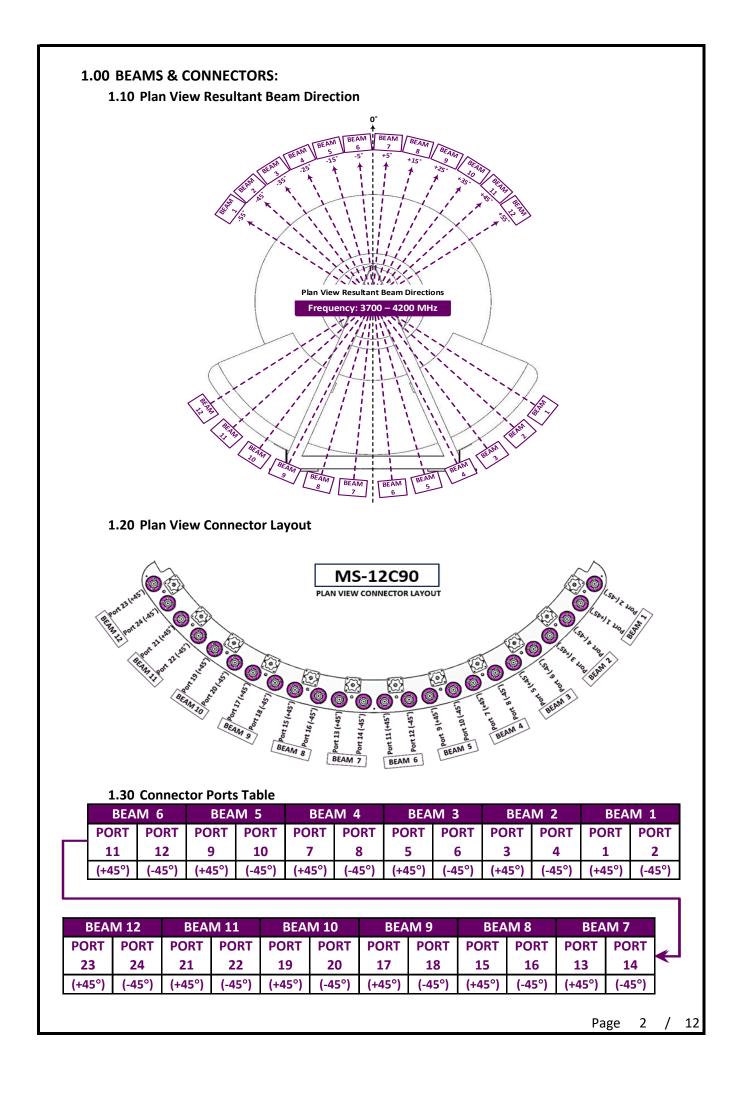
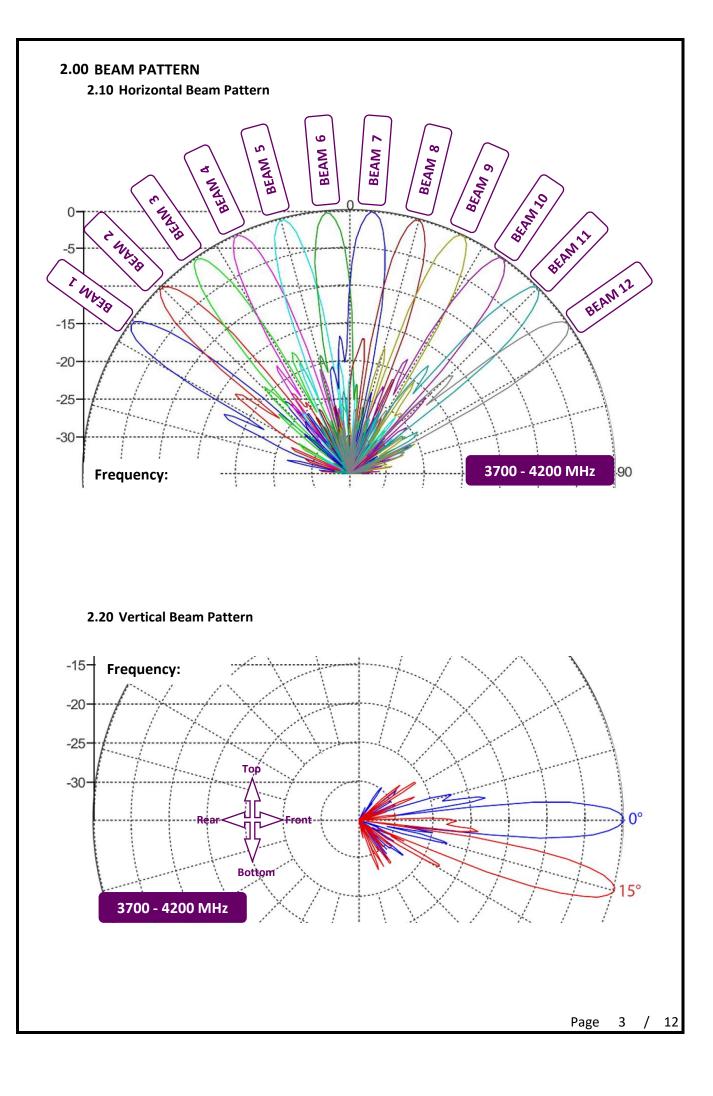
	MS-12C90		Instruction Manual				
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		ONNECTORS:					
		w Resultant Bea	m Direction	1.20 Plan Viev	w Connector Layout		
1.30	Connect	or Ports Table					
2.00 BEA							
2.10	Horizon	tal Beam Patterr	1	2.20 Vertical	Beam Pattern		
3.00 MA	NUAL T	ILT ADJUSTME	NT				
4.00 "S"	RET AC	TUATOR INSTA	LLATIONS/REP	LACEMNT PROC	CESS (Optional)		
4.10	"S" RET	Actuator Materi	als & Tools				
4.20	Installat	ion / Replaceme	nt Process (Reve	erse Process for U	ninstallation)		
			IECTION & OPE				
				(2 Group of 6 Mo	otors)		
		& S/N Reference					
			e (Group 1)		Port Nos Display (Gr	• •	
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		rtation (From Po	-	6.20 Bracket	-		
		ion using a crane	2	6.31 Lifting th			
		Installation		6.41 Antenna	0		
6.42	Digital L	evel Gauge Calib	ration	6.43 Adjustm	ent Requirement		
Revision His	tory:						
Date			Descriptio	on	Rev b	y Rev nos	
25-Sep-23	Include	RET Controller D	isplay		Ray	1	
10-Nov-23	Add RET	Replacement /	Installation Caut	ion Point	Ray	2	
10-Nov-23 Add RET Replacement / Installation Cau				nce Ray			

