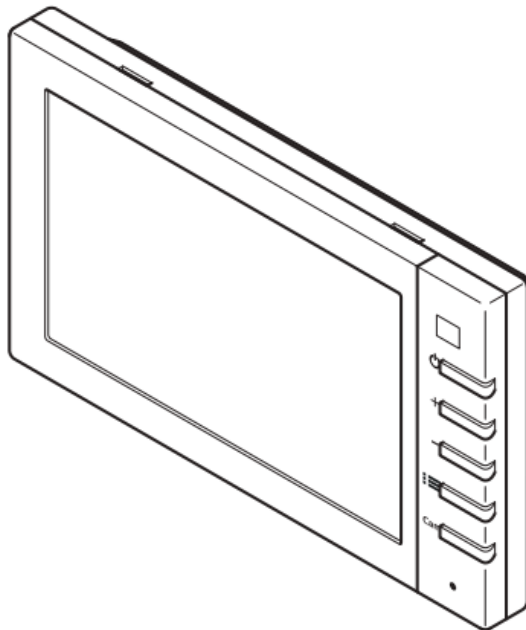
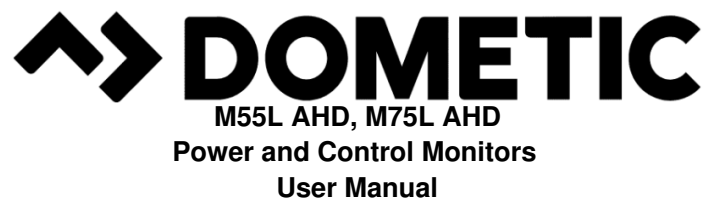




DOMETIC M55L AHD Power and Control Monitors User Manual

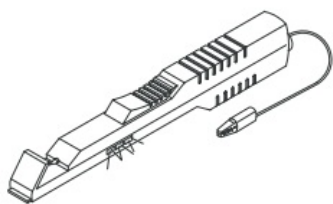
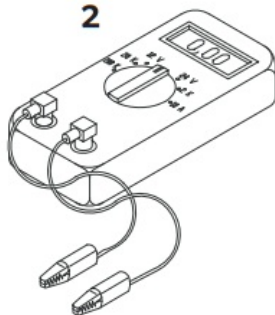
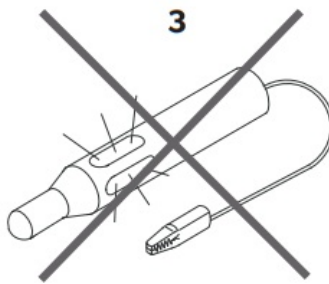
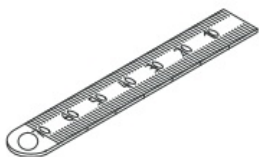
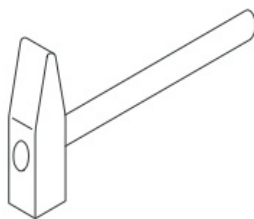
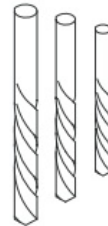
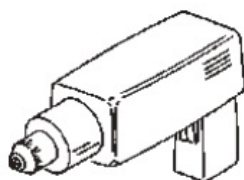
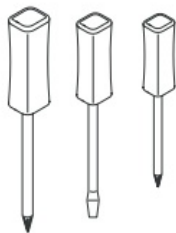
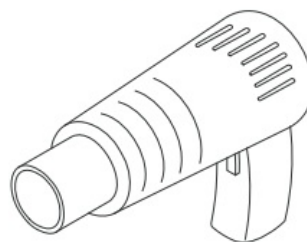
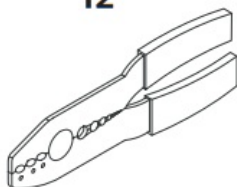
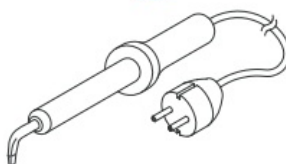
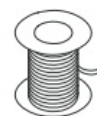
[Home](#) » [Dometic](#) » DOMETIC M55L AHD Power and Control Monitors User Manual 

