



# MARQUARDT HH4 NFC Door Handle User Manual

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**MARQUARDT HH4 NFC Door Handle**



## Product Information

### Specifications

- **Product:** NFC Door Handle
- **Model:** HH4
- **FCC ID:** IYZHH4
- **IC:** 2701A-HH4

## Product Usage Instructions

### Facility

1. Before installation, ensure that you have read and understood the user manual.
2. Make sure the NFC Door Handle is compatible with your door. Consult a professional if needed.
3. Remove any existing door handle or lock from the door.
4. Align the NFC Door Handle with the door and mark the positions for screw holes.
5. Drill pilot holes for the screws.
6. Attach the NFC Door Handle to the door using the provided screws.
7. Test the functionality of the NFC Door Handle by opening and closing the door.

### NFC Pairing

1. Ensure that your mobile device supports NFC technology.
2. Enable NFC on your mobile device from the settings menu.
3. Hold your mobile device close to the NFC Door Handle.
4. Follow the instructions on your mobile device to complete the pairing process.
5. Once paired, you can use your mobile device to unlock and lock the door using the NFC Door Handle.

### Battery Replacement

1. When the battery is low, you will receive a notification on your mobile device.
2. Remove the NFC Door Handle from the door using the provided screwdriver.
3. Locate the battery compartment on the NFC Door Handle.

4. Open the battery compartment and remove the old battery.
5. Insert a new battery of the same type and close the battery compartment securely.
6. Reattach the NFC Door Handle to the door using the provided screws.

## FAQs

- **Q: Can I use multiple mobile devices to pair with the NFC Door Handle?**

A: Yes, you can pair multiple mobile devices with the NFC Door Handle. Each device will have its own access privileges.

- **Q: What happens if I lose my mobile device?**

A: If you lose your mobile device, you should immediately deactivate the NFC pairing with the NFC Door Handle. This can usually be done through the manufacturer's mobile app or by contacting customer support.

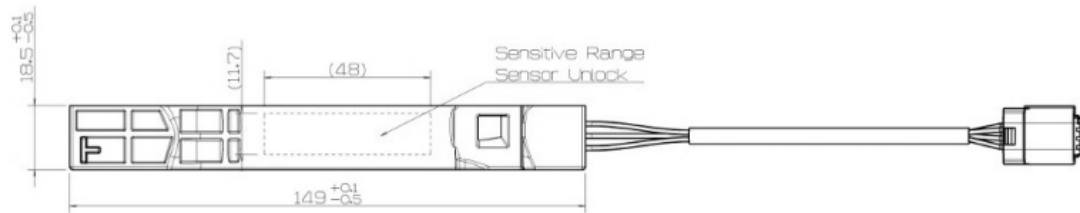
- **Q: Is the NFC Door Handle weatherproof?**

A: The NFC Door Handle is designed to withstand normal weather conditions, but it is recommended to avoid direct exposure to heavy rain or extreme temperatures.

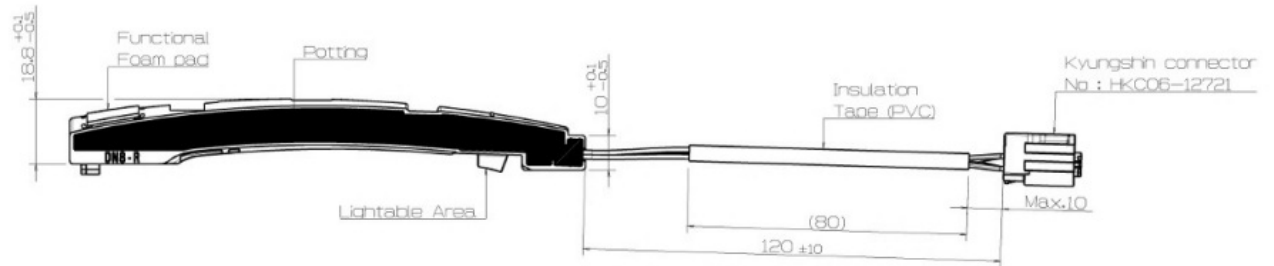
- **Q: How long does the battery last?**

A: The battery life depends on usage, but on average, it can last up to 6 months. You will receive a low battery notification on your mobile device when it's time to replace the battery.

