

MARS Intercity Bus

Built on VOLVO B8R chassis



Driver Manual

01/2021



Dear customer,

We would like to congratulate you on purchasing a

Merkavim Mars body.

We wish you a pleasant journey.

To be familiar with the chassis, we recommend that you

read the operating instructions.

The instructions provide information about the body.

For further information contact are presentative

from Merkavim, who will be pleased to answer any

questions.



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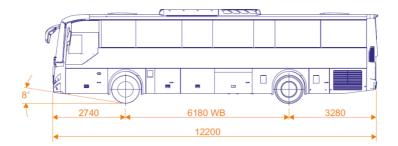
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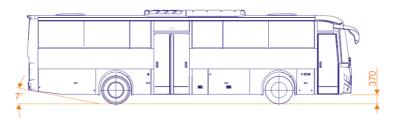
Technical data

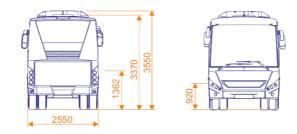


External dimensions

Vehicle length	12200 mm
Wheel base	6180 mm
Rear overhang	3280 mm
Front overhang	2740 mm
Vehicle width	2550 mm
Vehicle height	3550 mm

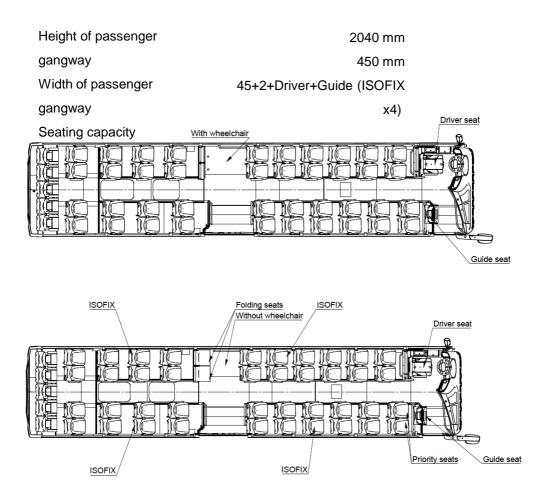








Internal dimensions and data





Identification plates





• Drive	Volvo Bus Corporation	
WB		
Product type		kg
4		kg
√ehicle type	1	kg
1997	2	kg
-	3	kg
•	4	kg

Identification plates

Vehicle identification plate

Chassis identification plate

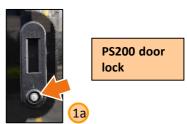
Entrance



Front entrance - door opening/closing external control



1) Door opening/closing handle with mechanical lock.(1a)



 Electric button for opening/closing the front door from pneumatic system.











3 Emergency door open button (button is active when a bus is in parking mode or speed is less than 3 km/h).

Entrance

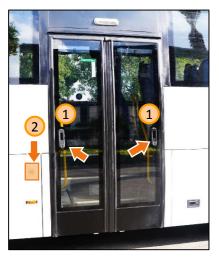


Rear entrance - door opening external control



 Door opening/closing handle (In case of emergency opening).





2 Emergency door open button (button is active when the bus is in parking mode or speed is less then 3 km/h).





2



Entrance



Front entrance - door opening/closing internal control







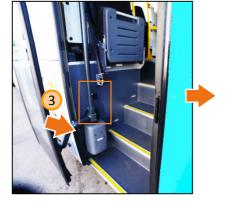
Main switch 1

Front door button

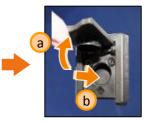


2

3 Pneumatic button for opening/closing the door (recommended for maintenance use).









Rear entrance - door opening/closing internal control









Front and rear entrance - internal emergency opening





1) Internal emergency front door opening button.

2 Internal emergency rear door opening button.





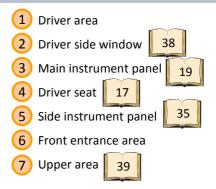
Emergency opening buttons are available when the bus is parked or speed is less then 3 km/h.

After pressing the buttons, doors must be opened manually outwards.



Driver area - general view













Driver seat





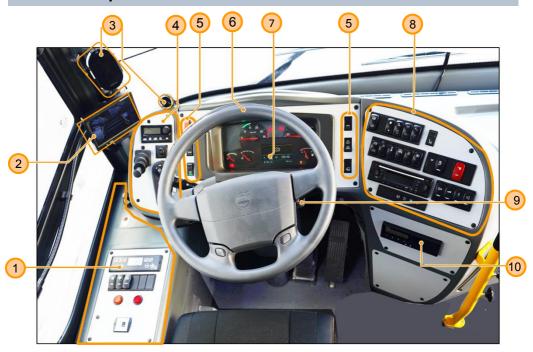
Driver seat







Instrument panel

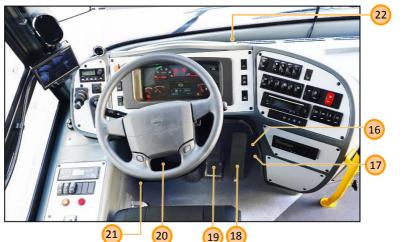




- Stop position
 Intermediate position
 Ignition position
- Start position (spring-return position)
- Left instrument panel 1 Monitor - reverse/rear door 2 3 Mobileye + Mobileye shield Front instrument panel 4 Central switches group 5 6 Steering wheel Gauges and indicators lights panel 7 Right instrument panel 8 Starter switch 9 Tachograph 10



Instrument panel







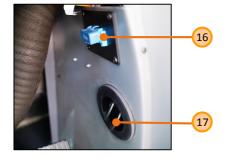
18



- Chassis systems diagnostic plug 16
- 17 Driver heater air jet
- 18 Accelerator pedal
- 19 Break pedal
- 20 Steering wheel adjustment pedal
- Foot step 21
- 22 Remote panel







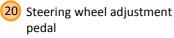
а

b



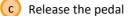
Instrument panel





Push adjustment pedal

Adjust steering wheel to comfortable position





Tilt adjustment







Height adjustment

20

4



Left switches group



88 (5) (3)

10001

- A/C EBERSPACHER control panel
- 2) Driver mirror selector
- 3 Light selector

1

4

1

2

3

Parking brake

Manually release parking brake



NO.	Switch Description	Prerequisites for operation
1	A/C EBERSPACHER control panel	Running engine
2	Driver mirror selector	
3	Light selector	Open main circuit breaker
4	Parking brake	Open main circuit breaker