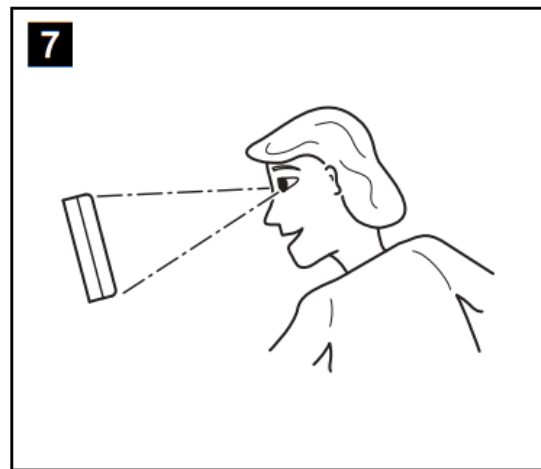
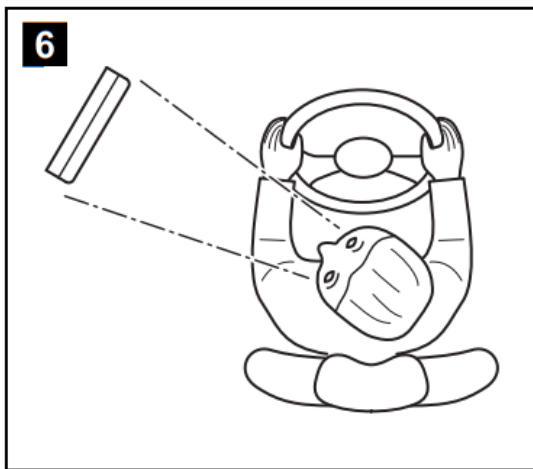
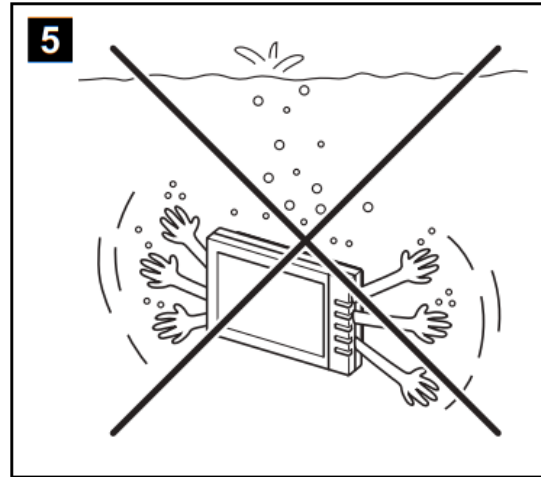
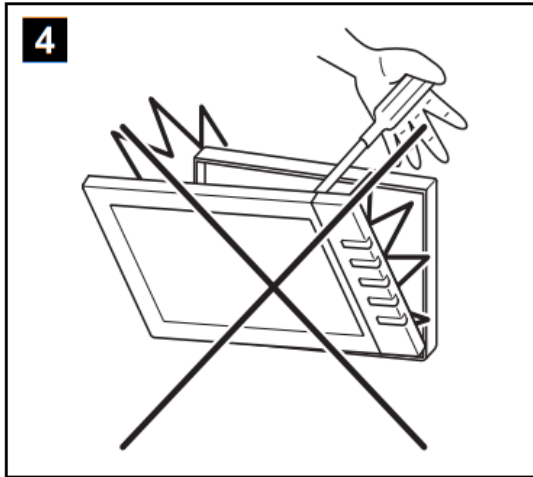
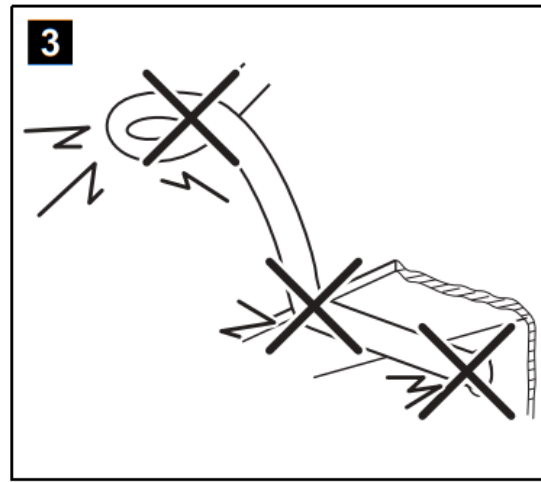
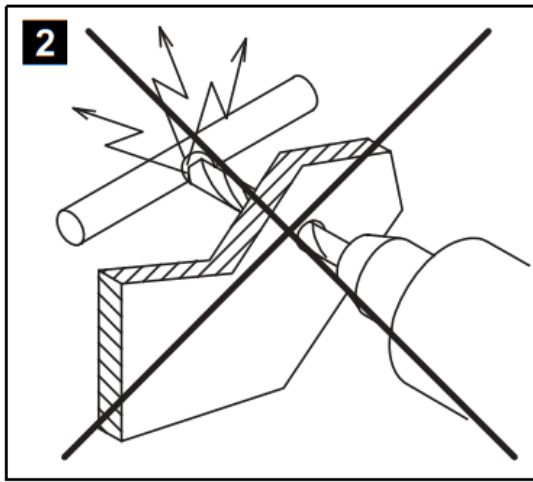