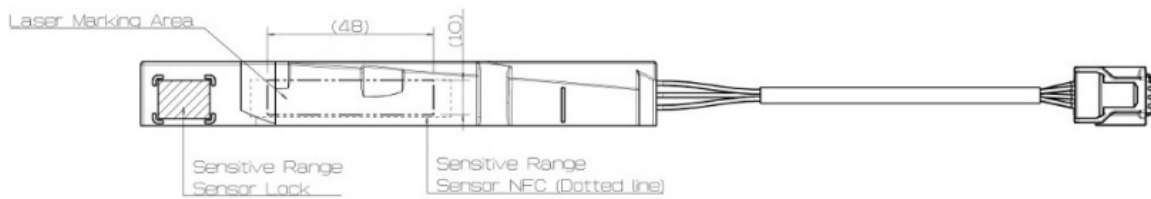
## Overview Description



Bottom View  
ANTENNA ASSY - DN8 PE DR O/S RH  
82667-L1500



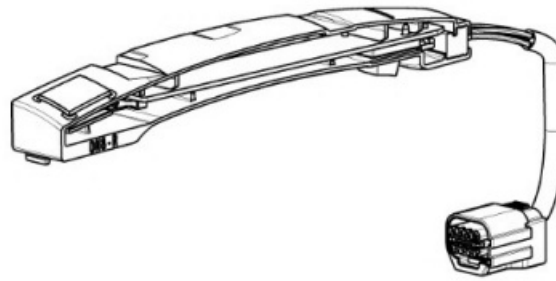
Front View



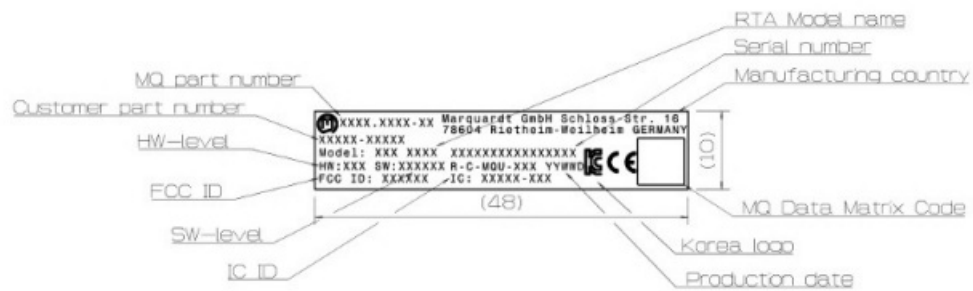
Top View



Top View  
ANTENNA ASSY - DN8 PE DR O/S LH  
82657-L1500

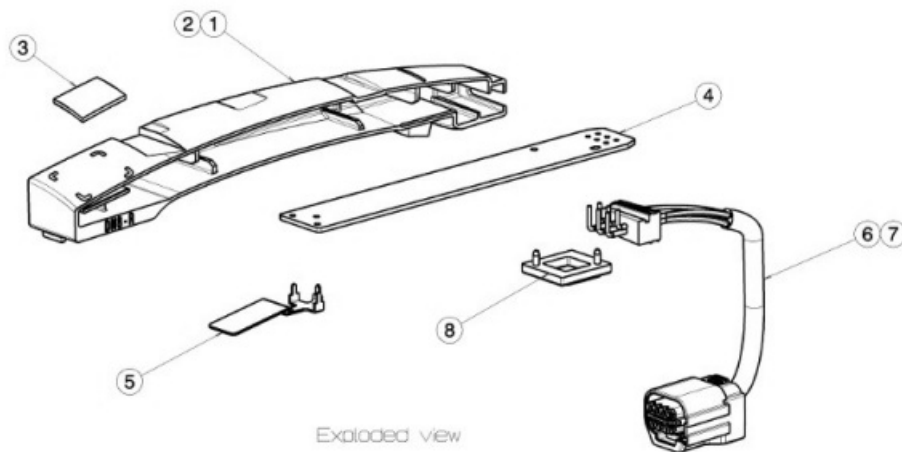


Isometric view



Label Content & Specification (2:1)