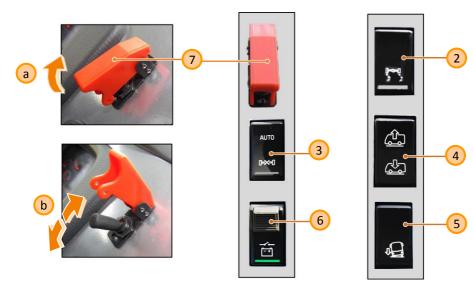


Gauges panel and central switches group





- 1) Gauges and indicator lights panel
- 2) Traction control switch
- 3 Difflock switch
- 4) Level up/down switch
- 5 Kneeling switch
- 6 Main switch
- 7) Emergency switch





Right switches group - control switches



NO.	Switch Description	Prerequisites for operation
1	Sun roll button	Open main circuit breaker
2	Driver fun button	Running engine
3	Ticket light/ button light	Open main circuit breaker
4	2 stage interior light button	Open main circuit breaker
5	Night/reading light button	Open main circuit breaker
6	Snow chains activation	Running engine
7	Additional reversing lamps	Gear in reverse



Right switches group - control switches



NO.	Switch Description	Prerequisites for operation
8	reverse buzzer cancelling	Gear in reverse
9	External public address switch	
10	External load speaker	Open main circuit breaker
11	Driver heater button	Running engine + driver heating activated
12	Stairs heating button	Running engine
13	Rear camera sprinkler button	Open main circuit breaker
14	Mirrors defroster button	Running engine



Right switches group - control switches



NO.	Switch Description	Prerequisites for operation
15	Wheelchair lift button	Open main circuit breaker + open rear door + parking brake activated
16	Parking brake button	Running engine
17	Stop request / disabled stop request indicator	Open main circuit breaker
18	Release doors from emergency	Open main circuit breaker
19	Emergency lighting system operation/reset	



Right switches group - CD/MP3/RADIO/MIC player





Driver zone (DRV)

Passenger zone (PSG)



- 1 Power
- 2 USB/SD card content play/pause
- 3 DRV source selector
- 4 LCD screen
- 5 PSG source selector
- 6 TA/AF functions control
- 7 Speakers control
- 8 PSG volume knob

- 9 USB slot
- 10 Phone operations (DRV zone only)
- 11 Memorized radio stations
- 12 Auto/manual tuning
- 13 Radio stations scan
- 14 SD card slot
- 15 Reset control
- 16) DRV volume knob



Right switches group - CD/MP3/RADIO/MIC player





- 1 Manual gear position lock
- 2 Drive gear position
- 3 Neutral gear position
- 4 Reverse gear position



Fire system test button





- To test depress the test button:
- Red lamp flashes red.
- Alarm siren sounds a repeating (continuous) acoustic signal.



Reversing and rear door cameras system



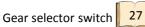


Reversing and rear door cameras system



- 1 Monitor - reverse/rear door
- 2 Rear view camera
- 3 Water sprinkler

4





Clear the rear view camera with the water sprinkler by pressing the button





When the main switch is opened and the gear shift

is in reverse, the monitor switches to rear view camera (2) automatically.









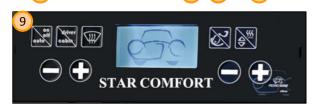




- 1 USB power socket
- 2) Glove compartment
- 3) Driver microphone
- 4) 220 volt converter
- 5 Front door button
- 6 Preheater button
- 7) Stop request cancelling
- 8) Fire system test button
- Blocking brake valve
- 10 Control panel bus Star Comfort heating system
- (11) Passenger heating blowers control button
- (12) Rear door button

(13) power socket





ON position OFF position





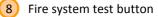




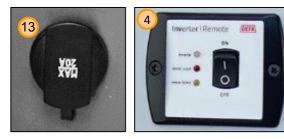




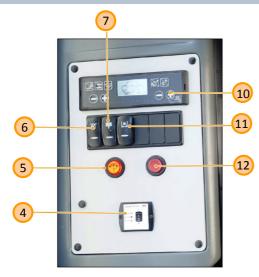
4) 230 volt converter



(13) power socket









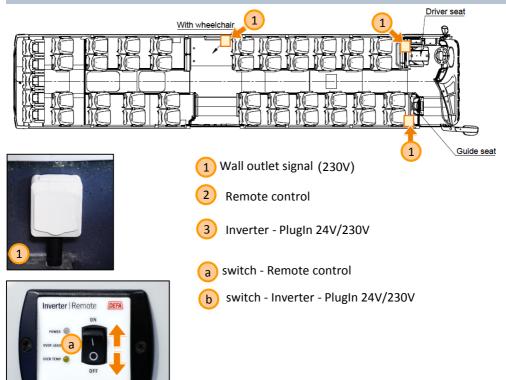
NO.	Switch Description	Prerequisites for operation
4	Remote control	Running engine +Switches in ON mode
5	Front door button	Open main circuit breaker + battery door closed
6	Preheater button	Running engine + heat activation
7	Canceling a passenger bell	Bell switch is pressed closed doors
10	Driver/passenger heating control	Running engine engine in operational temperature
11	Passenger heating blowers control button	Running engine/passenger heating activated
12	Rear door button	Open main circuit breaker + trunk door before door 2 is closed + lift is stowed

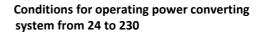






230V system





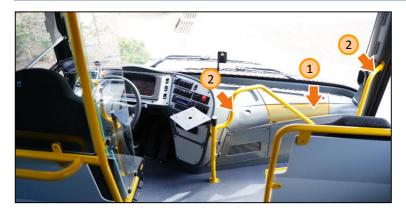


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- Turned on engine
- Converter control panel switch ON (a)
- Power converter switch ON (b)



Driver luggage compartment



1) Driver compartment with lock

Grip handles of front entrance

2

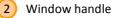




Driver side window



1 Driver sliding window













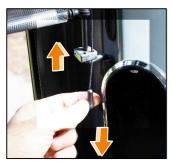
Driver area



Driver side window



- 1 Driver sliding window
- 2 Window handle
- 3 Driver sliding window
- 4 Driver side curtain handle
- 5 Driver side curtain release