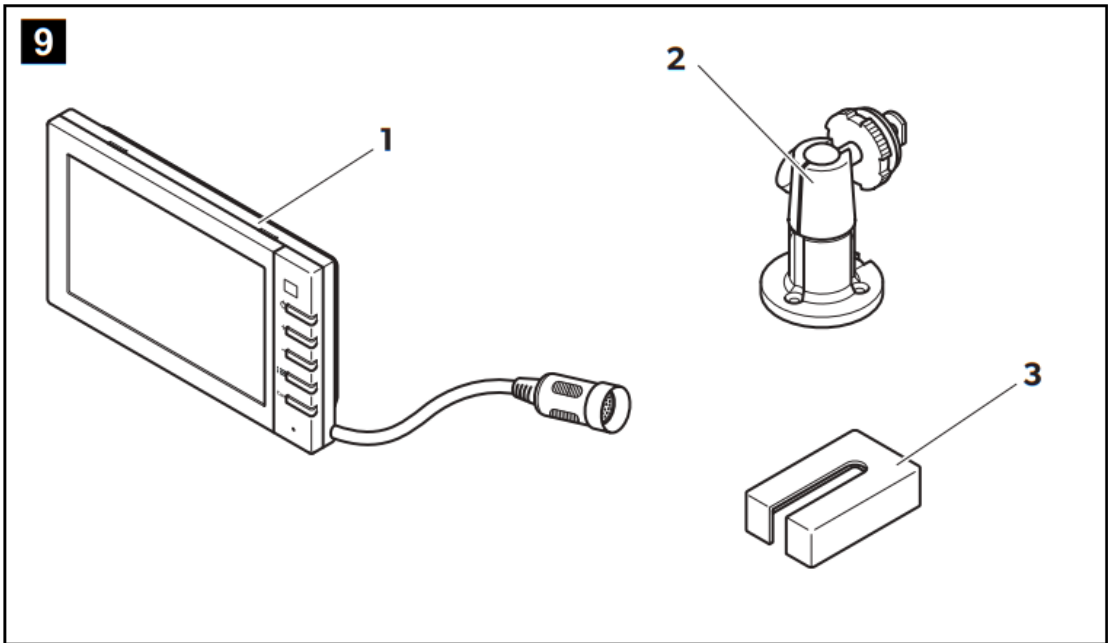
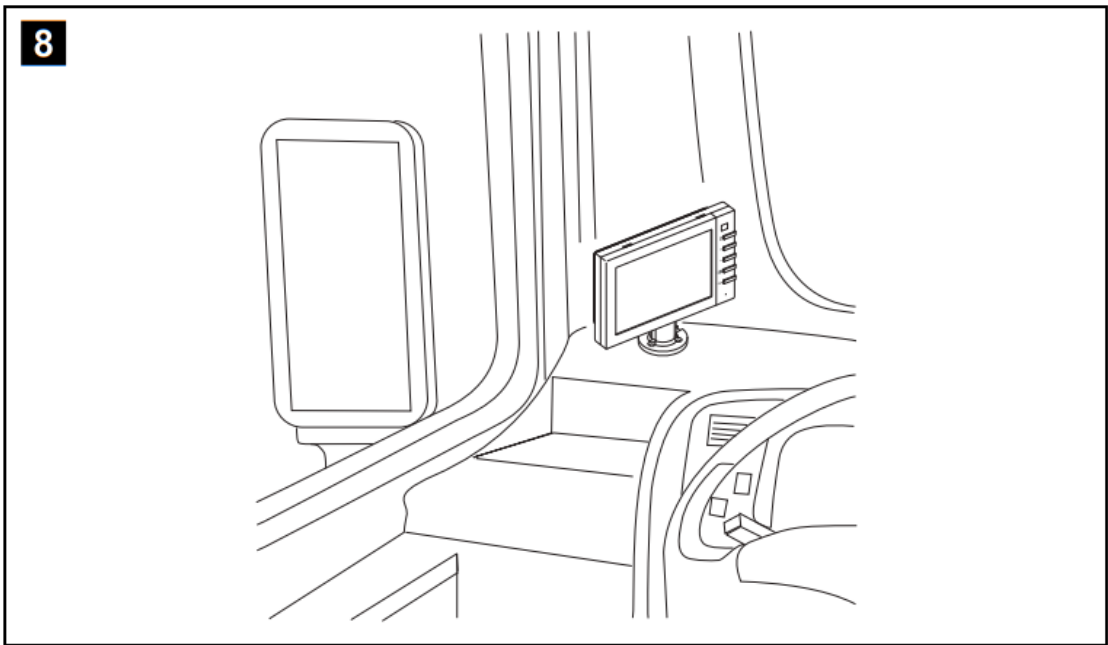
Contents