## Parts Description



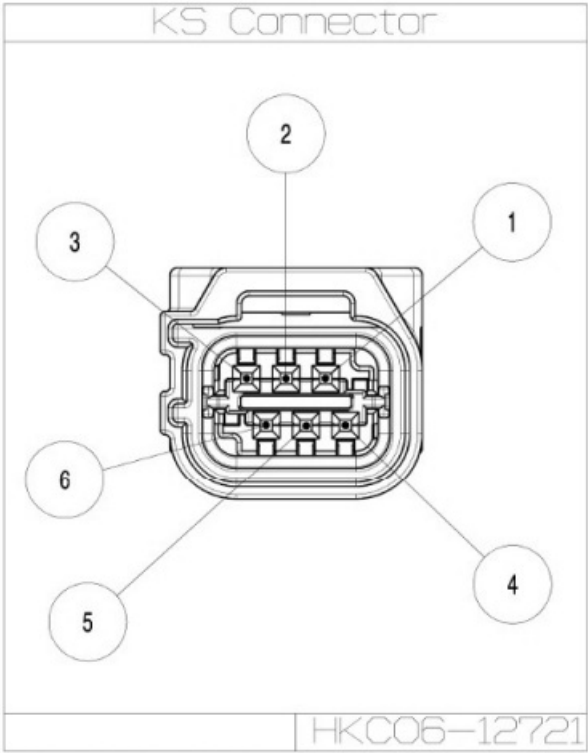
2	82667-L1500	Door Handle Sensor Module RH (CAPA+NFC)	59.9g	RH						
1	82657-L1500	Door Handle Sensor Module LH (CAPA+NFC)	59.9g	LH						
S. No.	Part No.	Part Name	Weight	Remark						

9	—	Potting	PU TYPE B (MS215-01)	—	19g	—	1	1	—	—
8	—	Gasket	NBR TYPE (MS263-02)	—	0.5g	1K PE2 C/O	1	1	—	—
7	—	Cable Set Assy RH	STD	—	5g	1K PE2 C/O	—	1	—	—
6	—	Cable Set Assy LH	STD	—	5g	1K PE2 C/O	1	—	—	—
5	—	Sensor Plate	Spring Steel	—	4g	1K PE2 C/O	1	1	—	—
4	—	PCB Assy	FR4 (Type A)	—	10g	1K PE2 C/O	1	1	—	—
3	—	Foam Pad (Seal)	PU TYPE (MS201-02)	—	0.1g	KA4 C/O	1	1	—	—
2	—	Housing RH	PC-001 TYPE B (MS215-01)	—	21.3g	New	—	1	Haze 60%	—
1	—	Housing LH	PC-001 TYPE B (MS215-01)	—	21.3g	New	1	—	Haze 60%	—
Pos.	Part No.	Title	Material	Finish	Weight	Tooling Status	Qty.	Qty.	Colour	Remark