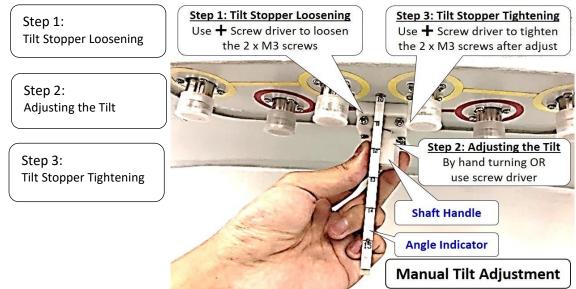
email: info@matsing.com

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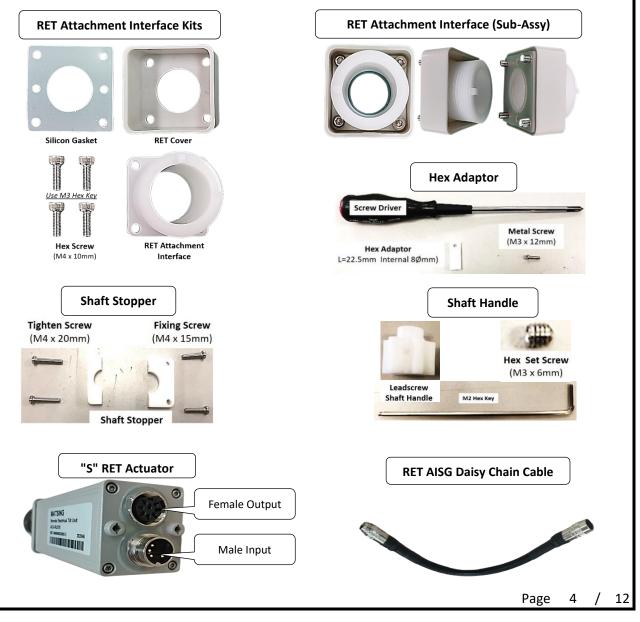




3.00 MANUAL TILT ADJUSTMENT

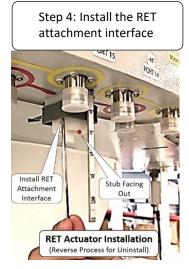


4.00 "S" RET ACTUATOR INSTALLATIONS/REPLACEMNT PROCESS (Optional) 4.10 "S" RET Actuator Materials & Tools



4.20 Installation / Replacement Process (Reverse Process for Uninstallation)













1. Do not apply any rotation force to the cable

2. Carefully align same direction to the keyway before insertion.

3. Insert direct (not angular) until well fully seated before turning.

4. Once both thread is fit can start slowly turning.

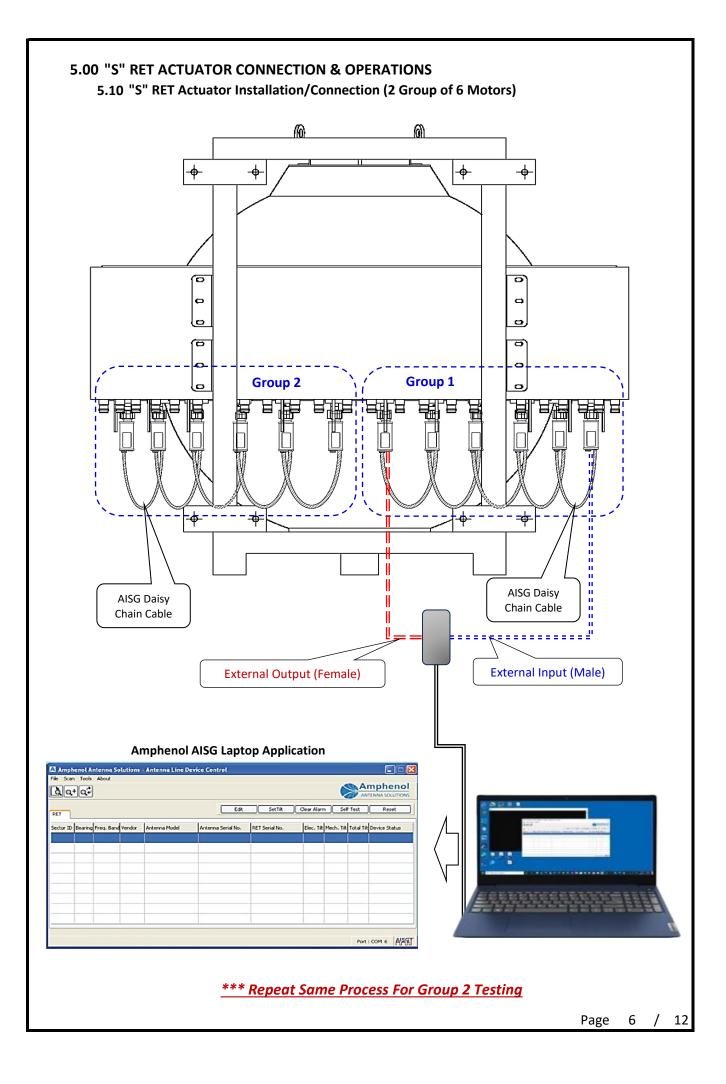
5. Tighten the AISG connector by hand only.