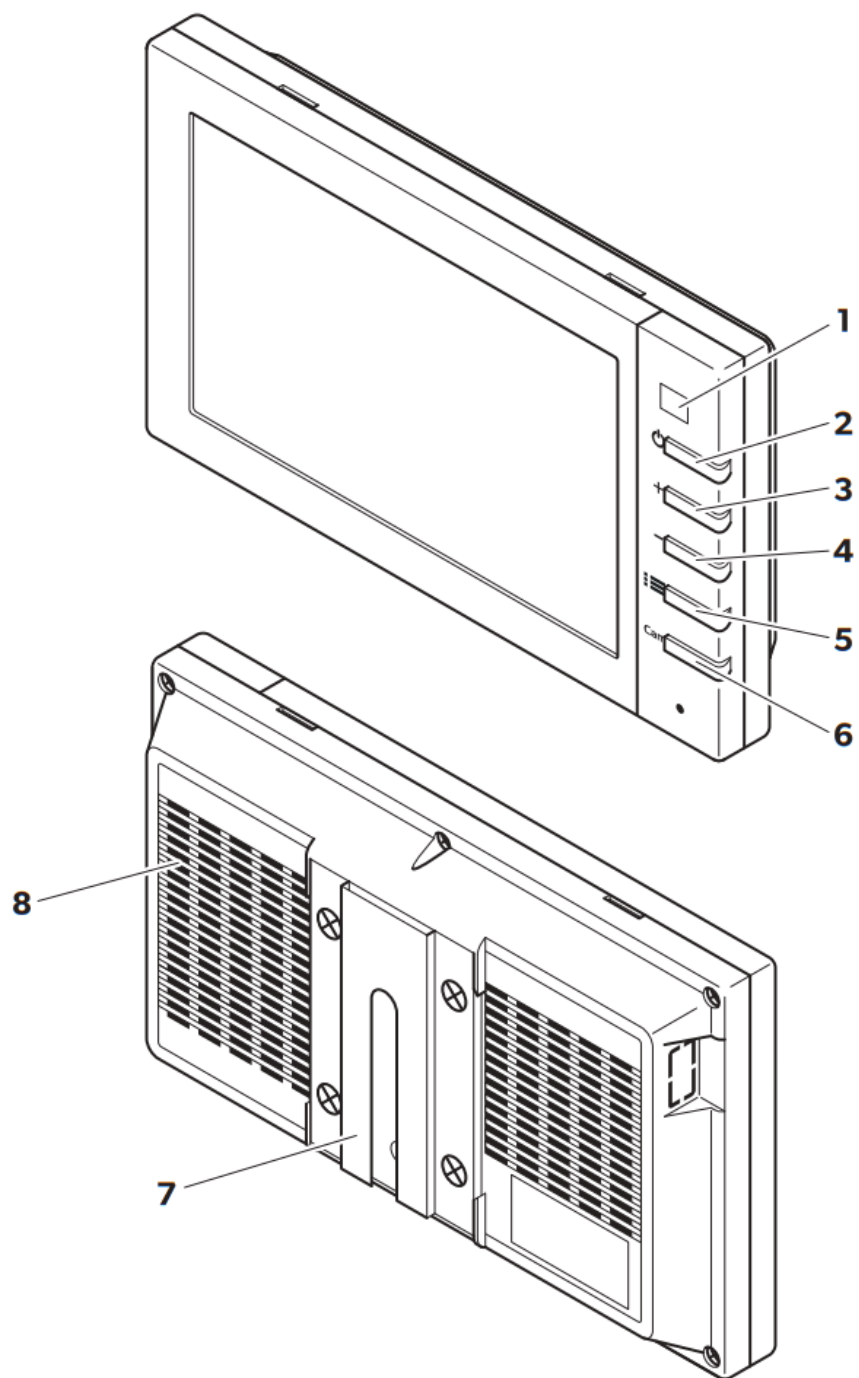
- [1 M55L AHD Power and Control Monitors](#)
- [2 Explanation of symbols](#)
- [3 Safety and installation instructions](#)
- [4 Scope of delivery](#)
- [5 Accessories](#)
- [6 Intended use](#)
- [7 Technical description](#)
- [8 Installing the LCD monitor](#)
- [9 Using the LCD monitor](#)
- [10 Cleaning and caring for the LCD monitor](#)
- [11 Warranty](#)
- [12 Disposal](#)
- [13 Technical data](#)
- [14 Documents / Resources](#)
 - [14.1 References](#)
- [15 Related Posts](#)

