

USER MANUAL		
Document No.: SOP_015-WI-153	Instrument Actuator (Model No.: MACT)	Revision: 1.0

The Instrument Actuator (Model: MACT, FCC ID: 2BOLQ-MACT) is the host device for RFID Module (Model: 106MSF0063, FCC ID: 2BOLQ-106MSF0063). The Instrument Actuator is installed on the Tool interface of the SSI Mantra Surgical Robotic System.



Fig. 1.2 Instrument Actuator

USER MANUAL		
Document No.: SOP_015-WI-153	Instrument Actuator (Model No.: MACT)	Revision: 1.0

RFID Module



Fig. 1.1 RFID Module

Labeling Information

This device includes the following regulatory labeling(Fig. 2) on the bottom panel: FCC ID of host: 2BOLQ-MACT Contains: FCC ID: 2BOLQ-106MSF0063

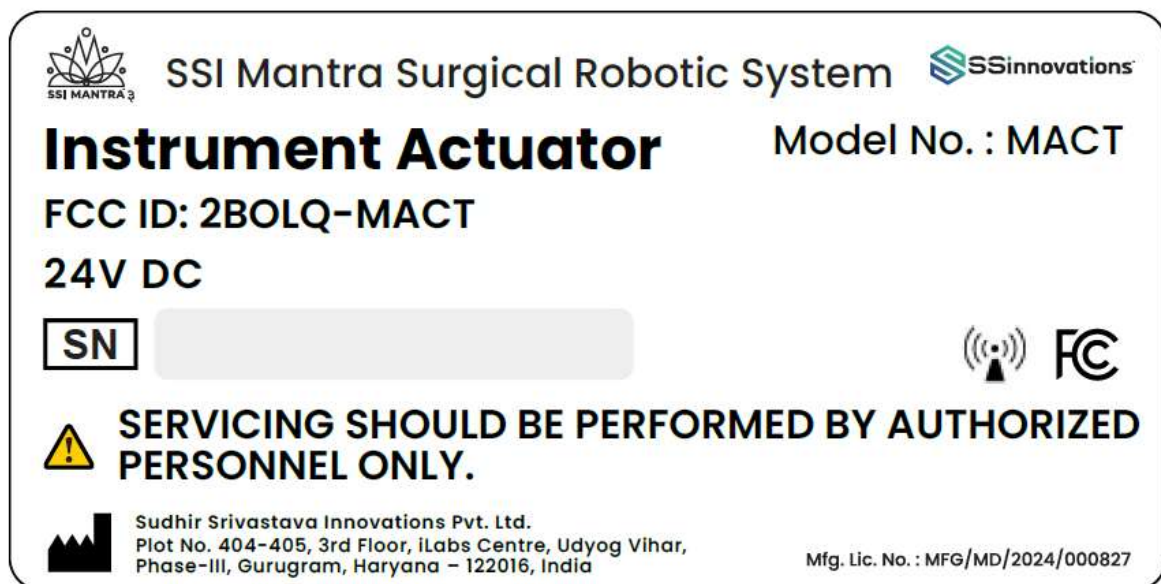


Fig. 2.1 Label

USER MANUAL		
Document No.: SOP_015-WI-153	Instrument Actuator (Model No.: MACT)	Revision: 1.0

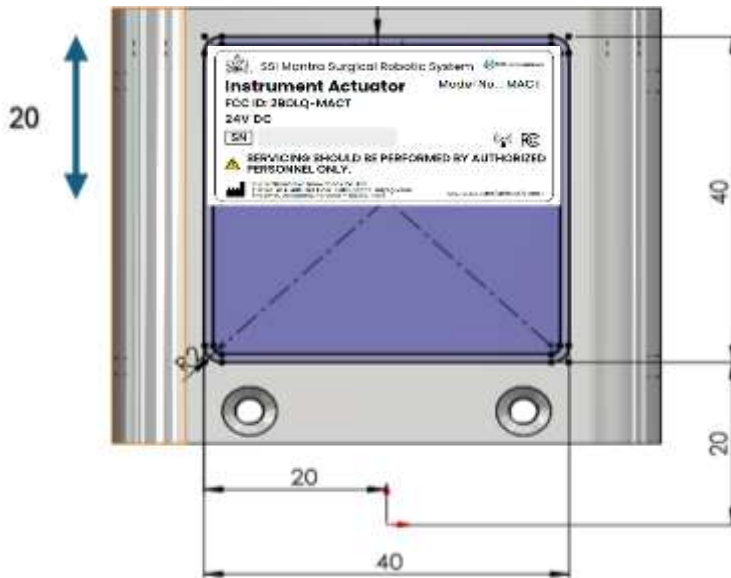


Fig. 2.2 Label Location on bottom panel of Host Device



Fig. 3. International Radiation Symbol

The intentional radiator symbol (Fig. 3 as per EN 60601-1-2 Ed.3), clearly visible without the use of tools.