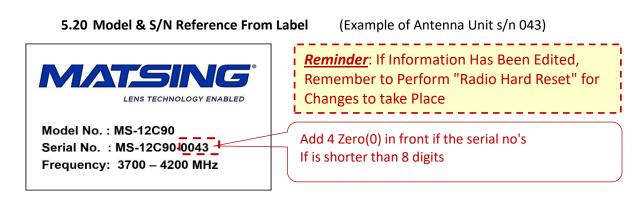
6. If use torque wrench do not exceed 1.1 Nm (0.8 ft if) torque.



Repeat the same process for other actuator installation.

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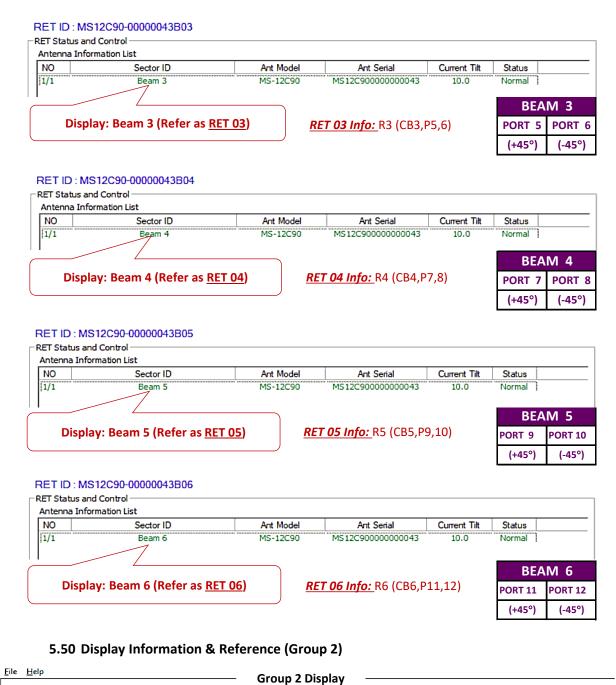




5.30 Display Information & Reference (Group 1)

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	MS 12C90-00000043802 MS 12C90-00000043803	ACS-RU370	1.00 1.00	5.12 5.12	6 6	Single RET Single RET		Connect Connect		Link Link	
	MS 12C90-00000043804	ACS-RU370	1.00	5.12	6	Single RET	2	Connect	~	Link	
	MS 12C90-00000043B05	ACS-RU370	1.00	5.12	6	Single RET		Connec		Link	
66	MS 12C90-00000043B06	ACS-RU370	1.00	5.12	6	Single RET	2	Connect	t 🥝	Link	
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NO	Beam 2										2
NO	Beam 2								E	BEAM	~
NO 1/1		er as RFT 02)		RET 02 li	nfo: Ri	2 (CB2,P	3,4)				
NO 1/1	Beam 2 splay: Beam 2 (Refe	er as <u>RET 02</u>)		<u>RET 02 li</u>	n <u>fo:</u> R	2 (CB2,P	3,4)		POR	T 3 P	ORT
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NO 1/1		er as <u>RET 02</u>)		<u>RET 02 II</u>	n <u>fo:</u> R	2 (CB2,P	3,4)		POR	T 3 P	ORT