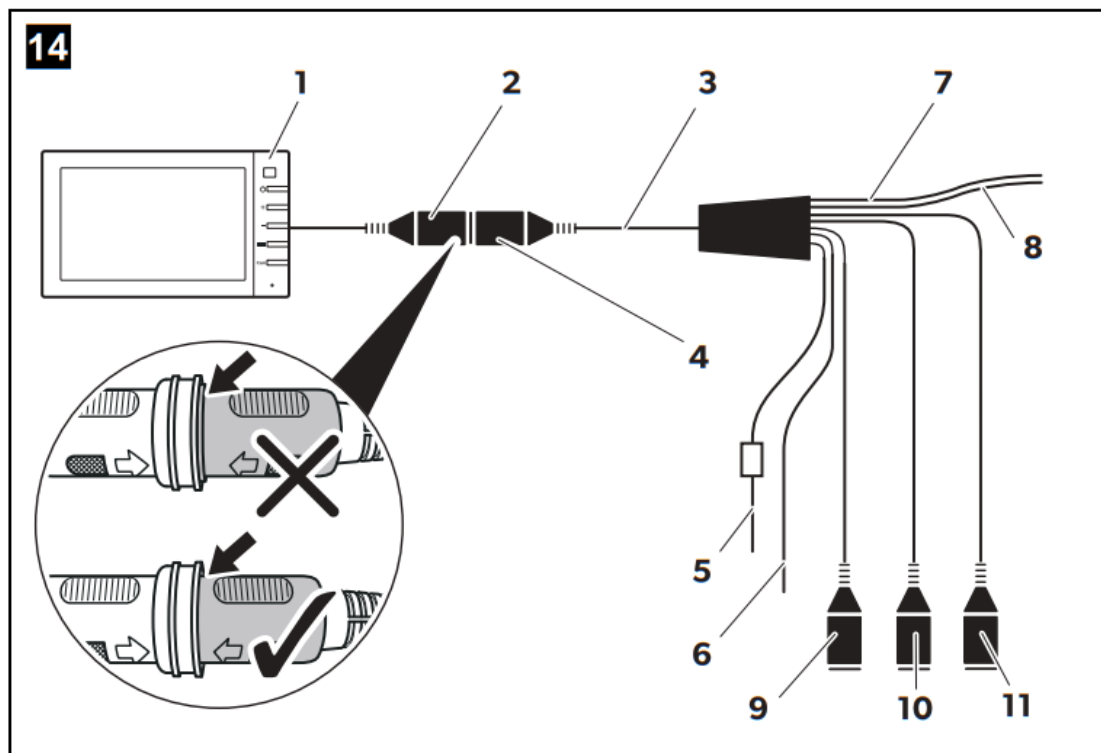
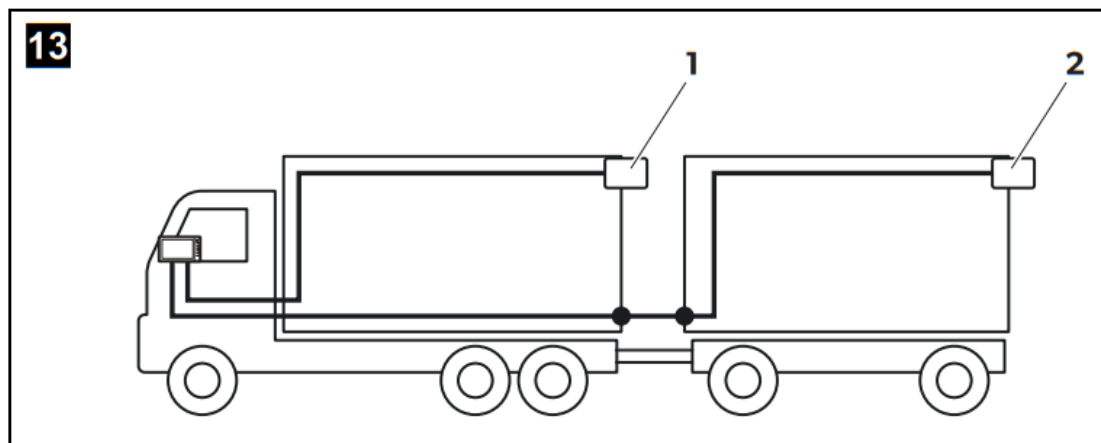
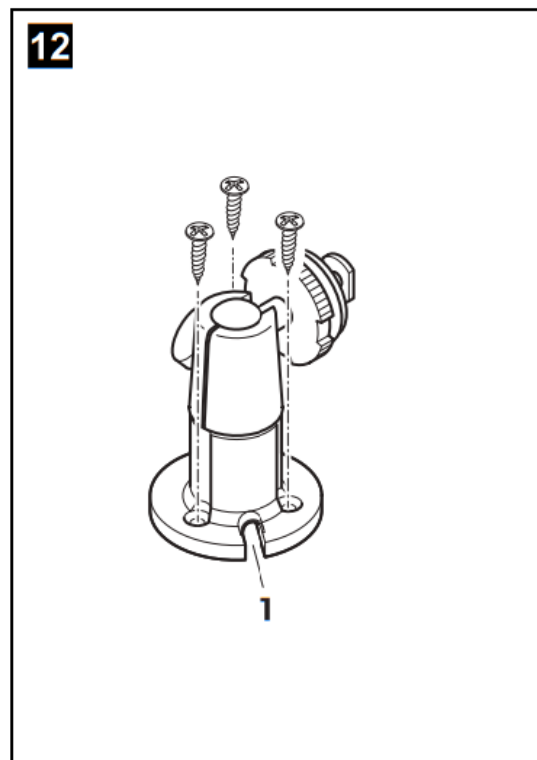
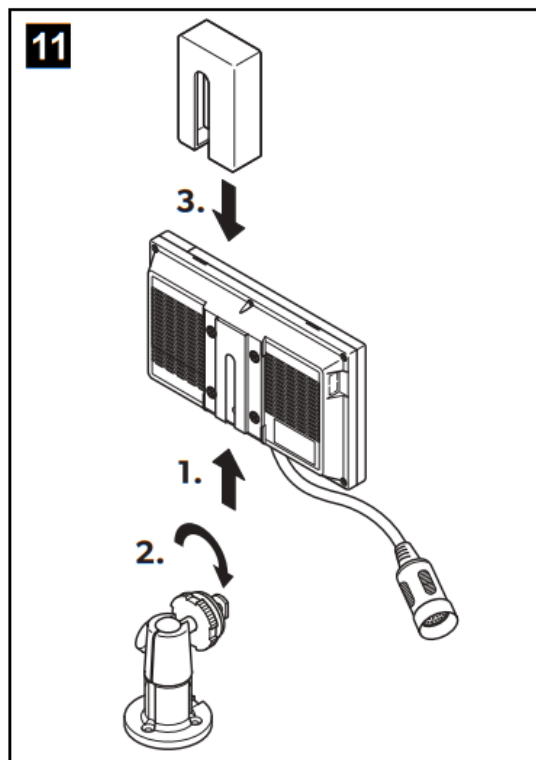
M55L AHD Power and Control Monitors

1**1****2****3****4****5****6****7****8****9****10****11****12****13****14**









Please read this instruction manual carefully before installation and first use, and store it in a safe place. If you pass on the product to another person, hand over this instruction manual along with it.

Explanation of symbols



CAUTION!

Safety instruction: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



NOTICE!

Indicates a situation that, if not avoided, can result in property damage.



NOTE

Supplementary information for operating the product.

Safety and installation instructions

Please observe the safety instructions and stipulations issued by the vehicle manufacturer and service workshops.

