

Car Advanced Technology - Volvo Specific

CARAT Switch Systems

Developed in conjunction with Volvo's SPA platform and compatible with most 60 & 90 Series cars from 2019, new 40 Series models as well as the Poletsar electric range

CMP DEVICE



CSDS DEVICE

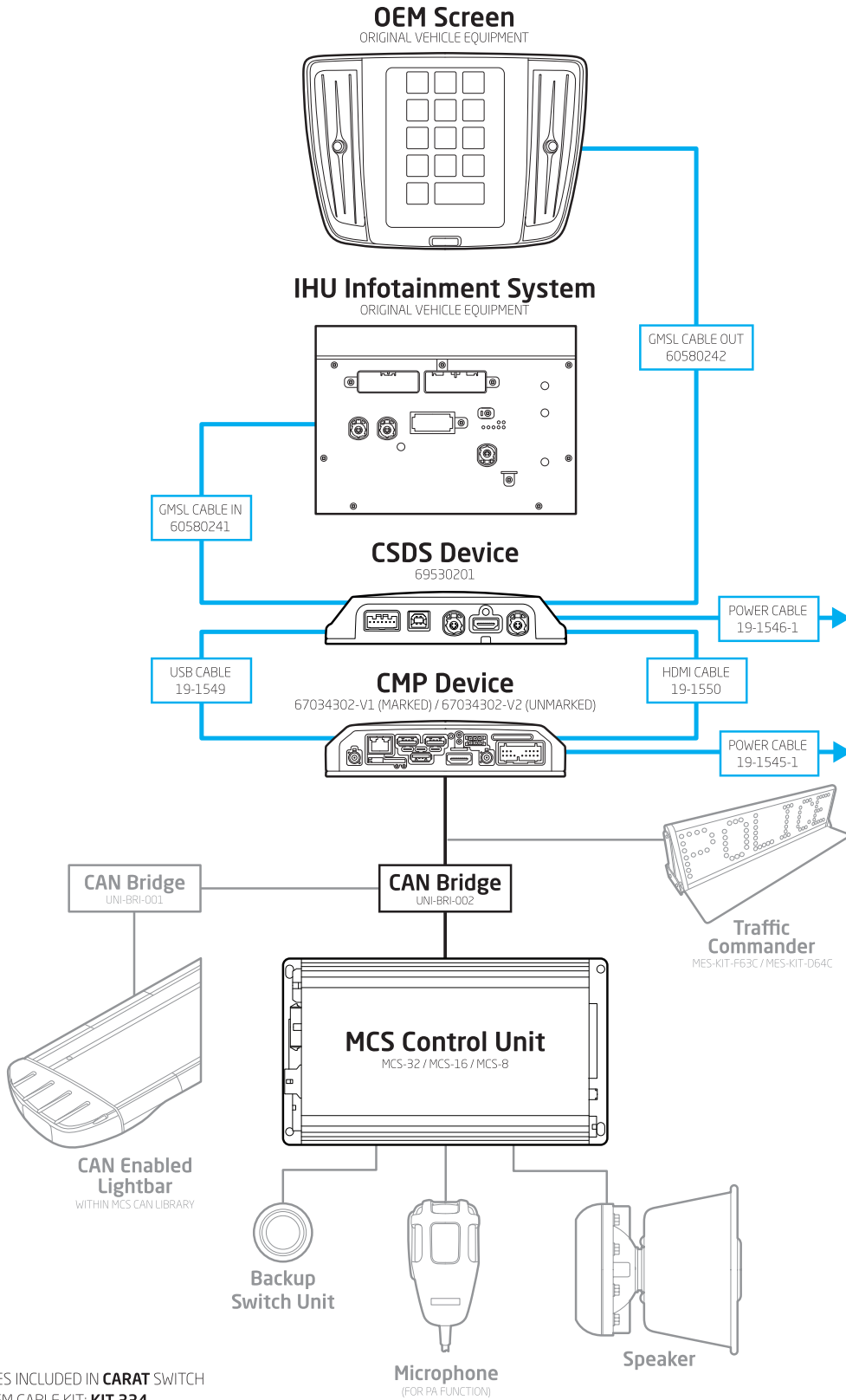


MCS DEVICE



CARAT Switch System

Combine and control Blue Lights, Siren and optional LED Matrix Display with CMP and CSDS devices via a MCS Control Unit

