: This setting will still be controlled by the Master Switch if enabled.

2. *Input Control* - This will ensure that the selected channel is ONLY turned ON or OFF with a Digital Input (discussed in Section 2). An example of this is a door switch turning on a light.

3. *User Control* - This allows the selected channel to be turned ON or OFF using the Soft Keys on the display or via the Buttons on the App.
   In User Controlled mode, ON only during button press and/or Input Override can be selected. The channel will default to have both of these turned OFF.
   ON only during button press - Allows the channel to only be active while the button/Soft Key is depressed. This may be used for raising or lowering steps or an awning.
   Input Override - Allows the channel to be locked ON or OFF by a Digital Input as well as via User Control.

Digital Input Control - In either Input Control or User Control with Input Override mode, allows definition of the channel function in the instance of a Digital Input Trigger.

Override output when - Defines if the Output is Triggered when the Input is ON or OFF.

Override output to - Defines the state the Output is Triggered to in this instance.

After override output - Defines the return state of the Output after the Trigger is no longer detected.

Tap *SAVE* to confirm settings.