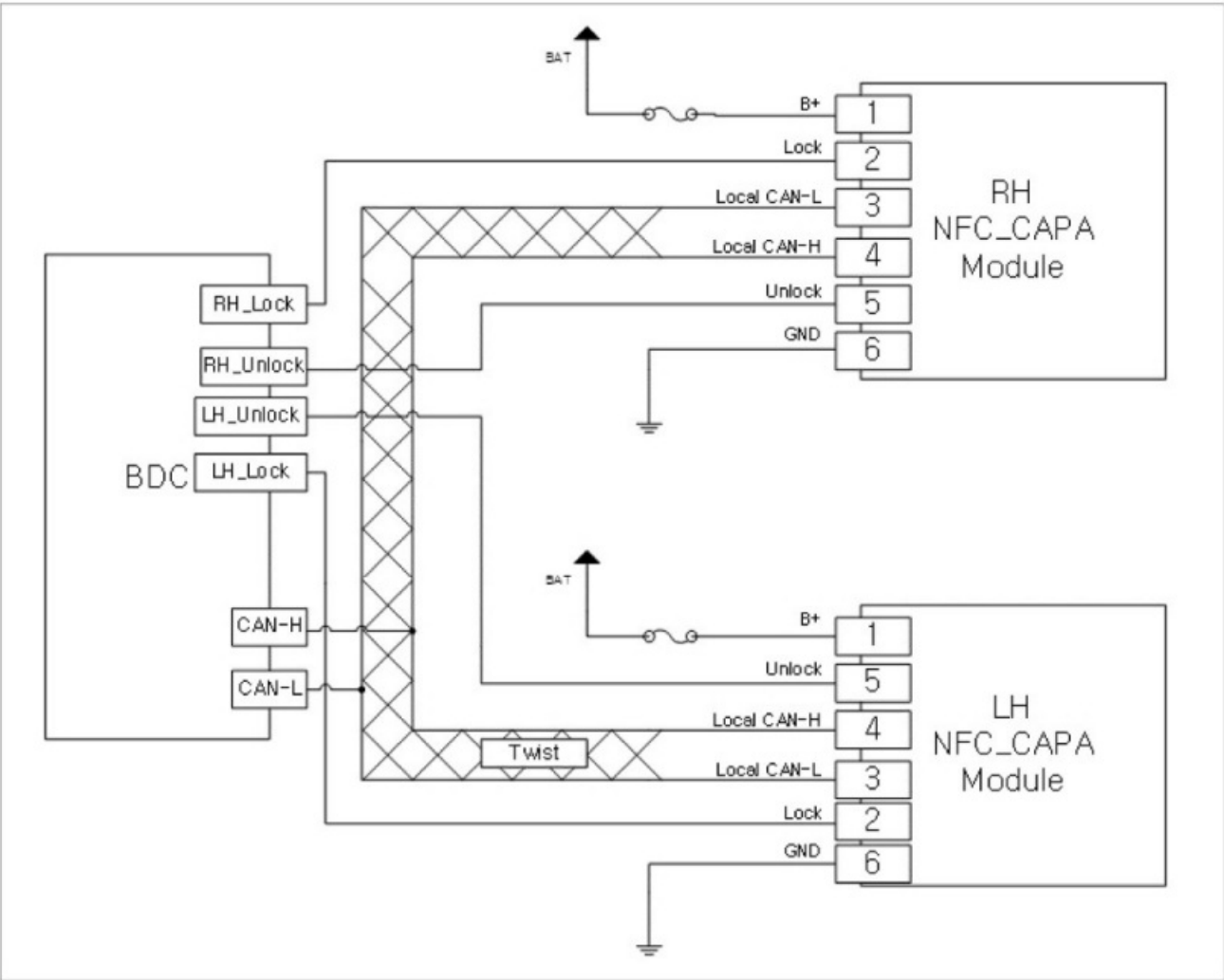
BOM

KS Connector



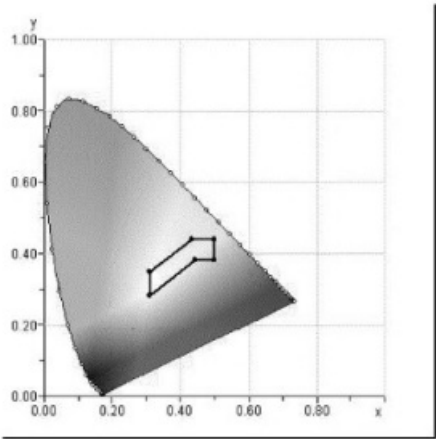
PIN Configuration						
Pin No.	Wire SQ	Wire color	Material	Plating	Pin Name	Signal Description
1	0.35mm <sup>2</sup>	Red	FLRYW	@	V Batt.	Power Supply
2	0.35mm <sup>2</sup>	Yellow	FLRYW	@	Lock	Lock Signal
3	0.35mm <sup>2</sup>	Green	FLRYW	@	L CAN (L)	CAN Low Signal
4	0.35mm <sup>2</sup>	Blue	FLRYW	@	L CAN (H)	CAN High Signal
5	0.35mm <sup>2</sup>	Pink	FLRYW	@	Unlock	Unlock Signal
6	0.35mm <sup>2</sup>	Black	FLRYW	@	GND	Electrical Ground