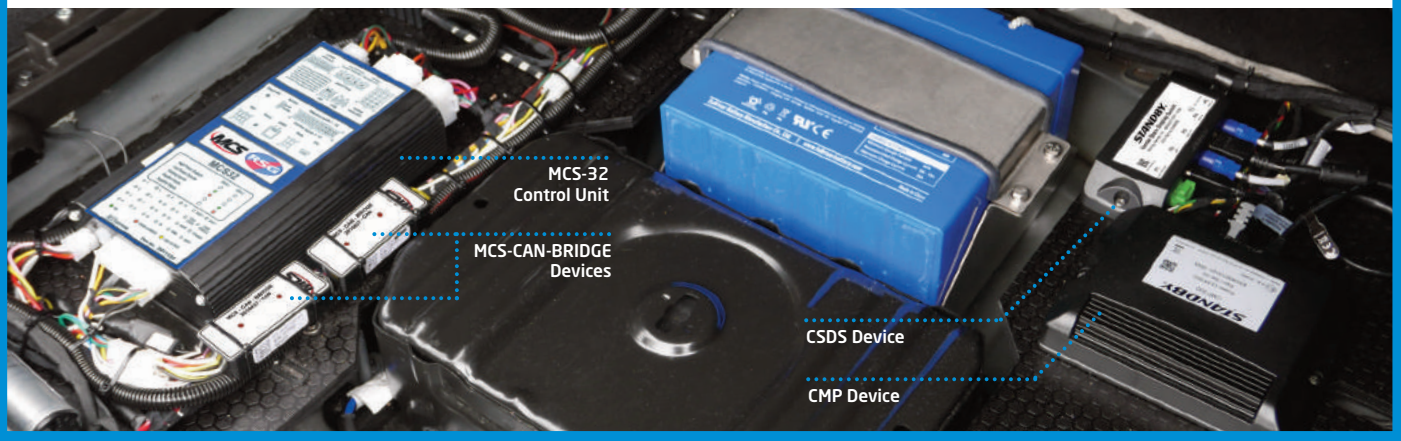


KEY:
— CABLES INCLUDED IN **CARAT SWITCH SYSTEM CABLE KIT: KIT-334**
— OPTIONAL ADDITIONS TO THE SYSTEM

CARAT Switch System

Contains: CMP Device, Operating Software, Cables (KIT-334) and Software License.
Also requires CSDS device - order separately.

Note: The system is to be matched to the vehicle type - Marked or Unmarked		
DESCRIPTION	PART NUMBER	
CARAT Control System for Marked Vehicle with Matrix Messages function.	KIT-CMP-V1	
CARAT Control System for Unmarked Vehicle with Matrix Messages function.	KIT-CMP-V2	
MCS CAN Bridge with CAN connections to interface with CAN controlled lightbars. Note: The lightbar must be within the lightbar CAN library of the MCS configurator editor.	UNI-BRI-001	
MCS CAN Bridge with CAN connections (telematics and remote control interface). Note: Required to interface CMP with MCS.	UNI-BRI-002	
DESCRIPTION	PART NUMBER	
CSDS Device (Center Stack Display Switch) - Volvo - Hardware - No Cables	69530201	