Regulatory Compliance

This device, the Instrument Actuator (Model No: MACT), includes an integrated RFID Module (Model: 106MSF0063), which has been granted FCC Limited Modular Approval (LMA) with Class II Permissive Change (C2PC).

This module is certified for use only within this host device and must not be used in any other configuration.

USER MANUAL		
Document No.: SOP_015-WI-153	Instrument Actuator (Model No.: MACT)	Revision: 1.0

FCC Part 15 Subpart B Compliance Disclaimer

This module has been evaluated for compliance under FCC Part 15 Subpart C as an intentional radiator. The host device into which this module is integrated must also be evaluated for compliance with the FCC requirements for unintentional radiators under Part 15 Subpart B. The integrator is responsible for ensuring that the final host product complies with these additional requirements unless it qualifies for an exemption (e.g., battery-operated, no digital circuitry). Failure to meet Part 15 Subpart B requirements may result in non-compliance of the overall system.

FCC Part 15 Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference, and This device must accept any interference received, including interference that may cause undesired operation. (Reference: 47 CFR §15.19)

FCC Identifiers

FCC ID (Host Device): 2BOLQ-MACT

Contains FCC ID: 2BOLQ-106MSF0063 (RFID Module)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference, and This device must accept any interference received, including interference that may cause undesired operation. (Reference: 47 CFR §15.19)

Cautions and Warnings

Radiation Exposure

To comply with FCC RF exposure regulations: The device must be installed and operated with a minimum distance of 20 cm between the radiator (antenna) and the user's body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. (Reference: 47 CFR §§2.1091 and 2.1093)

Important Note on Module Use

USER MANUAL		
Document No.: SOP_015-WI-153	Instrument Actuator (Model No.: MACT)	Revision: 1.0

The RFID module is: Certified only for use in this device. Not intended for resale, reuse, or integration into other products. Integration into any other host device requires a new FCC certification.

Sudhir Srivastava Innovations Pvt. Ltd. has ensured that: The module uses a non-detachable PCB loop antenna, which must not be modified or replaced. The device's firmware does not allow user control of radio functions like frequency, power, or modulation.

The 3.3V DC power to the module is supplied from a regulated circuit, minimizing ripple and ensuring compliance. Proper grounding, shielding, and enclosure design have been followed to limit emissions and prevent interference.

Non-compliance with these conditions may result in the loss of FCC certification and could incur regulatory penalties.

⚠ Caution: Changes or modifications not expressly approved by Sudhir Srivastava Innovations Pvt. Ltd. could void the user's authority to operate this equipment. (Reference: 47 CFR §15.21)

Operational Description

The Sudhir Srivastava Innovations Pvt. Ltd. Model-MACT is a Instrument Actuator for use in Mantra Surgical Robotic System. It identifies the instrument mounted on it. The EUT was treated as tabletop equipment during testing. The electrical rating of the EUT is 24V DC. It is powered by Tool Interface.

Test Modes

Transmission was enabled with highest possible duty cycle on 13.56 MHz channel.

USER MANUAL		
Document No.: SOP_015-WI-153	Instrument Actuator (Model No.: MACT)	Revision: 1.0

Installation Instructions

1. Position the tool interface Vertically , placing the rail in the middle.	2. Align the Actuator in front of the Tool Interface and plug the connector.
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USER MANUAL



Document No.:
SOP_015-WI-153

Instrument Actuator (Model No.: MACT)

Revision:
1.0



- 3.** Tighten the Instrument Actuator on Tool Interface using 2 screws(P/N:600-BMC-0348) on top and 2 screws on bottom plate.



- 4.** The final assembly will look as shown in the image below

USER MANUAL		
Document No.: SOP_015-WI-153	Instrument Actuator (Model No.: MACT)	Revision: 1.0



Customer Support

For any inquiries regarding Regulatory Support or the integration guidelines please reach out to:

For SSI Personnel Only

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Page 8 of 9

USER MANUAL		
Document No.: SOP_015-WI-153	Instrument Actuator (Model No.: MACT)	Revision: 1.0

Hardware Compliance Engineering

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