Wiring Connection



VERSION TABLE

H/W	S/W	L-CAN DB.	HSAC	NOTE
A.00	A.00	00.02.21	OFF	Proto Release
B.00	B.00	00.02.21	OFF	P1 Release
B.00	B.01	00.01.17	OFF	P2 Release



SPECIFICATION

Antenna Type	NFC CAPA ANTENNA Q/S DR HDL ASSY
Operation Temperature Range	-30° C to +75° C
Storage Temperature Range	-40° C to +85° C
Operating Voltage Range	9 ~16V
Operating Current	TBD
Dark Current	TBD
NFC Operating Frequency	13.65MHz
Pocket Light Current	TBD

#### Note

REQUIREMENTS OF CONCERNING APPROVAL OF THE HKMC ENGINEERING DESIGN TEAM

1. BEFORE MASS PRODUCT APPROVAL, SAMPLES MUST BE SUBMITTED TO ENGINEERING DESIGN TEAM TO APPROVE.
2. WHEN THE CHANGE OF DRAWING, COMPONENTS OR PRODUCTION METHOD OCCUR. MUST OBTAIN THE APPROVAL OF ENGINEERING DESIGN TEAM, EVEN IF IT IS APPROVED BEFORE.

#### THIS PART MUST MEET FOLLOWING SPECIFICATIONS

#### ES

- ES01000-00: SYMBOL MARKING STANDARD
- ES10500-00: OPEN SOURCE SOFTWARE MANAGEMENT SPEC
- ES82657-02: ANT MODULE ASSY-SMK HDL (TOUCH & NFC)
- 590000-01 SO DEANS ACCEPTABLE REQUIREMENTS OF ELECTRONIC ASSEMBLIES
- ES90000-02: SPECIFICATION FOR DELAMINATION CRITERIA OF AUTOMOTIVE SEMICONDUCTOR
- ES90000-03: PCB ENVIRONMENTAL RELIABILITY SPECIFICATION
- ES90000-04: ENVIRONMENTAL RELIABILITY TEST SPEC OF LEAD FREE-SOLDERING SEMICONDUCTOR \_PRODUCTS
- ES90700-00: HIGH SPEED CAN TEST SPECIFICATION FOR ELECTRONIC CONTROL UNITS
- ES90700-10: BODY&COMFORT DOMAIN HIGH SPEED CAN TEST SPECIFICATION]
- ES91100-00: WIRING HARNESS DRAWING GUIDE LINE
- ES91101-00: ELECTRICAL WIRING-COMPLETE]
- ES91110-05: Cable unification SPEC for Automotive
- ES91500-00: CONNECTOR
- ES91500-02: THE TERMINAL PLATING MANAGEMENT SPEC
- ES91500-03: THE RELIABILITY SPECIFICATION FOR PCB CONNECTOR OF AUTOMOTIVE ELECTRONIC DEVICE
- ES95400-10: ENVIRONMENTAL TEST OF ELECTRONIC DEVICE FOR VEHICLE
- ES95410-10: Door Handle Module System Specification]
- ES95411-00: SOFTWARE TEST SPECIFICATION]
- ES95480-00: HIGH SPEED CONTROLLER AREA NETWORK (CAN) DESIGN SPECIFICATION
- ES95486-00: UNIFIED DIAGNOSTIC UDS on CAN
- ES95486-02: UDS DIAGNOSTIC SPECIFICATION
- ES95489-02: SECURE FLASH

- ES95489-21: ECU GENERAL SECURITY REQUIREMENTS
- ES95489-23: SECURE CODING STANDARD|
- ES95489-24: OPEN-SOURCE SECURITY WEAKNESS VERIFICATION REQUIREMENTS
- ES96200-00: ELECTROMAGNETIC COMPATIBILITY SPECIFICATION