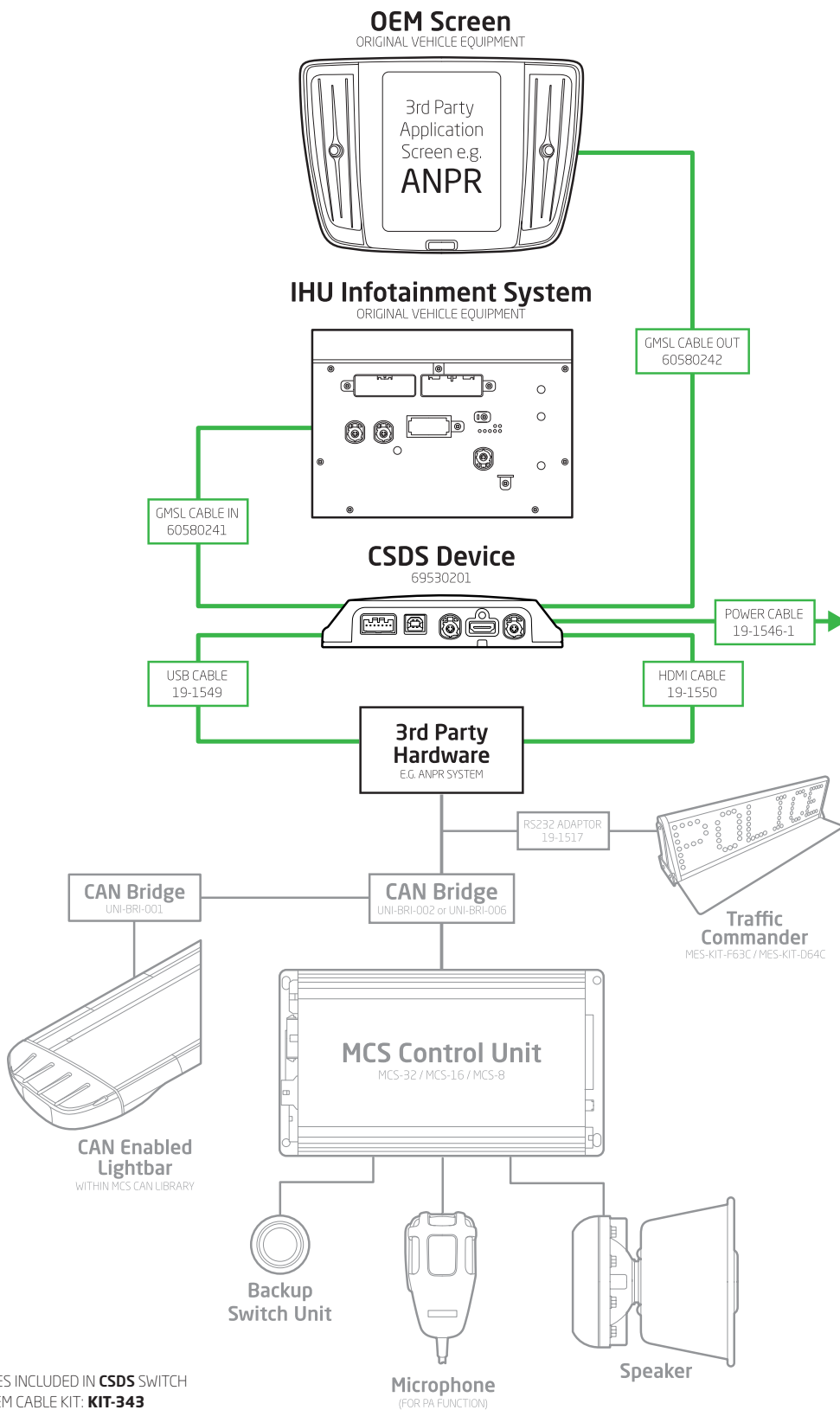
Center Stack Display Switch System

Contains: Center Stack Display Switch (CSDS) and Cables (KIT-343).
For use by 3rd party application - typically ANPR e.g. Cleartone or Attobus.