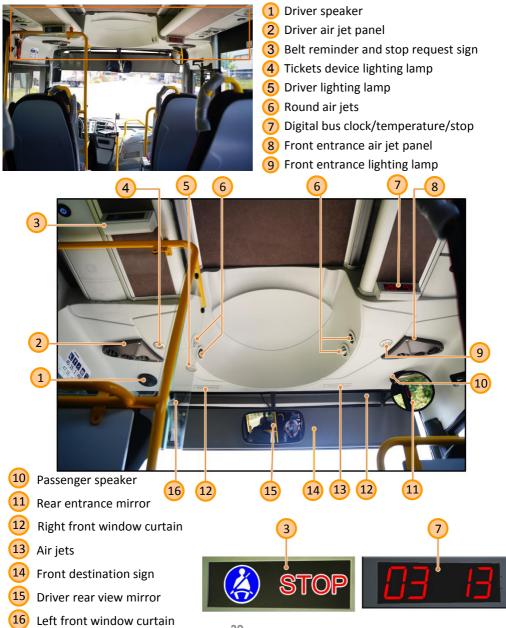








Upper area



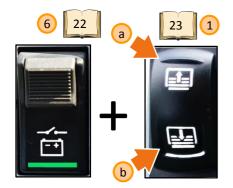


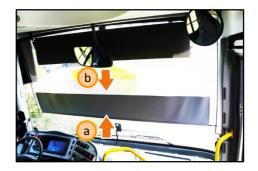
Front window curtains



- 1 Front window curtain
- 2 Main switch

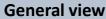


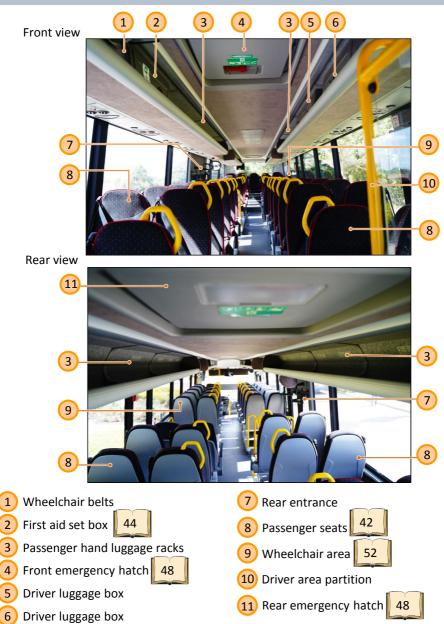




Passenger compartment









Passenger seats



- 1 Passenger seats
- Passenger folding seats 43 2
- Seat armrest 3









4









Passenger seats



- 1 Passenger folding seats
- 2) Guide seat

3

Guide microphone socket



















Hand luggage racks and accessories









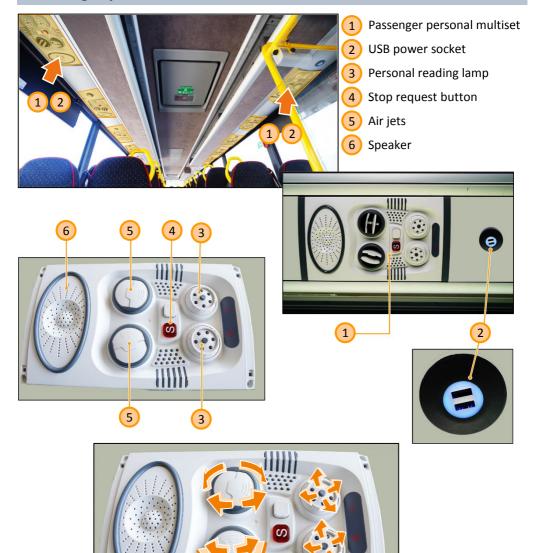








Passenger personal multiset



10



Hand luggage racks and accessories



6 Passenger hand luggage racks





Roof accessories



- 1) Front roof emergency hatch
- 2) Passenger compartment lighting lamps
- 3 A/C return air opening

4

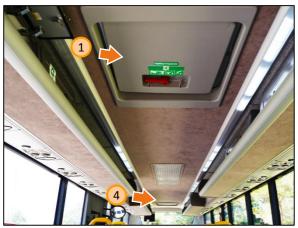
Rear roof emergency hatch







Roof emergency hatch - ventilation state



- Front roof emergency hatch
- Rear roof emergency hatch
- a Emergency hatch closed position

1



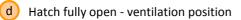


Front direction open position





Rear direction open position







Roof emergency hatch - emergency state - inside actuation



- 1 Emergency hatch handle cover
- 2) Emergency hatch handle





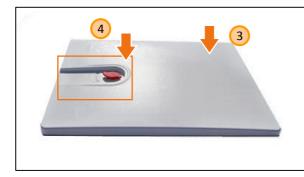
- a) Release the emergency handle cover
- c) Turn handle towards arrow
- b) Raise the emergency hatch up



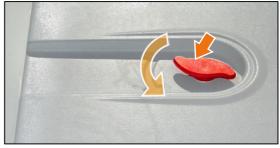




Roof emergency hatch - emergency state - external actuation

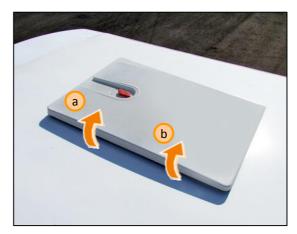


- 3 Emergency hatch
- 4 Emergency hatch external handle



Within action :

- a) Turn external handle towards arrow
- b Raise the emergency hatch up



2

3 4

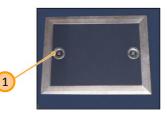


Floor service covers

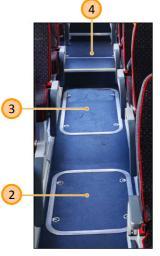




- 1) Front axle service hatch cover
- 2) Rear axle service hatch cover
- 3) Gear service hatch cover
- 4) Engine service hatch cover
- 5 Tightening screw









Wheelchair area

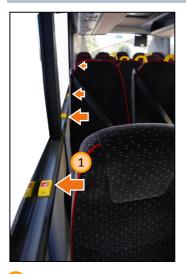






1

Stop request system





- 1) Stop request buttons on the side windows
- Multiple-seat stop button above each pair of passenger seats





Stop request system





Stop request system





After activating a disable stop request by

Buttons:

 A digital signal stop and a gong rings once in the driver area



b An S control lamp and a disabled control lamp are light on the keyboard

C A red light turns on over the back door



Closed doors

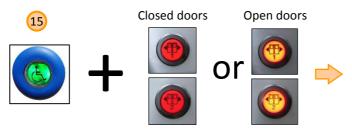
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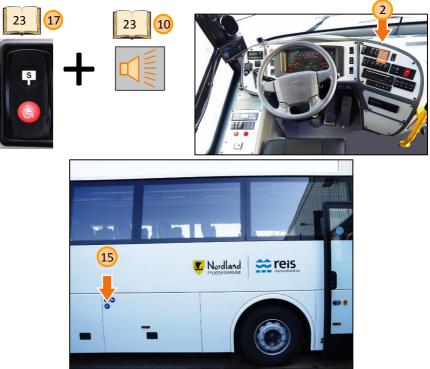
Stop request system



When the disabled external button is pushed, light temporarily switched to red.

After activating a disabled external button:

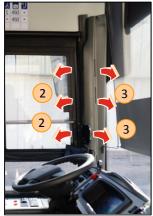
A disabled control lamp on the keyboard lights up and the gong rings once in the driver area.







- 3 2 4 7 Front window direction air jets 1) 2 Front window direction air jets 3 Front window direction air jets 6 4 Front entrance side air jets 5) Driver side window air jets 6 Driver air jet 7 Driver side jet
 - 8 Driver side floor heater







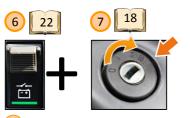




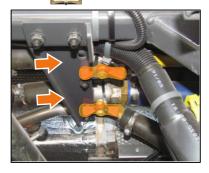


Order of starting driver area heating:

b Start the engine



a Heating system water valves must be open 106



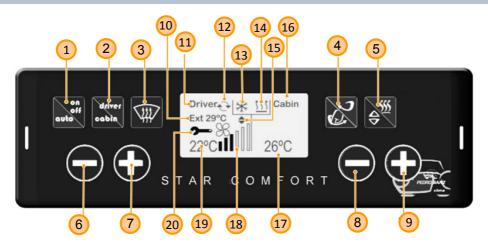
c) Start heating system Star comfort in the driver area by Control panel For the full briefing, see details in Technical Information Start Comfort.



П

The 11 key on the keyboard 33 can set The driver heater's blower speed.

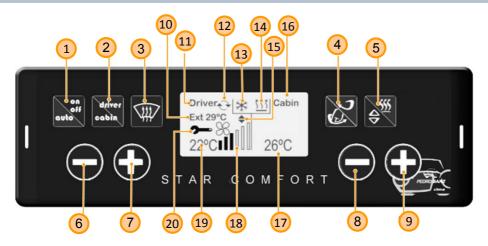




Control Panel buttons:

- 1) On/Off switching (pressed more then 2 sec) or switching off Automatic mode.
- 2) Active zone selection: driver/ cabin (passengers).
- 3) Fast windscreen demisting operation.
- 4) Outside/inside air entrance.
- 5 Preheater switching on/off (pressed more 2 sec) or changing an air distribution flow (less then 2 sec).
- 6 Decrease fan speed of the defroster/temperature in passenger zone.
- 7 Increase fan speed of the defroster/ temperature in passenger zone.
- 8) Decrease temperature in driver zone.
- 9) Increase temperature in driver zone.





Control Panel screen indicators:

- **10** Outside temperature/ automatic operation on.
- 11) Active driver zone.
- **12** Active air recirculation function.
- (13) Front A/C unit is ready to be switched on.
- (14) Preheater is connected.
- (15) Air flow distribution.
- (16) Active cabin (passenger) zone
- (17) Inside temperature in passenger zone.
- (18) Defroster fans speed.
- (19) Inside temperature in driver zone.
- 20) System error.



Passenger compartment heating (Sans clima)



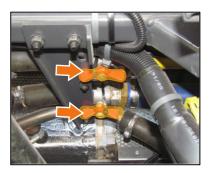
- Passenger compartment heaters
- Wheelchair area heater 2
- 230 Wall outlet single 3



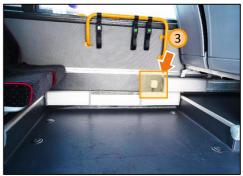
Order of starting passenger compartment heating.

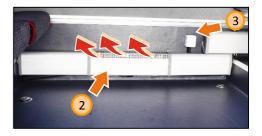
Heating system water valves must а be open 106



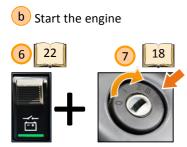












c Start heating system Star Comfort in the drive area from Control panel. For the full details, see Technical Information Star comfort.





The (11) key on the keyboard Set heater blower speed.





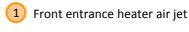


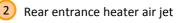


Passenger compartment heating (Sans clima)

Heating entrances area







When the button (12) is activated under conditions **a**, **b**, **c** 59

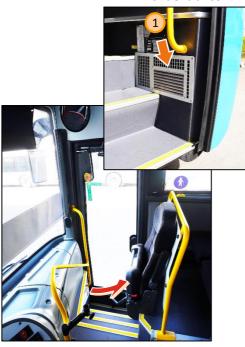
heaters 1 and 2 will be activated.

When any of the doors is opened the speed of the heater blower

is increased.

Front entrance

Rear entrance







Passenger compartment heating (AC system heater)

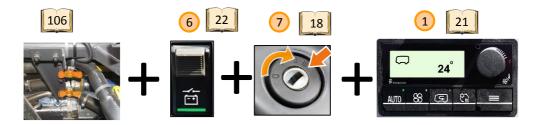




Hand luggage air jets



Order of starting the heating in passenger compartment from air conditioner.