The manufacturer accepts no liability for damage in the following cases:

- Faulty assembly or connection
- Damage to the product resulting from mechanical influences and incorrect connection voltage
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in the operating manual



NOTICE! Beware of damage

- To prevent the risk of short circuits, always disconnect the negative terminal of the vehicle's electrical system before working on it.
If the vehicle has an additional battery, its negative terminal should also be disconnected.
- Inadequate supply cable connections could result in short circuits, causing:
 - Cable fires
 - The airbag being triggered
 - Damage to electronic control equipment
 - Electrical malfunctions (indicators, brake light, horn, ignition, lights)

Therefore, please observe the following instructions:

- When working on the following cables, only use insulated cable terminals, plugs and flat sockets:
 - 30 (direct supply from positive battery terminal)
 - 15 (connected positive terminal, behind the battery)
 - 31 (return cable from the battery, earth)
 - 58 (reversing light)Do not use porcelain wire connectors.
- Use a crimping tool (fig.1 12, page 2) to connect the cables.
- Screw the cable when connecting cable 31 (earth)
 - Screw on the cable using a cable terminal and serrated washer to one of the vehicle's earth bolts or
 - Screw the cable to the bodywork using a cable terminal and a self-tapping screw Make sure there is a good earth connection.

If you disconnect the negative terminal of the battery, all data stored in the volatile memories will be lost.

- The following data must be reset, depending on the vehicle equipment options:
 - Radio code
 - Vehicle clock
 - Timer
 - On-board computer
 - Seat position

You can find instructions for making these settings in the operating manual.

Observe the following installation instructions:



- Secure the monitor in such a way that it cannot become loose under any circumstances (sudden braking, accidents) and cause injuries to the occupants of the vehicle.
- Do not attach the monitor in the air bag deployment path, as this could cause injury if the airbags are triggered.

Observe the following instructions when working with electrical parts:

- When testing the voltage in electrical cables, only use a diode test lamp (fig.1 1, page 2) or a voltmeter (fig.1 2, page 2).
Test lamps with a bulb (fig.1 3, page 2) consume voltages which are too high and can damage the vehicle's electronic system.
- When routing the electrical connections, ensure that:
 - They are not kinked or twisted
 - They do not rub on edges
 - They are not laid in sharp-edged ducts without protection (fig.3, page 3).
- Insulate all connections.
- Secure the cables against mechanical wear by using cable binders or insulating tape, for example on existing cables.

Observe the following instructions when handling the LCD monitor:



- People (including children) whose physical, sensory or mental capacities or whose lack of experience or knowledge prevent them from using this product safely should not use it without the supervision or instruction of a responsible person.
- Do not open the monitor (fig.4, page 3).
- Do not submerge the monitor in water (fig.5, page 3); the monitor is not waterproof.
- The monitor must not impair your vision when driving (fig.8, page 4).
- Do not operate the monitor with wet hands.
- Do not operate the monitor if the housing has been damaged.

NOTICE!

- Connect it to the correct voltage.
- Do not use the monitor in areas which
 - Are subjected to direct sunlight,
 - Are subject to strong temperature fluctuations,
 - Have high levels of humidity,
 - Are poorly ventilated,
 - Are dusty or oily.
- Do not press against the LCD display.
- Do not drop the monitor.
- If you use the monitor in vehicles, the vehicle should be running during operation to prevent the vehicle battery from discharging.
- The picture quality can be impaired in the vicinity of electromagnetic fields.
For this reason do not mount the monitor near loudspeakers.

Scope of delivery

fig.9, page 4 No. in	Quantity	Description	Ref. no.	
			M55LAHD	M75LAHD
1	1	Monitor	9600012882	9600012898
2	1	Monitor bracket	9102200193	
3	1	Monitor bracket cover		
—	1	Connection cable	9102200195	
—	—	Fastening material		

Accessories

Available as accessories (not included in the scope of delivery):

Description	Ref. no.
Sun visor for M55L AHD	9102200200
Sun visor for M75L AHD	9102200201

Intended use

The LCD monitors PerfectView M55L AHD and M75L AHD are monitors which are primarily intended for use in vehicles. They can be used together with cameras (e.g. a reversing video system) or other video sources. The LCD monitors are designed for use in all vehicles. The LCD monitor are designed for leisure use.

Technical description

6.1 Function description

The LCD monitor can be connected to cameras (e.g. reversing video systems) or other video sources (e.g. DVD players). It is possible to switch back and forth between video sources.



The monitor features control cables which allow the cameras to be activated automatically.

It can operate up to three cameras.

It can be used with a RAM mount.