12



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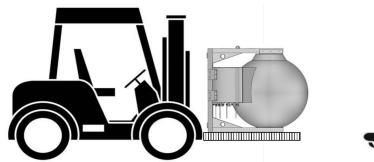
Ber Subs and Control Art Model Art Model Art Senal Current Tite Status IVI Segan 7 MS-12500 MS12250000000043 10.0 Nermal 1 Display: Beam 7 (Refer as RET 07) RET 02 Info: R7 (CB7,P13,14) RET 02 Info: R7 (CB7,P13,14) RET 10: MS12C90-00000043B03 RET 10: MS12C90-00000043B03 Art Model Art Senal Current Tite Status Normal Beam 8 MS-12500 MS12C9000000043 10.0 Normal Display: Beam 8 (Refer as RET 08) RET 08 Info: R8 (CB8,P15,16) BEAM 8 PORT 15 PORT 16 IVI Beam 9 MS-12250 MS12C9000000043 10.0 Normal 1 Display: Beam 8 (Refer as RET 08) RET 09 Info: R8 (CB8,P15,16) BEAM 9 PORT 15 PORT 16 IVI Beam 9 MS-12250 MS12C9000000043 10.0 Normal 1 IVI Beam 9 MS-12250 MS12C9000000043 10.0 Normal 1 IVI Beam 9 MS12C9000000043 10.0 Normal 1 MS12C9000000043 10.0 Normal 1 IVI </th <th></th> <th>12C90-00000043B07</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		12C90-00000043B07						
NO Sector ID Art Model Art Senal Current Tit Sector Display: Beam 7 MS-12290 MS12290000000043 10.0 Normal Display: Beam 7 RET 07 Info:: RT (CB7,P13,14) PORT 13 PORT 14 MS1229000000043 RET 07 Info:: RT (CB7,P13,14) PORT 14 (45°) PORT 13 PORT 14 (45°) (45°) (45°) RET 10 - MS12C90-00000043E08 MS12290000000043 10.0 Normal PORT 13 PORT 14 MS1229000000043 10.0 Normal Display: Beam 8 MS12290000000043 10.0 Normal PORT 15 PORT 15 PORT 16 (45°) (45°) V1 Beam 8 MS12290000000043 10.0 Normal Normal 1 Beam 9 MG-12290 MS12290000000043 10.0 Normal V1 Beam 9 MG-12290 MS12290000000043 10.0 Normal Normal 1 Beam 10 MG-12290 MS12290000000043 10.0								
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Display: Beam 7 (Refer as <u>RET 07</u>) RET 07 Info: R7 (CB7,P13,14) BEAM 7 PORT 13 PORT 14 (r45°) PORT 13 PORT 14 (r45°) PORT 13 PORT 14 (r45°) PORT 13 PORT 14 (r45°) RET ID : MS12C90-0000043803 Art Model Art Senial Current Tit Status Normal Morean Jointowando Morean Jointowando Normal I Normal Morean Jointowando Morean Jointowando Normal I Display: Beam 8 (Refer as <u>RET 08</u>) RET 08 Info: R8 (CB8,P15,16) BEAM 8 PORT 15 PORT 16 (r45°) PORT 15 (r45°) Networks information Morean Jointowando Normal I I Normal III BEAM 9 PORT 12 PORT 18 (r45°) I PORT 18 (r45°) Networks information list Morean Jointowando Normal I I Normal III BEAM 9 PORT 12 PORT 18 (r45°) I I I Normal III BEAM 9 PORT 12 PORT 18 (r45°) I I I Normal IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								
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Display: Beam 9 Art Model Art Senial Current Tit Status N/1 Beam 8 (Refer as RET 08) RET 08 Info:: R8 (CB8,P15,16) BEAM 8 Display: Beam 8 (Refer as RET 08) RET 08 Info:: R8 (CB8,P15,16) BEAM 8 PORT 15 PORT 15 PORT 15 (r45°) (r45°) RET ID : MS12C90-00000043B09 Normal Normal Normal RET ID : MS12C90-00000043B09 Normal Normal Normal Normal MS-12C90 MS12C9000000043 10.0 Normal Normal Normal Normal Normal Normal Display: Beam 9 MS-12C90 MS12C9000000043 10.0 Normal RET ID : MS12C900-00000043B10 RET 10 Info: R9 (CB10,P19,20) Normal Normal No Sector ID Art Model Art Senial Current Tit Status NO Sector ID Art Model Art Senial Current Tit Status Normal	Displa	y: Beam 7 (Refer as <u>R</u>	ET 07)	R	<u>₹ET 07 Info:</u> R7 (CB7,P	13,14)		