Passenger compartment heating (AC system heater)



- 1 Description knob
- 2 Display
- 3 Auto function key
- 4 Fan strength key
- 5 Function key SMOG
- 6 Function key REHEAT/DEFROST
- 7 Menu key



Driver area heating (AC system heater)





Operating and increasing speeds (speed 6-10 Blower Control Lamp) Shutdown (long press) and lowering speeds (speed 1-5 Blower Control Lamp)



Passenger compartment heating (AC system heater)



1

Hand luggage air jets



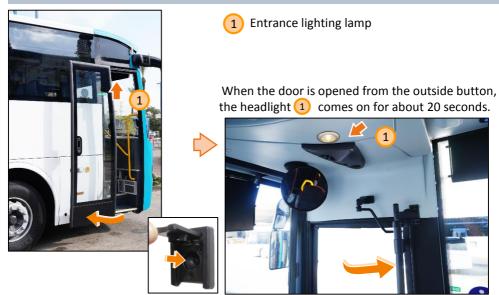
Order of starting air conditioning in passenger compartment



Interior lighting



Driver area and front entrance lighting







Level 1 interior light can be switched on without operation of the main switch.





Driver area and front entrance lighting

Driver area lighting





Ticket device lighting







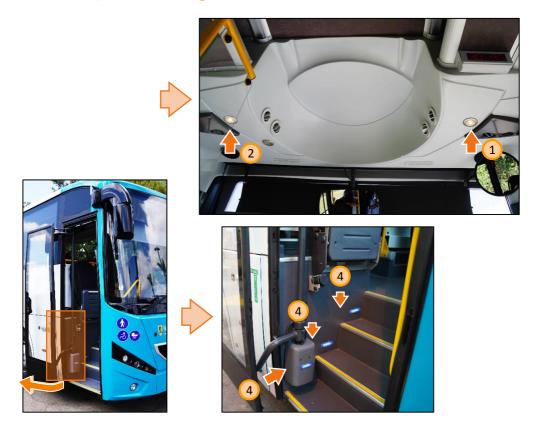
1

Driver area and front entrance lighting

Driver area lighting



When parking light is turned on and front door open, driver headlight, entry light (2) and stair light (4) are turned on.





Passenger compartment - floor and rear entrance lighting

Floor and rear entrance lighting









Transition light

6 Rear door lighting (closed door)

7 Rear door stairs lighting (when rear door is closed)













Passenger compartment - floor and rear entrance lighting

33

Floor and rear entrance lighting





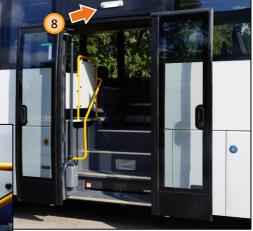


When a parking light is turned on and a rear door opens, the rear entrance Light, 6 stairs light 7 and exterior headlight 8 turn on above the door.











Passenger compartment - roof lighting

Passenger compartment lighting 1



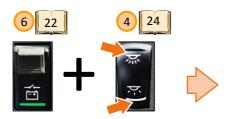


Passenger compartment lighting 2





Passenger compartment full lighting







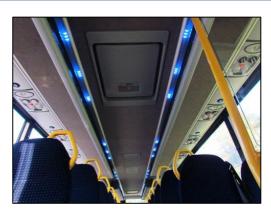
Passenger compartment - roof lighting

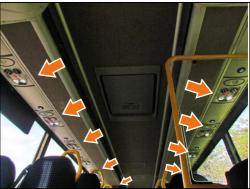
Passenger compartment night lighting



Passenger compartment reading light







Light up the lamp knob



Light up the lamp knob











Passenger compartment - roof lighting

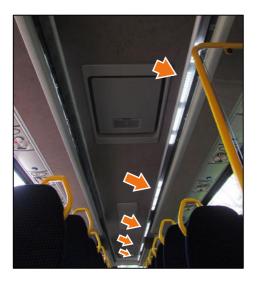








Emergency lighting (indoor and outdoor) is light by tl 19 or when the door (doors) are opened by emergency key. Lighting is turned off by the RESET button 19 or automatically after 30 minutes.







Wheelchair lift operating - lifting



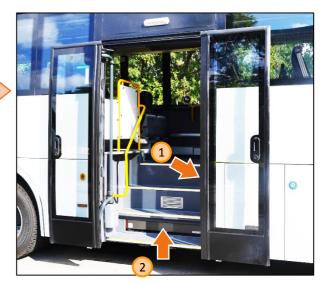


1





- 2 Wheelchair lift platform
- 3 Up button
- 4 Down button
- 5 Remote control socket
- 6 Remote control plug



3

4













Wheelchair lift operating - lifting



a) Press the Up button to fully extend the platform outside the cassette.



Lift the bridge platform



d

Lift the rails to the upright position









Press the Down button to fully lower the platform to the ground





Wheelchair lift operating - lifting



e Press the Up button and hold it pressed. At the highest position, the bridge of the platform automatically rises.







Put the wheelchair in the designated place and secure it.

f

Wheelchair lift



Wheelchair lift operating - folding

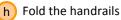


Т

g Press the Down button









Fold the bridge platform



Fress the Down button until the platform stops automatically at the cassette level



k Press the Down button to fully retract

the platform to the cassette





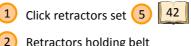


Wheelchair lift



Wheelchair fixing







Retractors holding belt



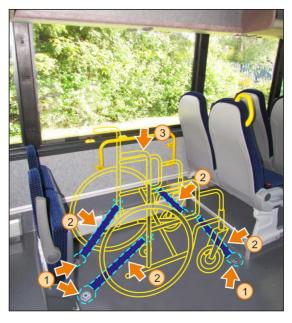


Retractors dismantling





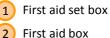






First aid kit and safety equipment





- First aid box
- Fire extinguisher

First aid set





3

3 Fire extinguisher







First aid kit and safety equipment









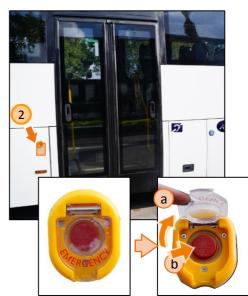


Emergency doors opening

External actuation



After air exits, the doors must be manually pulled out.





After an air exits, the doors must be manually pushed out.





