Meta System

M43J(T) Immobiliser

Installation and Operating Guide

V2.2

17/02/20

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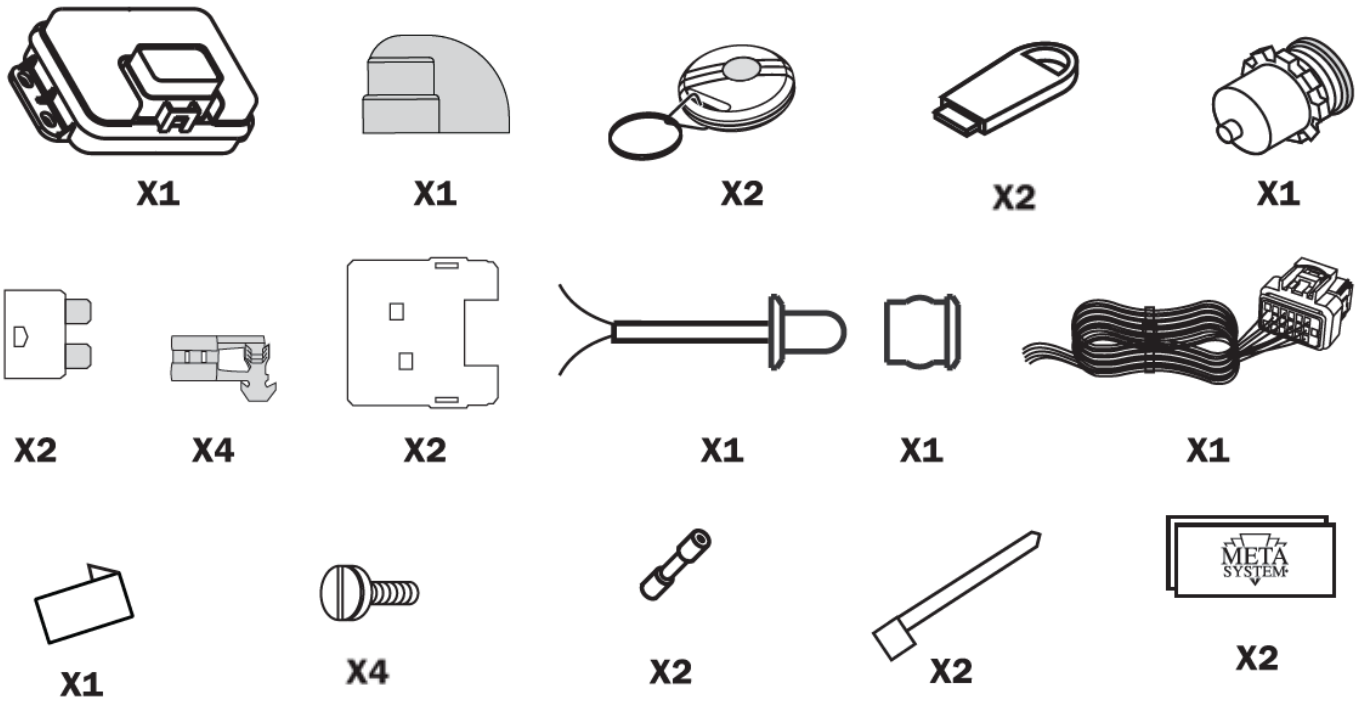


ELECTRICAL CHARACTERISTICS

Operating Voltage M43J 12v Version	12V	(9-15V)
Operating Voltage M43J 24v Version	24V	(18-30V)
Current consumption (Ign. OFF)	<3mA	
Relay Current Rating (Wires 7+8)	8A	
Relay Configuration	Normally Open	
Relay Current Rating (Wires 4+5)	10A	
Relay Configuration	Normally Open (in-built Fail-Safe circuitry)	

OPERATION

MANUAL MODE

ARMING:

Approx. 15 seconds after Ignition OFF the immobiliser **will ARM** and the LED will flash **every 2 seconds**.