Ber Fishus and Control Arit Model Art Serial Current Tit Status I/1 Beam 8 MS-12259 MS1229000000043 10.0 Normal Display: Beam 8 (Refer as RET 08) RET 08 Info:: R8 (CB8,P15,16) BEAM 8 PORT 15 PORT 16 (r45°) (r45°) NO Sector ID Art Model Art Serial Current Tit Status NO Sector ID Art Model Art Serial Current Tit Status NO Sector ID Art Model Art Serial Current Tit Status IV1 Beam 9 MS-12090 MS12290000000043 10.0 Normal IV1 Beam 9 MS-12090 MS12290000000043 10.0 Normal IV1 Beam 9 RET 09 Info:: R9 (CB9,P17,18) BEAM 9 PORT 17 PORT 18 RET Status and Control Art Model Art Serial Current Tit Status No Sector ID Art Model Art Serial Current Tit Status ND Beam 10 MS-12050 MS1209000000043 10.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(+45°)</td> <td>(-45°)</td>							(+45°)	(-45°)
Ber Fishus and Control Arit Model Art Serial Current Tit Status I/1 Beam 8 MS-12259 MS1229000000043 10.0 Normal Display: Beam 8 (Refer as RET 08) RET 08 Info:: R8 (CB8,P15,16) BEAM 8 PORT 15 PORT 16 (r45°) (r45°) NO Sector ID Art Model Art Serial Current Tit Status NO Sector ID Art Model Art Serial Current Tit Status NO Sector ID Art Model Art Serial Current Tit Status IV1 Beam 9 MS-12090 MS12290000000043 10.0 Normal IV1 Beam 9 MS-12090 MS12290000000043 10.0 Normal IV1 Beam 9 RET 09 Info:: R9 (CB9,P17,18) BEAM 9 PORT 17 PORT 18 RET Status and Control Art Model Art Serial Current Tit Status No Sector ID Art Model Art Serial Current Tit Status ND Beam 10 MS-12050 MS1209000000043 10.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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I/1 Beam 6 MS-12C90 MS12C9000000043 ID.0 Hormal Display: Beam 8 (Refer as RET 08) RET 08 Info: R8 (CB8,P15,16) BEAM 8 PORT 15 PORT 16 (45°) (45°) RET ID : MS12C90-00000043809 Art Model Art Serial Current Tit Satua Normal N								
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PORT 13 PORT 13 (r45°) (r45°) (r45°) (r45°) RET ID : MS12C90-00000043B09 EFT Status and Control No Sector ID No Sector ID MS-12C90 MS12C90000000043 Display: Beam 9 MS-12C90 MS12C90-00000043B10 RET 09 Info: R9 (CB9,P17,18) RET ID : MS12C90-00000043B10 RET 09 Info: R9 (CB9,P17,18) RET Status and Control Art Model Antenna Information List NO NO Sector ID MS12C90-000000043B10 RET 10 Info: R10 (CB10,P19,20) BEAM 10 PORT 12 PORT 19 PORT 20 (r45°) (r45°) RET ID : MS12C90-000000043B11 ET Status and Control Art Model Art Serial Current TR NO Sector ID Art Model Art Serial Info: Scotor ID Art Model MS12C90000000043 10.0 Normal Beam 11 MS12C900-000000043B12 MS12C900000000043		·					BEA	M 8