Front and engine service compartments

Front service compartment







Engine service compartment



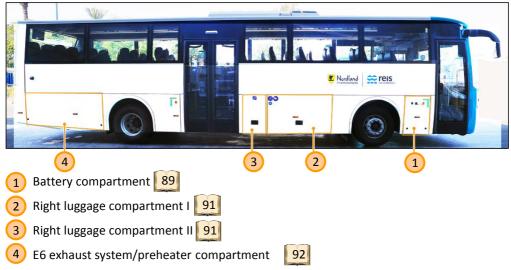




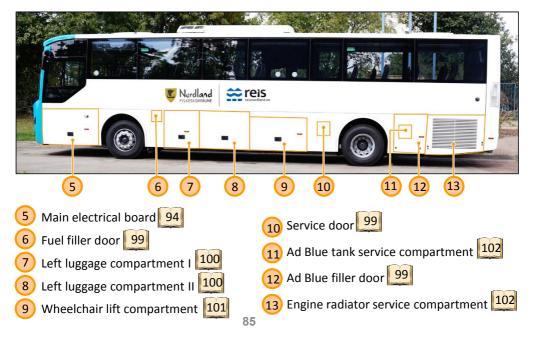


Side service compartments

Right side service compartments



Left side service compartments





Side service compartments



J

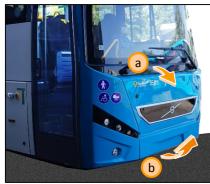
Right

- Front door locking mechanism
- Manual safety stopper
- Catcher

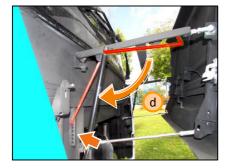
1

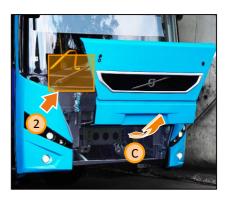
2

Right lock rotates clockwise left lock rotates counterclockwise

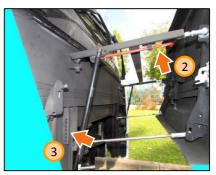


- a Release the door lock
 b Release the door spring stoppers
 c Lifting door up
- d Position safety stopper, as illustrated



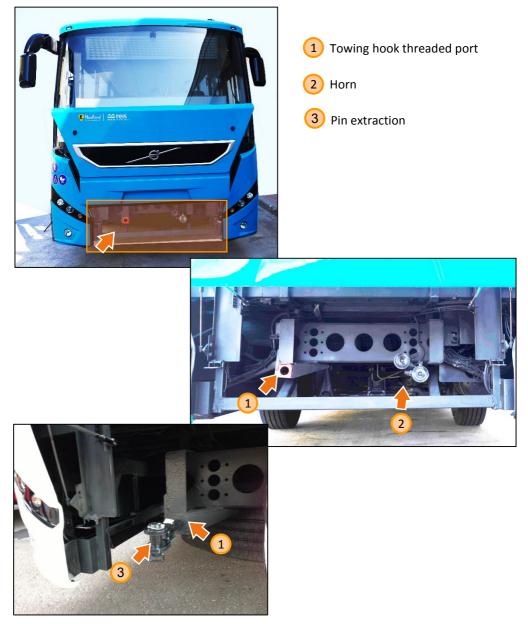


Lef





Front service compartment - accessories





Battery compartment





- Battery compartment door
- Locking/Unlocking door
- Service light with switch
- Door safety switch (when the in open – parking brake is on)





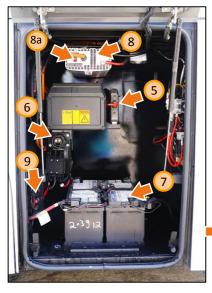






Battery compartment

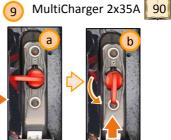




- Main manual switch
- 6 Nato socket connecting an external source for charging the batteries
- 7 Batteries

5

- 8 Inverter - PlugIn 24V/230V 1500W
- 8a) Power Converter Power Button



Detached mode

Active mode





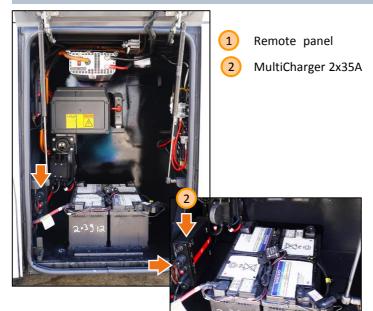


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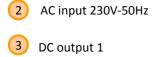
b



Battery compartment – MultiCharger 2x35A

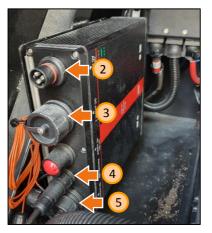






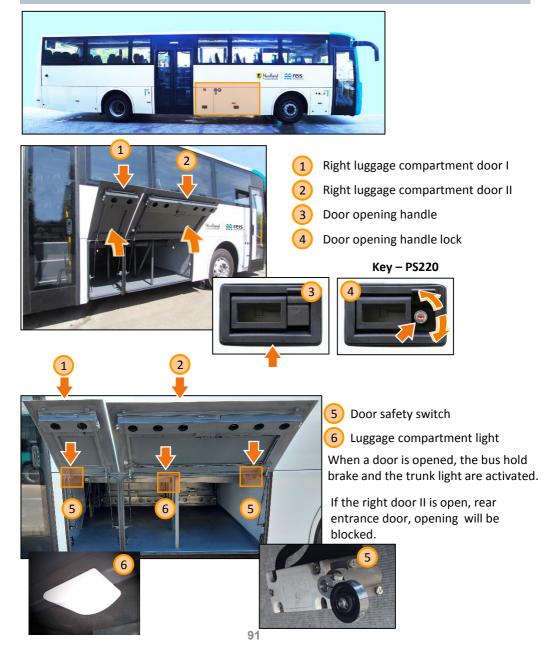
4 Control cable

5 DC output 2





Right luggage compartment





2

E6 exhaust system / Preheater compartment



- 1) Exhaust system/preheater compartment door
- 2 Door lock

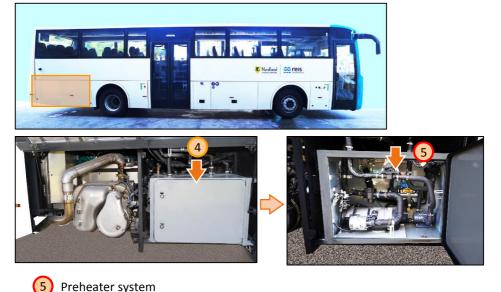
3

- E6 exhaust system
- 4) Preheater box





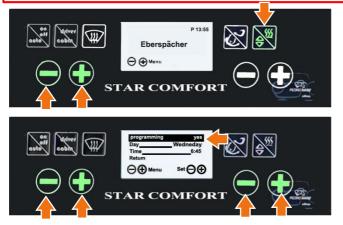
E6 exhaust system / Preheater compartment



Preheater system

The preheater can be activated manually by the Star Comfort control panel or operated automatically

(see Technical Information Star Comfort).