6.2 Control elements

The following control elements are located on the monitor:

No. in fig. 0, page 5	Description	Description
1		Sensor window for the dimmer function. The brightness of the display is automatically adapted to the ambient light.
2		Switches the monitor on and off. The button lights up red when the monitor is in standby. It lights up green when the monitor is switched on.
3	+	1. Increases the brightness. 2. Increases the value of the selected parameter if a menu is opened.
4	–	1. Reduces the brightness. 2. Reduces the value of the selected parameter if a menu is opened.
5		1. Switches the menu on. 2. Calls up the parameters for setting. The parameters are distributed over four screen pages in the following order: Page 1: Picture –Brightness –Contrast –Colour –Volume –Auto Dim Page 2: Options – Language: German, English, French, Italian, Dutch, Spanish, Portuguese, Russian – Camera 1/Camera 2/Camera 3: Normal or Mirrored – Sensitivity: Setting of the switching threshold for the night dimmer function – Trailer detection ON/OFF: Shortens the activation time in OFF mode Page 3: Default – Default: Default setting for all parameters
6	CAM	Switches from one camera to the next.
7		Monitor bracket
8		Loudspeaker

Installing the LCD monitor

7.1 Tools required (fig.1, page 2)

For installation and assembly you will need the following tools:

- Measuring ruler (4)

- Centre punch (5)
- Hammer (6)
- Drill head set (7)
- Drill (8)
- Screwdriver (9)

To establish and test the electrical connection, the following tools are required:

- Diode test lamp (1) or voltmeter (2)
- Insulating tape (10)
- Heat shrinking sleeve
- Hot air blower (11)
- Crimping tool (12)
- Soldering iron (optional) (13)
- Solder (optional) (14)
- Cable bushing sleeves (optional)

To fasten the cables you may require additional cable binders.

7.2 Installing the monitor



CAUTION! Beware of injury

Select the location of the monitor so that it cannot injure the passengers in the vehicle under any circumstances (e.g. sudden braking, road traffic accidents).

Observe the following installation instructions:

- Select an installation location that provides an unobstructed view of the monitor (fig.6 and fig.7, page 3).
- Never install the monitor in areas where your head could hit it or in the airbag deployment path.
This could cause injury if the airbag opens.
- The monitor must not impair your vision when driving (fig.8, page 4).
- The installation location should be flat.
- Check that there is sufficient space underneath the installation location to attach the washers and nuts.
- Check beforehand that there is sufficient space on the other side for the drill head to come out (fig.2, page 3).
- Bear in mind the weight of the monitor. Provide reinforcement if necessary (larger washers or plates).
- Make sure you can lay the connection cable to the monitor.

Choosing the installation location (fig.11, page 6)

- Place the monitor on the monitor bracket.
- Position the monitor and the attached monitor bracket provisionally.
- Mark the outlines of the corners of the support base on the dashboard.
- Take the monitor off the monitor bracket.

Screwing the monitor bracket onto the dashboard (fig.12, page 6)

- Hold the support base within the outlines marked beforehand.
- Fasten the monitor bracket with the self-tapping screws.

Fastening the monitor

- Set the monitor on the monitor bracket and secure it with the knurled nut (fig.11, page 6).
- Slide the cover over the monitor bracket on the monitor.

7.3 Connecting the monitor electrically

The circuit diagram for the LCD monitor can be found in fig.14, page 7:

N o.	Description
1	Monitor
2	20-pin socket
3	Monitor line
4	20-pin plug
5	12 – 24 V positive cable (red): connected to the positive pole of the ignition (connected positive, terminal 5) or the positive pole of the battery (terminal 30).
6	Earth cable (black): connected to the negative pole of the voltage source.
7	Cable (green): control input for video input CAM1, such as for connecting the reversing light
8	Cable (white): control input for video input CAM2, such as for the side camera
9	6-pin CAM1 socket (connection to video source 1)
10	6-pin CAM2 socket (connection to video source 2)
11	6-pin CAM3 socket (connection to video source 3), with video signal detection)



NOTICE!

Cables and connections that are not properly installed will cause malfunctions or damage to components. Correct installation of cables and connections ensures lasting and trouble-free operation of the retrofitted components.

Observe the following instructions when laying the connection cable:

- If possible, use original ducts for laying the cables, or other suitable options, such as ventilation grilles. If there are no existing ducts, you must drill a hole of \varnothing 22 mm. Check beforehand that there is sufficient space on the other side for the drill head to emerge (fig.2, page 3).
- Cover the holes with the feed through (fig.12 1, page 6) in the base of the monitor bracket.
- To prevent damage to the cables, when laying them ensure that there is always sufficient distance to vehicle components which can become hot (lights, heaters, ventilators etc.).
- When laying the cables (fig.3, page 3), make sure:
 - They are not kinked or twisted
 - They do not rub on edges
 - They are not laid in sharp-edged ducts without protection.

Connecting the monitor as a reversing video system (fig.14, page 7)

- Lay the connection cable for the monitor bracket on the dashboard.
 - Insert the plug of the monitor cable (2) into the socket (4) of the connection cable (3).
- Wait until you hear the plug snap in.



NOTICE! Beware of damage

Make sure the polarity is correct when connecting to a voltage source.

- Connect the red and black cables of the connection cable to a suitable voltage supply:

- Connect the red cable (5) to terminal 15 (ignition).
- Connect the black cable (6) to terminal 31 (earth).

- If the monitor is to be activated when reverse gear is selected, connect the green cable (7) to the positive cable of the reversing light.



NOTE

If voltage is present in the green cable (7), the reversing camera will be activated automatically. The reversing camera has priority.

- If the monitor is to be activated e.g. when the indicator is flashing, connect the following control cable to a positive cable of the indicator: –white cable (8)



NOTE

If voltage is present in this control cable, the video input CAM2 will be activated.

This control cable is used as a signal cable for the activation of a side camera when an indicator is flashing, for example.

- If necessary, connect the CAM1 socket (9) of the connection cable to the plug of the video source 1 (e.g. side camera).
- If necessary, connect the CAM2 socket (10) of the connection cable to the plug of video source 2 (e.g. camera).