DESCRIPTION	PART NUMBER	
CSDS Center Stack Display Switch - Volvo - Hardware - No Cables	69530201	
Cable kit for CSDS/ANPR System (does not include the CSDS device) includes: CSDS Power Cable - 19-1546-I CSDS - USB Cable to CMP - 19-1549 CSDS - HDMI Cable to CMP - 19-1550 CSDS - GMSL Cable IN - 6 metres - 60580241 CSDS - GMSL Cable OUT - 6 metres - 60580242	KIT-343 (Not required when CMP Controller is specified)	
MCS CAN Bridge with CAN connections to interface with CAN controlled lightbars Note: The lightbar must be within the lightbar CAN library of the MCS configurator editor.	UNI-BRI-001	
MCS CAN Bridge with USB A connection (telematics and remote control interface).	UNI-BRI-003	
MCS CAN Bridge with DB9 connection (telematics and remote control interface).	UNI-BRI-006	
Traffic Commander - Matrix Display RS232 Adaptor.	19-1517	

Center Stack Display Switch System

Link 3rd party GUI and equipment to the vehicle OEM screen such as ANPR utilising the Center Stack Display Switch (CSDS) and cable set



CARAT Switch Systems

Volvo Cars Ready Made Solutions

OVERVIEW

CARAT Switch Systems make it possible to display switch graphics (GUI - Graphical User Interface) generated within the CMP device on to the Volvo OEM display via the CSDS (Center Stack Display Switch) which acts as a video mixing unit for the associated video source. Noting this is all achieved by utilising a MCS control unit.

CARAT Switch Systems integrate with the vehicle infotainment display to provide a clean and driver safe GUI, allowing discreet monitoring and control of vehicle and emergency services equipment.

The CSDS Device of the CARAT system can also be independently utilised with other 3rd party solutions so system integrators can have more independence to apply their own integral GUI with the OEM screen. Noting for these applications some extra 3rd party cables and switches maybe required.

Developed in conjunction with Volvo's SPA platform and compatible with most 60 & 90 Series cars from 2019, new 40 Series models as well as the Polestar electric range.

BENEFITS

- A unique solution that is integrated into Volvo's infotainment system
- Double tapping the home button switches to the external source view
- Discreet overview control of hazard warning equipment
- Provides a clean and safe driver environment

APPLICATION OPTIONS

The CMP and CSDS links with a MCS device to control in-house and/or 3rd party blue lights and sirens.

CARAT Switch System

A Standby RSG exclusive offering to combine and control Blue Lights, Siren and LED Matrix Display via a CMP and CSDS Devices. Solutions available for both marked and unmarked vehicles, see button layouts below.

Center Stack Display Switch (CSDS) System

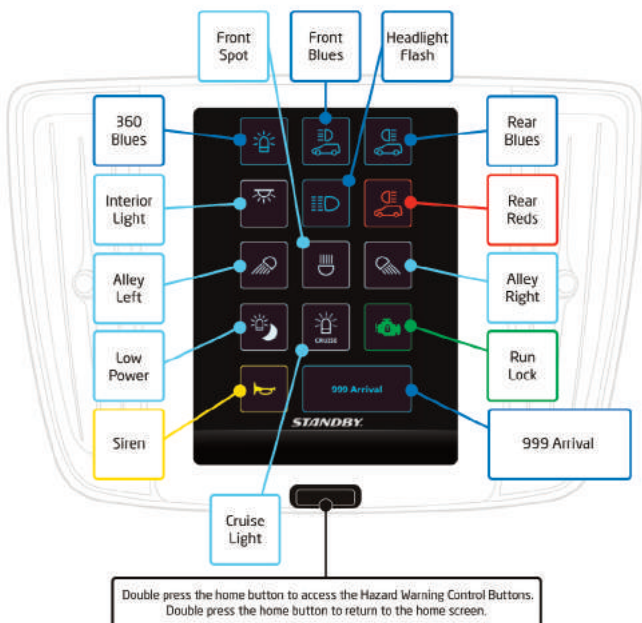
To meet 3rd party applications e.g. ANPR the CSDS alone can be utilised to link 3rd party GUI and equipment to the vehicle OEM screen. To avoid operational ambiguity, each distinct application would have its own 'easy access' and unique 'operational screen' and if appropriate Sub Menu sets.

Standby RSG can provide technical support to assist in 3rd party applications via the CSDS.