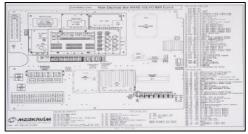


8

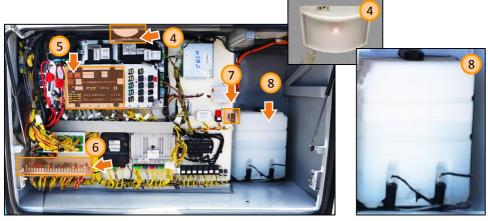
Main electrical board compartment



- 1 Door handle
- 2 Door handle lock
- 3 Main electrical board scheme
- 4 Service lamp
- 5 Merkavim electrical fuse board
- 6 Door brake Cancel SW
- 7 Chassis (VOLVO) electrical fuse board
- 8 Washing water tank with pumps



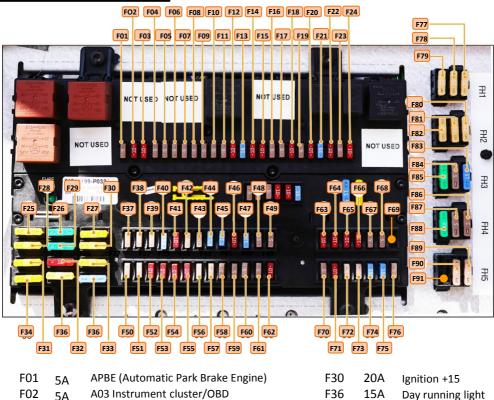
3







Fuses in VOLVO circuit board



F38

F39

F43

F46

F48

F49

F51

F52

5A

5A

5A

10A

5A

5A

5A

10A

A27 LCM

A22 FMS

Horn

A21 EBS

A16 ECS

Option

A36 BBM

Fuel cut off

F06 5A Alternator/Engine components

- F07 5A Control unit, VECU
- F08 5A Instrument cluster/Tachograph/OBD
- F10 5A Steering wheel
- F13 15A Windscreen waper/Wiper pump
- F14 10A Option
- F23 5A A16 ECS
- F28 20A A21 EBS





Fuses in VOLVO circuit board



F77

FO2 F04 F06 F08 F10 F12 F14 F16 F18 F20 F22 F24

	F01	F03	F05	F07	F09	F11	F13	F15	F17	F19	F21	F23			F78	
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F25 F26 F27	F37	FB			F43	F45	F47		10.	150	F63	T			86	
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	F34	F36	F36 F50 F52 F54 F56 F58 F	60 F62	(F70 F72 F74 F76
	F	-31 F3	2 F33 F51 F53 F55 F57 F59	F61		F71 F73 F75
١	F53	10A	Gearbox, TECU, ZF Ecolife	F78	25A	A27 LCM
I	F54	10A	A22 FMS	F79	25A	A27 LCM
I	F55	5A	A191 BIO bus I/O ECU	F80	25A	A27 LCM
I	F57	5A	Gearbox, TECU, ZF Ecolife	F81	25A	A27 LCM
I	F59	5A	Dashboard switch feed	F82	25A	A27 LCM
I	F60	5A	Option	F86	5A	A03 Instrument cluster/OBD
I	F62	10A	A174 ACM	F87	30A	Main switch
I	F63	10A	195 BIO bus I/O ECU	F89	5A	Parking lamps left
I	F68	5A	Ignition key	F90	5A	Parking lamps right
- 1	F77	25A	A27 LCM (Light Control Module)			





- 6 Merkavim body builder fuses
- 7 Door brake cancel switch
 - Fuses in Merkavim circuit board





- F732 25A Preheater & Valeo & Water pump
- F733 25A Preheater & Valeo & Water pump
- F192 20A Frontbox blower
- F292 10A Water pump
- F193 2A Heating control
- F195 3A Air conditioning control
- F95 10A Radio & Clock
- F370 3A Rear lights indicator adapter
- F310 6A Service lighting
- F30 3A ActiMUX MASTER25(A100)
- F31 5A ActiMUX MASTER25(A100)

- F32 15A ActiMUX POWER66 (A102)
- F34 20A ActiMUX POWER33 AirCanal(A101)
- F35 6A ActiMUX POWER33 AirCanal(A101)
- F36 8A ActiMUX POWER33 Luggage (A103)
- F37 15A ActiMUX POWER33 Luggage (A103)
- F38 3A Actia Switch Pack
- F178 10A Horn

Reserve

- F101 5A Door's pressure sensors
- F102 5A Timer emergency circuit
- F103 10A Emergency circuit



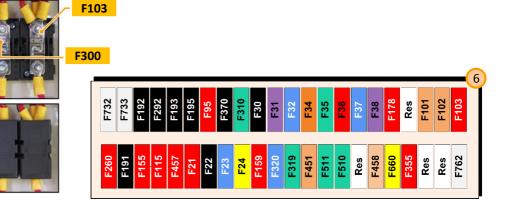


6 Merkavim body builder fuses

7 Door brake cancel switch

Fuses in MERKAVIM circuit board





- F260 10A Driver seat heating
- F191 2A Heating control
- F155 3A Air conditioning control
- F115 10A 24V/12V cameras converter
- F457 10A Mobitec destination signs
- F21 10A ActiMUX POWER66 (A102)
- F22 10A ActiMUX POWER66 (A102)
- F23 15A ActiMUX POWER33 AirCanal(A101)
- F24 20A ActiMUX POWER33 Luggage (A103)
- F159 10A Radio & Clock
- F320 15A Lighter socket

- F319 6A Electrical mirrors
- F451 5A Fire extinguishing FOGMAKER
- F511 6A USB Doors side
- F510 6A USB Driver side