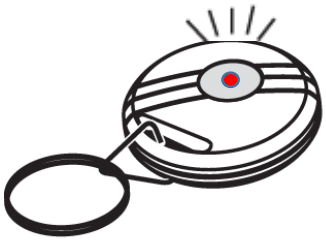
If the Ignition is switched ON **without pressing the ID-Tag button** the Immobiliser LED will become ON solid to indicate the immobiliser is still armed.

DISARMING:

Once inside the vehicle **press the button of the ID-Tag** and start the vehicle **within 8 seconds**; the immobiliser LED will flash twice and then extinguish.

AUTOMATIC (Proximity) MODE

In Automatic mode the button of the ID-Tag will flash briefly once every 5 seconds.



ARMING:

Approx. 15 seconds after Ignition OFF and the ID-Tag out of range* the immobiliser **will ARM** and the LED will flash **every 2 seconds**.

In any case, the **ID-Tag will be switched off after 20mins if it is not in motion.*
As soon as the ID-Tag detects movement it will automatically switch ON again.

If the Ignition is switched ON **without the ID-Tag** present the immobiliser LED will be ON solid

DISARMING:

Simply start the vehicle as normal, the ID-Tag will automatically be detected; the immobiliser LED will flash twice and then extinguish.

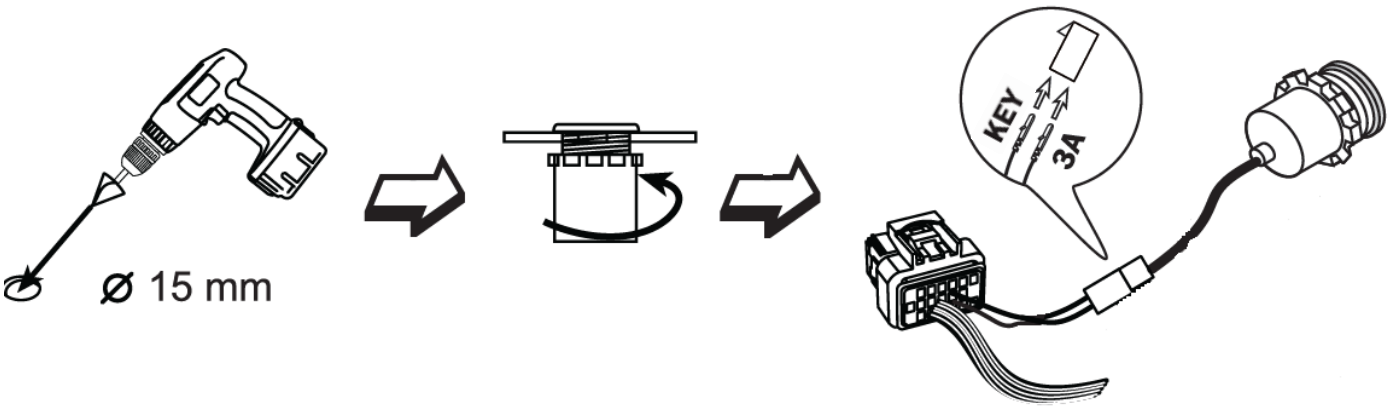
VALET MODE

(Non-Insurance Installations Only)

To set the immobiliser into Valet mode insert the service key into the receptable momentarily; the LED will give one long flash to confirm.

The immobiliser will now remain in a disarmed state until the service key is used again. Thereafter, the immobiliser will return to automatic arming mode.

Service Key Receptacle Installation



For Non-Insurance installations install the receptacle in a location accessible to customer in order allow use of the service key for Valet mode.

NOTE: For THATCHAM CAT2 Installations

The receptable **MUST NOT in mounted in a location accessible to the customer**; Valet mode is not allowed. Attach the receptable to the wiring harness in a way that it can be accessed by a dealer for future ID-Tag programming.