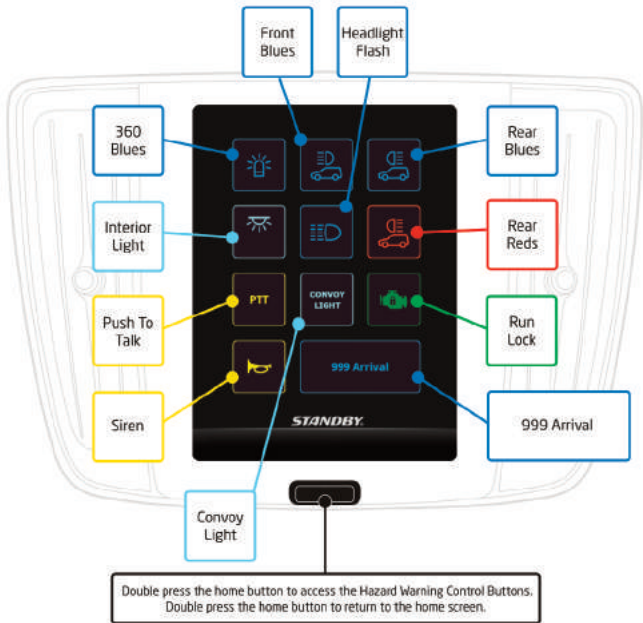
CSDS DEVICE



CARAT SWITCH SYSTEM BUTTON LAYOUT:
Marked Vehicle



CARAT SWITCH SYSTEM BUTTON LAYOUT:
Unmarked Vehicle

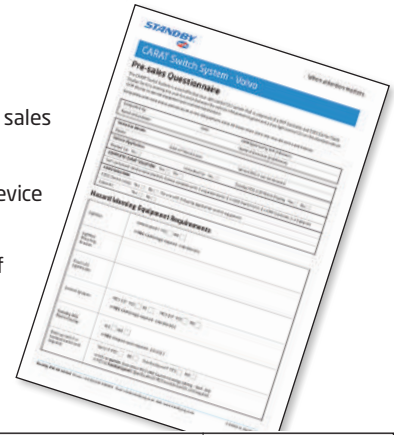


How to Order

Complete pre-sales questionnaire (C-10669-A).

To ensure your system is specified correctly please complete the pre-sales questionnaire where our sales or technical staff will be happy to assist.


- Notes:**
- 1. Complete CARAT System:** To make-up a complete Standby CARAT Switch System a **CSDS** device plus the relevant **CMP** device is required
 - 2. CSDS Solution:** For 3rd party applications only a **CSDS** device is required plus a **cable kit** if necessary



Component Part/Spares

DESCRIPTION	PART NUMBER
CSDS - Center Stack Display Switch - Volvo - Hardware - no cables	69530201
CARAT Control system for Marked vehicle with Matrix messages function	KIT-CMP-V1
CARAT Control system for Unmarked vehicle with Matrix messages function	KIT-CMP-V2
CMP Hardware/License V1 Marked Vehicle with Matrix Messages (only)	67034302 - V1
CMP Hardware/License V2 Unmarked Vehicle with Matrix Messages (only)	67034302 - V2
CMP CARAT Power Cable	19-1545-I
CSDS - Power Cable	19-1546-I

DESCRIPTION	PART NUMBER
CSDS - USB Cable to CMP	19-1549
CSDS - HDMI Cable to CMP	19-1550
CSDS - GMSL Cable IN - 6 metres	60580241
CSDS - GMSL Cable OUT - 6 metres	60580242

DESCRIPTION	PART NUMBER	
Cable kit for CARAT Switch System (does not include the CSDS device) includes: CMP CARAT Power Cable - 19-1545-I CSDS Power Cable - 19-1546-I CSDS - USB Cable to - CMP 19-1549 CSDS - HDMI Cable to - CMP 19-1550 CSDS - GMSL Cable IN - 6 metres - 60580241 CSDS - GMSL Cable OUT - 6 metres - 60580242	KIT-334 (Not required when CMP Controller is specified)	



VOLVO vehicles conversion by Hall's Electrical Limited

CARAT Switch System
 Combine and control Blue Lights, Siren and LED Matrix Display via CMP and CSDS Devices.
 Solutions available for both marked and unmarked vehicles.



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