Reserve

- F458 5A 29" screen
- F660 20A 24/230V Inverter
- F355 10A Ticketing machine

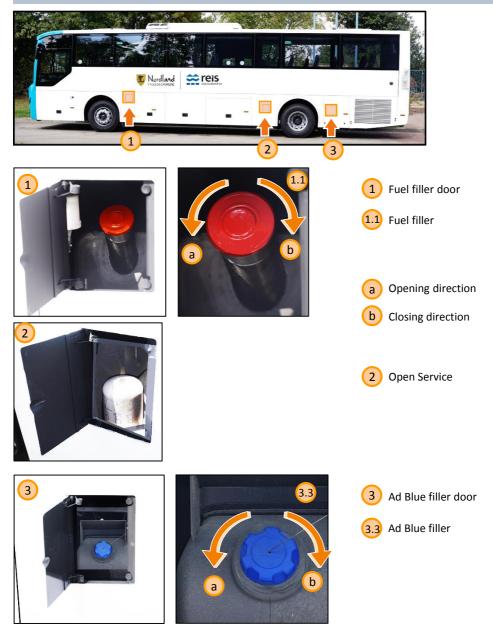
Reserve

Reserve

F762 25A Pre-heater fuel filter



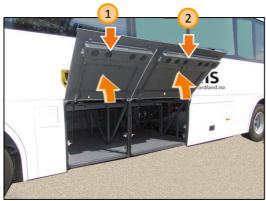
Filler doors





Filler doors





6

- 1) Left luggage compartment door I
- 2) Left luggage compartment door II
- 3) Door opening handle
- 4) Door opening handle lock



5 Door safety switch

6

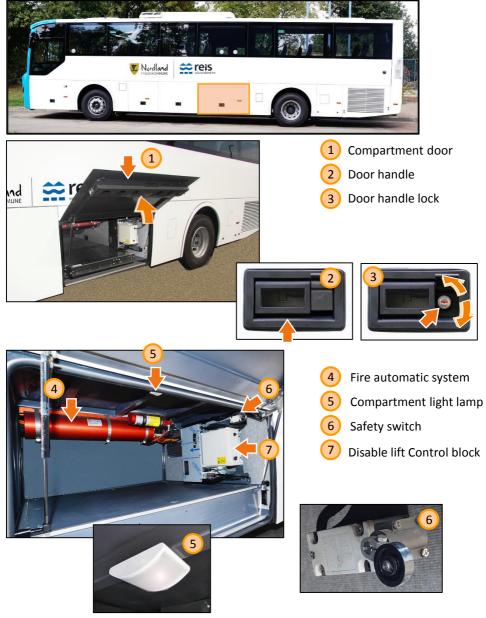
Luggage compartment light (activated with luggage door opening)







Wheelchair cassette/Fire automatic system compartment



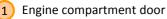


Wheelchair cassette/Fire automatic system compartment









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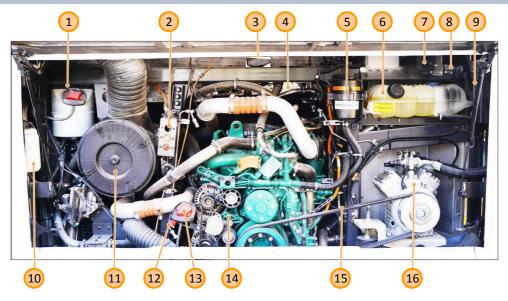


Place manual safety stopper after opening engine compartment door









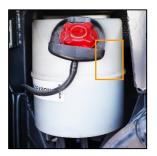
9

- 1 Hydraulic fan motor fluid tank
- 2 Engine start rear control panel
- 3 Service lamp
- 4) Manual heating system water valves
- 5) Steering hydraulic system tank
- 6 Expansion water tank of engine coolant system
- 7) Revers buzzer
- 8 Door safety switch

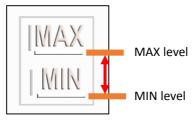
- Manual safety stopper
- 10 Rear camera cleaner water tank with pump
- (11) Engine air filter
- (12) Engine oil level dipstick
- (13) Engine oil filler
- 14 Engine
- A/C compressor belt
- 16 A/C compressor







1 Hydraulic fan motor fluid tank





2 Engine start rear control panel

Start button

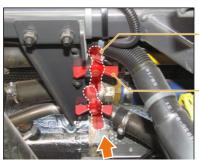
Selector breaker



3 Service lamp







4 Manual heating system water valves Open valve position

Close valve position



5 Steering hydraulic system tank



6

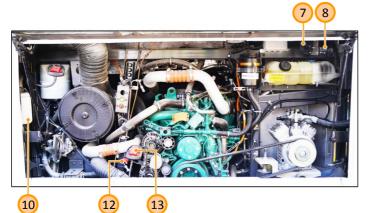


Expansion coolant tank of engine coolant system

MAX coolant level

MIN coolant level









Reverse buzzer







10

Rear camera water tank



Engine oil level dipstick



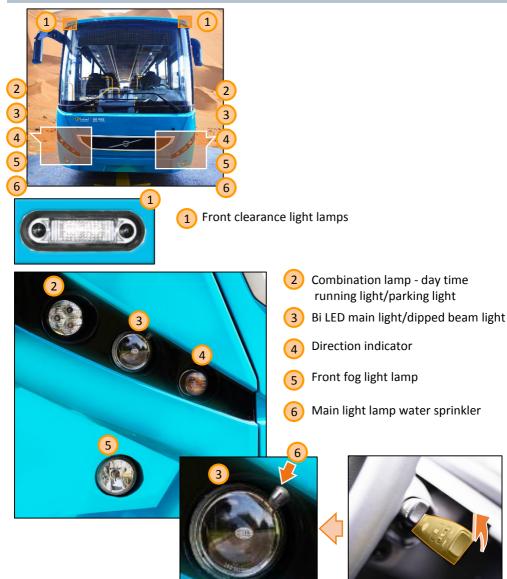
Engine oil filler







Front light





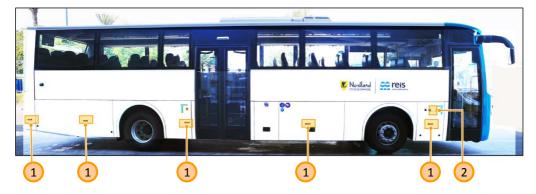
Back light



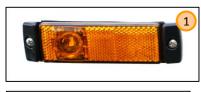
External light



Side light









- Side position light with reflector
- 2 Side direction indicator



Side cameras



Left SerDes Camera Kit S+2







1

Right SerDes Camera S+2



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> > phone: +972-4-6176064 Fax: +972-4-6176064

www.merkavim.com