WIRING DIRECTIONS and PRECAUTIONS

1 Connect to **IGNITION** (+15) via the supplied fuse and holder.
ENSURE the ignition remains live whilst cranking

2 Connect to Permanent **POSITIVE** (+30) via the supplied fuse and holder.

3 Connect to **GROUND** (-31)

3B Connect to a different **GROUND** (-31) point

KEY See Diagram on next page

3A

LED Connect to RED/BLACK of **LED**

3C Connect to BLACK of **LED**

RELAY 1

4 Connect to **SUPPLY side** of cut (fuel pump, ignition relay etc)

5 Connect to **LOAD side** of cut (fuel pump, ignition relay etc)

6 Not Used

NOTE: *Do not cut a permanent live circuit; cutting a negative control circuit is possible if required.*

RELAY 2

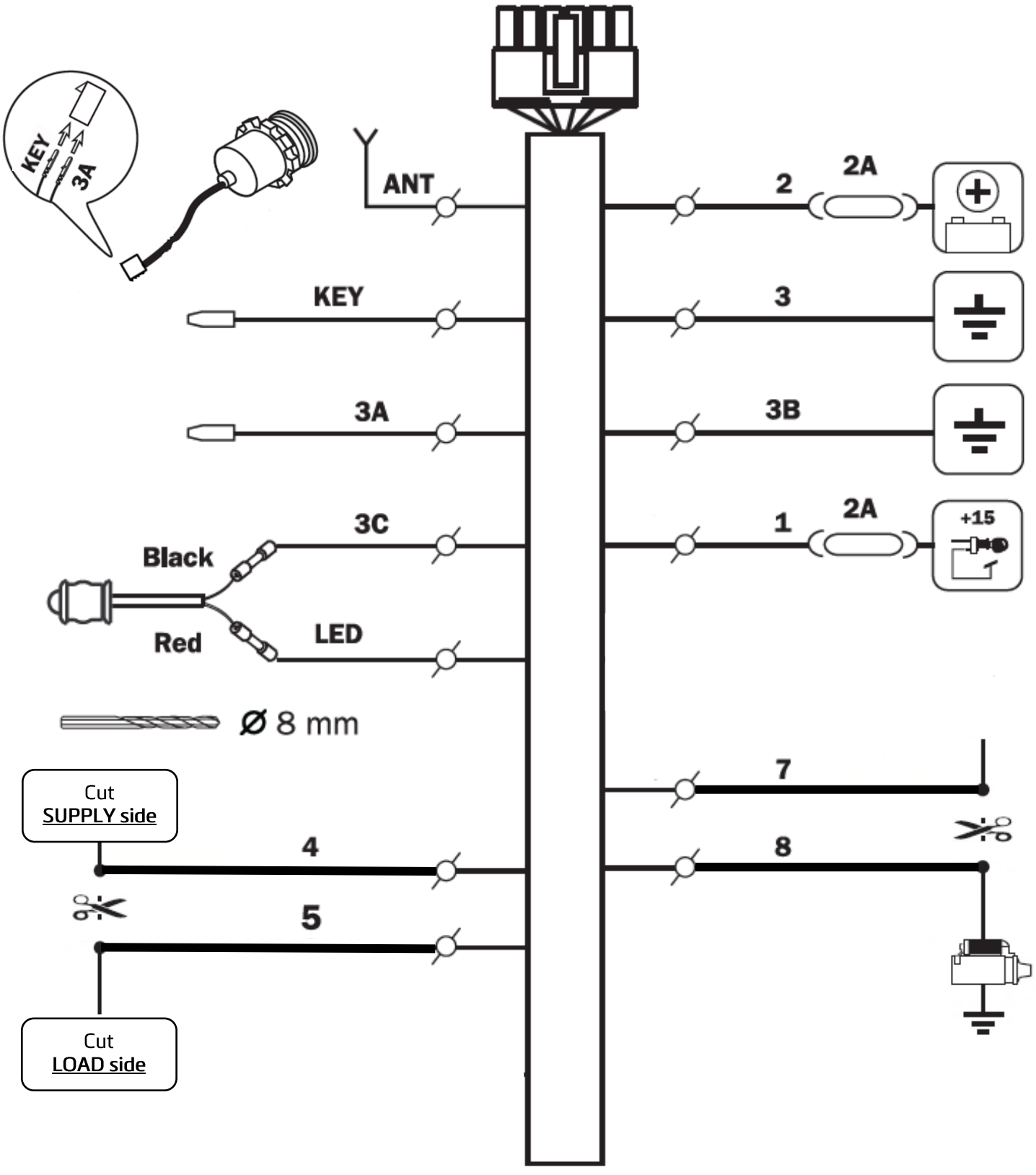
7 Connect to **SUPPLY side** of **STARTER** cut