NOTE

Observe the power consumption of the video system. The cameras are equipped with heaters. A maximum current of 1.5 A can flow (three cameras in heating mode).


Use a disconnecter switch for direct connection to the battery. This allows you to disconnect the video system from the battery easily if you are no longer using the vehicle.

Connection for a reversing camera

- If necessary, connect socket CAM3 (11) of the connection cable to the plug of the additional reversing camera.

Using the LCD monitor

8.1 Switching on the monitor


- If the monitor is switched off, press the  button (fig.10 2, page 5) to switch the monitor on.
- The button lights up green.
- ✓ The picture appears.

8.2 Switching off the monitor

- Press the P button (fig.10 2, page 5) to switch off the monitor.
- The button lights up red.
- ✓ The picture disappears.

8.3 Setting the monitor

To set the monitor to suit your requirements, proceed as follows (fig.10, page 5):

- Press the  button (5) to call up the required parameter.
- ✓ The parameters to be set appear in the following order:

Page 1: Picture

- Brightness: 0–100
- Contrast: 0–100
- Colour: 0–100
- Volume: 0–100
- Auto Dim On, Off

Page 2: Options

- Language: German, English, French, Italian, Dutch, Spanish, Portuguese, Russian
- Camera 1/Camera 2/Camera 3: Normal or Mirrored
- Sensitivity: 1, 2

Setting of the switching threshold for the night dimmer function to avoid glare.

In dimming mode, the switching threshold can be set at two levels.

- Trailer detection ON/OFF: Shortens the activation time in OFF mode

Page 3: Default

- Reset ("Default"): Default setting for all parameters
- Press the "+" button (3) or the "-" button (4) to set the required parameter.
- Press the "+" button (3) to increase the value of the selected parameter.
- Press the "-" button (4) to reduce the value of the selected parameter.

8.4 Setting the video source

Proceed as follows to set the video source (fig.10, page 5):

- If you would like to switch to a different video source, press the "CAM" button (6).
- ✓ The monitor changes the camera in the order "Camera 1 – Camera 2 – Camera 3".

8.5 Detecting the trailer camera

This function is required when using a trailer camera (fig.13, page 6) if the system is activated automatically via the reverse gear. To initialise the automatic detection switch off ignition once after setting. To initialise the automatic detection switch off ignition once.

- One camera connected (e.g. vehicle without a trailer): the camera connected to CAM1 (1) is activated.
- Two cameras connected (e.g. vehicle with a trailer): the camera connected to CAM3 (2) is activated (CAM1 is inactive; CAM1 can only be activated via the "CAM" button)

Cleaning and caring for the LCD monitor



NOTICE! Beware of damage

- Do not use sharp or hard objects for cleaning, as these may damage the monitor.
 - Remove the cable before cleaning the monitor to prevent short circuiting.
- Clean the monitor with a soft, damp cloth from time to time.

Warranty

The statutory warranty period applies. If the product is defective, please contact the manufacturer's branch in your country (see the back of the instruction manual for the addresses) or your retailer.

For repair and warranty processing, please send the following items:

- Defect components
- A copy of the receipt with purchasing date
- A reason for the claim or description of the fault


Disposal

- Place the packaging material in the appropriate recycling waste bins wherever possible.



If you wish to finally dispose of the product, ask your local recycling centre or specialist dealer for details about how to do this in accordance with the applicable disposal regulations.

Technical data

	M55L AHD	M75L AHD
Ref. no.:	9600012882	9600012898
Type:	Colour TFT LCD	
Display size:	5" (12.7 cm)	7" (17.8 cm)
Brightness:	approx. 350 cd/m ²	Approx. 800 cd/m ²
Display resolution:	384,000 pixels	> 600,000 pixels
Video standard:	1080p30 / 1080p25 / 720p30 / 720p25 / PAL / NTSC (automatic switching)	
Operating voltage:	12 – 30 V 	
Power:	Max. 10 W	
Operating temperature:	-20 °C to 70 °C	
Storage temperature:	-30 °C to 70 °C	
Humidity:	Max. 85 %	
Vibration resistance:	6 g	
Dimensions WxHx D:	146x 87x 26 mm	190 x110 x 26 mm
Weight:	350 g	400 g

Approvals

The device has E13 certification.

E13



YOUR LOCAL DEALER	YOUR LOCAL SUPPORT	YOUR LOCAL SALES OFFICE
dometic.com/dealer	dometic.com/contact	dometic.com/sales-offices

More information <https://www.caravansplus.com.au>

A complete list of Dometic companies, which comprise the Dometic Group, can be found in the public filings of:
DOMETIC GROUP AB Hemvarnsgatan 15 SE-17154 Solna Sweden

Documents / Resources

DOMETIC POWER & CONTROL MONITORS	
	
1. Introduction	1
2. Safety instructions	2
3. Installation	3
4. Operation	4
5. Troubleshooting	5
6. Maintenance	6
7. Accessories	7
8. Technical specifications	8
9. Warranty	9
10. Contact information	10

[DOMETIC M55L AHD Power and Control Monitors](#) [pdf] User Manual

M55L AHD Power and Control Monitors, M55L AHD, Power and Control Monitors, Control Monitors, Monitors

References

- [Default page](#)
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