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2 Sep 2022	Ray Ling	Pavel	MS-SRET-RPLT-001	0

## S-RET Motor Replacement Instruction Manual

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#### Revision History:

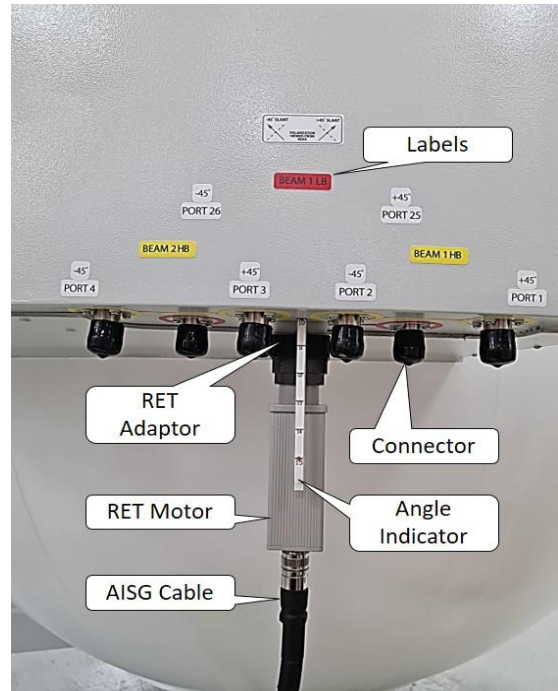
Date	Description	Revised by	Revision nos.

## 1.00 ANTENNA OVERVIEW

### 1.10 Antenna Rear View



### 1.20 RET Motor Overview



## 2.00 RET MOTOR REPLACEMENT PROCESS

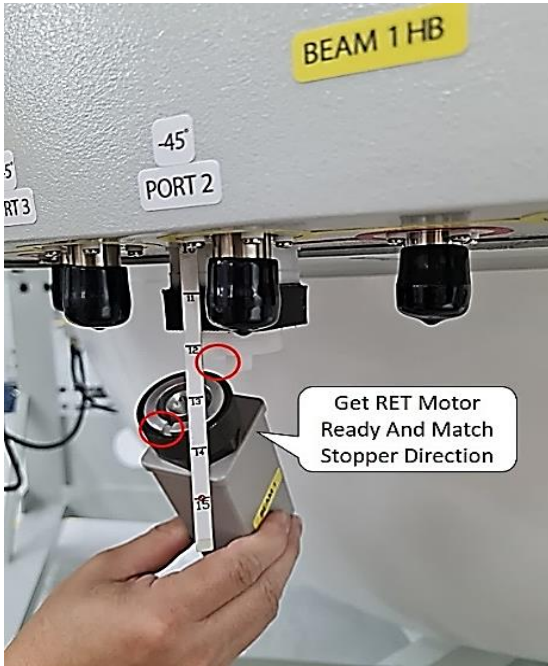
### 2.10 Locate faulty S-RET Motor for replacement