8 Connect to **LOAD side** of **STARTER** cut

10 Not Used

ANT The majority of the wire can be taped into the wiring loom; ensure the last 24cm is free.

WIRING DIAGRAM

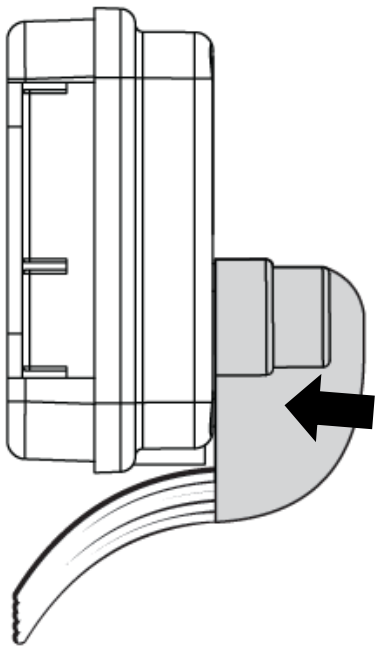


Check Service Key and ID-Tag Operation

1. With the ignition OFF and the immobiliser armed, insert the Service Key into receptable momentarily; the LED will give one long flash.
2. Press the button of the first ID-Tag and check the immobiliser LED flashes once.
3. Repeat for the second ID-Tag.
4. Insert the service key a second time and check the immobiliser arms after 15 seconds.
5. Finally, test the operation of the immobiliser according the selected operation type; see page 'OPERATION'.

Finalising the Installation

After completing the installation and successfully testing the operation, fit the connector cover firmly into place.



Replacement ID-Tag Programming

NOTE: When adding a new ID-Tag all existing ID-Tags must also been reprogrammed.

Preparing the ID-Tags for programming:

New ID-Tags: Ensure the ID-Tags are not flashing; if they are then follow the instructions for 'Existing ID-Tags'.

Existing ID-Tags: Remove the ID-Tag battery for 5 seconds then re-insert.

Programming ID-Tags

1. Insert and hold the Service Key into the receptacle until the immobiliser LED starting flashing rapidly; approx. 10 seconds.

2. Press and hold the ID-Tag button until the ID-Tag LED becomes solid then release; approx. 10s. The immobiliser LED with go solid for 10s to confirm programming of the ID-Tag.

   Repeat for each ID-Tag (up to max. 4).

3. To exit programming mode insert the Service Key momentarily.

4. Within 15 secs (before the immobiliser arms) you can check the ID-Tags are programmed correctly by pressing the button, the Immobiliser LED should illuminate briefly with each press.

NOTE: After programming ID-Tags they will be in AUTOMATIC mode!

If you require the ID-Tags to operate in **MANUAL mode**, simply remove the battery for 5 seconds and re-insert; the ID-Tag is now in MANUAL mode.

TROUBLESHOOTING

The Immobiliser clicks when trying the start the vehicle:

a. Ensure the wires 'KEY' and '3A' have been inserted into the 2-way connector supplied.

b. Ensure the ignition connection is not on the dead side of the cut i.e. it must remain live when the cut is open.

The Immobiliser does not ARM:

a. Ensure the immobiliser is not in VALET mode; insert the service key to toggle.

b. With the ignition OFF, ensure wire No. 5 has no residual voltage. If you are unsure try disconnecting the and re-check arming.

Dealer Support

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Mon-Fri 9am-5pm for installation support

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