## **MS**

- MS184-01: Pb-FREE SOLDER PASTE
- MS184-02: Pb-FREE SOLDER WIRE
- MS201-01: MARKING OF MATERIALS FOR AUTOMOTIVE PARTS
- MS201-02: PROHIBITION OF THE USE OF HARMFUL SUBSTANCES
- MS941-01 TYPE B: Copper Clad Laminate Printed Circuit Board
- MS941-03: THERMOPLASTIC POLYMERIC MATERIALS-ELECTRICAL AND ELECTRONIC COMPONENTS CONNECTORS
- MS911-03: COPPER AND COPPER ALLOY-CONDUCTOR WIRE FOR AUTOM
- MS260-13: SPONGE RUBBER

## **REGULATIONS**

### **THIS PART SHOULD CONFORM TO FOLLOWING REGULATIONS;**

- POCKET LIGHTING: DOMESTIC ARTICLE 38-3. FMVSS 108, ECE R-48, 76/756/EEC, GB 4785
  - WHITE (BE CONFORMED TO FIG.1)
  - BLUE BOUNDARY:  $x \geq 0.310$
  - YELLOW BOUNDARY:  $x \leq 0.500$
  - VICET BOUNDARY  $2000 \pm 0.15\%$  502200
- EMC: 72/245/EEC, 2009/19/EC, ECE R-10, UNECE R-10
- RED BOUNDARY:  $y \geq 0.382$
- CYBER SECURITY: UNECE R-155
- SOFTWARE UPDATE: ECE R-156

THE PART SHOULD CONFORM TO THE LATEST VERSION OF REGULATIONS

## **REQUIREMENTS**

1. THIS PART MUST NOT HAVE THE COARSE SURFACE, SHRINKAGE, GAP AND BURRS ETC
2. THE DIMENSIONS OF THE PART MUST BE MEASURED AFTER 24 HOURS FROM COMPLETION OF THE MANUFACTURING PROCESS.
3. THIS PART SHOULD NOT BE INFRINGE PATENTS]
4. UNSPECIFIED SHARP EDGE SHOULD BE MIN RO.5.
5. ELECTRICAL COMPONENTS IN THE HOL : MUST MEET WATER-PROOF AND DUST PROOF(LEVEL IP67)
6. EXPOSED AREA OF WIRE SHALL BE FREE FROM SHORT DUE TO BENDING & SHARP EDGE.
7. CONNECTOR SPEC. MUST BE REQUIRED BY CONNECTOR MAKER'S APPROVAL AND THE DOCUMENT MUST BE SUBMITTED.

8. ALL ELECTRONIC COMPONENTS DEVELOPED FOR AUTOMOTIVE MUST BE APPLIED.
9. CONNECTOR MAKER'S APPROVAL IS REQUIRED TO USED CONNECTORS.
10. MUST MEET THE BELOW REQUIREMENTS FOR WIRING]
  1. THERE ARE NO DEFECT SUCH AS SCRATCH CUT AND GASH OF INSULATOR (WIRE INSULATOR, TAPE ETC) ON WIRING HARNESS
  2. APPLY HEAT SHRINK ADHESIVE TUBE (135C) AT JOINT IN NONE
  3. APPROPRIATE CAR OF AREA FACE NE CONNECTOR THAT APPLY GOLD AND SILVER PLATE TERMINAL.
11. Signal Redundancy Control Type: Type B
12. APPLY DIGITAL KEY 2.01

Missing dimensions according to 3D-model. Allowed deviations of 3D data tie according to general tolerances in title block. Dimensions shown in 0 are for reference only.

## FCC STATEMENT

### Warning sentence for FCC

- **Product:** NFC Door Handle
- **Model:** HH4
- **FCC ID:** IYZHH4
- **IC:** 2701A-HH4

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
  2. this device must accept any interference received, including interference that may cause undesired operation.
- Privacy of communications may not be ensured when using this device.


### Warning sentence for ISED:

#### **This device complies with Industry Canada licence-exempt RSS standard(s):**

Operation is subject to the following Two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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## Documents / Resources

	<a href="#">MARQUARDT HH4 NFC Door Handle</a> [pdf] User Manual HH4, IYZHH4, HH4 NFC Door Handle, NFC Door Handle, Door Handle, Handle, 2701A-HH
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## References

- [User Manual](#)

Manuals+.