Step 1: Uninstall AISG Cable

Step 2: Uninstall The Faulty S-RET Motor



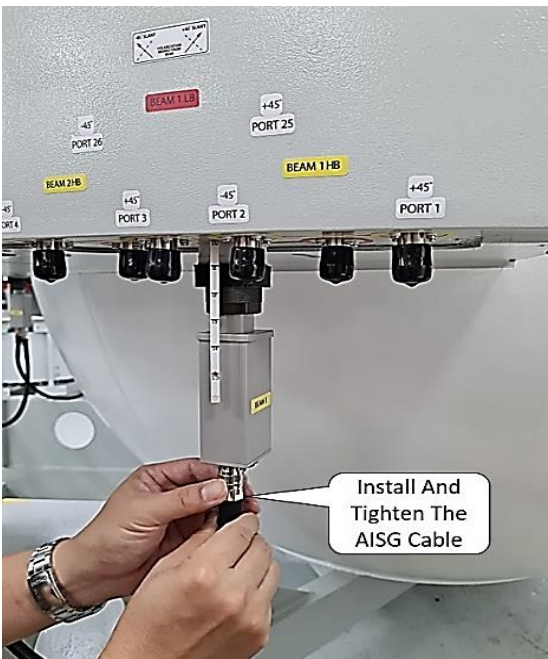
Step 3: Get New S-RET Motor Ready



Step 4: Install And Tighten The S-RET Motor



Step 5: RE-Install & Tighten The AISG Cable



Step 6: New S-RET Motor Install Complete



## 2.20 Calibration

### 2.21 Using the S-RET Calibration Software

Step 1: Select & Click the Replaced S-RET Motor

Virtual AISG MCU (Version : 1.18)

File Help

ALD List

NO	HDLC	Vendor	Serial Number	Product Number	H/W Version	S/W Version	3GPP	Device	AISG	Connect	Link
1	1	MS	126DB180-000538B1	ACS-RU370	1.00	5.12	6	Single RET	2	Connect	Link
2	2	MS	126DB180-000538B2	ACS-RU370	1.00	5.12	6	Single RET	2	Connect	Link
3	3	MS	126DB180-000538B3	ACS-RU370	1.00	5.12	6	Single RET	2	Connect	Link
4	4	MS	126DB180-000538B4	ACS-RU370	1.00	5.12	6	Single RET	2	Connect	Link
5	5	MS	126DB180-000538B5	ACS-RU370	1.00	5.12	6	Single RET	2	Connect	Link
6	6	MS	126DB180-000538B6	ACS-RU370	1.00	5.12	6	Single RET	2	Connect	Link

Progress Status

COM Port: RS485 TX : 27758, RS485 RX : 27275, PC Port Open Status: , COM Port: COM3

ALD Connection and Reset: RET Connection, ALL Reset

ALD Control and Status Window: Tilt Angle Settings, Config Data Viewer, Devedata Management, Download

Exit

Step 2: Click "Calibration"

RET Tilt Window

RET ID : MS126DB180-000538B1

RET Status and Control

Antenna Information List

NO	Sector ID	Ant Model	Ant Serial	Current Tilt	Status
1/1	Beam 1	MS-12.6DB180	MS12.6DB180000538	10.0	Normal

Board Information

Final Counter: Target : 0, Current : 0, Over : 0

Progress Counter: Target : 0, Current : 0, Over : 0

Board#1 Voltage: Minimum : 0 mV, Maximum : 0 mV, Current : 0 mV

Board#2 Voltage: Minimum : 0 mV, Maximum : 0 mV, Current : 0 mV

Motor Voltage: Minimum : 0 mV, Maximum : 0 mV, Current : 0 mV

Backdash Count : 0, Direction for Backdash Compensation : CW, Final Tilt Angle : 0.0

Get Board Information

AISG Alarm: Motor Jam, Actuator Jam, Busy, Checksum Error, Not Calibrated, Not Configured, Hardware Error, Out of Range, Unknown Procedure, Read Only, Unknown Parameter, Software Missing, Invalid File Content, Format Error, Unsupported Proc., Invalid Proc. Seq., Actuator Interference

Alarm: Motor Jam, Actuator Jam, Busy, Checksum Error, Not Calibrated, Not Configured, Hardware Error, Out of Range, Unknown Procedure, Read Only, Unknown Parameter, Software Missing, Invalid File Content, Format Error, Unsupported Proc., Invalid Proc. Seq., Actuator Interference

Get Alarm Status

Tilt and Calibration: Minimum Tilt : 0.0, Maximum Tilt : 15.0

Click "Calibration"

Set Tilt(Combo), Calibration, Set Tilt(Edit), SelfTest

Parking: Status : OFF, Set Parking(ON), Set Parking(OFF)

Motor Start PWM Level: Cur PWM Level : 0: Not used, Set Mot Start Level

Motor User Control: Current Count : 0, Set Target Count

All Antenna Control: Set Tilt (ALL), Calibration (ALL)

Get Log, Close

2.22 Replacement of New S-RET Motor Complete.