Interime Interim Interim	Displa	iy: Beam 8 (Refer as <u>R</u>	ET 08)	<u> </u>	<u>RET 08 Info:</u> R8 (CB8,F	215,16)	PORT 15	PORT 16
RET ID : MS12C90-00000043B09 RET Status and Control Normal Ant Model Art Senial Current Tit Status IVI Beam 9 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 9 MS-12C90 MS12C90000000043 10.0 Normal Iteration for formation (445°) (45°) RET ID : MS12C90-00000043B10 RET 09 Info: R9 (CB9,P17,18) RET 09 Info: (445°) (45°) RET ID : MS12C90-00000043B10 Art Senial Current Tit Status Iteration (445°) NO Sector ID Art Model Art Senial Current Tit Status IVI Beam 10 MS-12C90 MS12C9000000043 10.0 Normal Display: Beam 10 (Refer as RET 10) RET 10 Info: R10 (CB10,P19,20) REAM 10 PORT 20 RET ID : MS12C90-00000043B11 MS12C90000000043 10.0 Normal Iter 19 MO Sector ID Art Model Art Senial Current Tit Status IVI Beam 11 MS12C900000000043 10.0 Normal Iter 11 Info:)					
BEET Status and Control Art Model Art Senial Current Tit Status IV1 Beam 9 MS-12C90 MS 12C90000000043 10.0 Normal Display: Beam 9 (Refer as RET 09) RET 09 Info:: R9 (CB9,P17,18) BEAM 9 PORT 17 PORT 18 (+45°) (-45°) RET ID : MS12C90-00000043B10 RET 209 Info:: R9 (CB9,P17,18) BEAM 9 PORT 17 PORT 18 (+45°) (-45°) IV1 Beam 10 MS-12C90 MS12C9000000043 Normal IV1 Beam 10 MS-12C90 MS12C90000000043 Normal Display: Beam 10 (Refer as RET 10) RET 10 Info:: R10 (CB10,P19,20) BEAM 10 PORT 19 PORT 20 (+45°) (+45°) IV1 Beam 11 MS-12C90 MS12C9000000043 10.0 NO Sector ID Art Model Art Senial Current Tit Status IV1 Beam 11 MS-12C90 MS12C9000000043 10.0 Normal IV1 Beam 11 RET 11 Info:: R11 (CB11,P21,22) RET 12 Norm							(+45°)	(-45°)
Ber Status and Control Ant Model Ant Serial Current Tit Status IV1 Beam 9 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 9 (Refer as RET 09) RET 09 Info:: R9 (CB9,P17,18) BEAM 9 PORT 17 PORT 18 (+45°) (-45°) (-45°) (-45°) (-45°) RET ID : MS12C90-00000043B10 Ant Model Ant Senial Current Tit Status NO Sector ID Ant Model Ant Senial Current Tit Status IV1 Beam 10 MS-12C90 MS12C90000000043 10.0 Normal IV1 Beam 10 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 10 (Refer as RET 10) RET 10 Info:: R10 (CB10,P19,20) BEAM 10 PORT 20 RET ID : MS12C90-00000043B11 EET Status and Control Ant Model Ant Senial Current Tit Status NO Sector ID Ant Model Ant Senial Current Tit Status IV1 Beam 11 MS-12C90 MS12C90000000043 10.0								
Ber Status and Control Ant Model Ant Serial Current Tit Status IV1 Beam 9 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 9 (Refer as RET 09) RET 09 Info:: R9 (CB9,P17,18) BEAM 9 PORT 17 PORT 18 (+45°) (-45°) (-45°) (-45°) (-45°) RET ID : MS12C90-00000043B10 Ant Model Ant Senial Current Tit Status NO Sector ID Ant Model Ant Senial Current Tit Status IV1 Beam 10 MS-12C90 MS12C90000000043 10.0 Normal IV1 Beam 10 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 10 (Refer as RET 10) RET 10 Info:: R10 (CB10,P19,20) BEAM 10 PORT 20 RET ID : MS12C90-00000043B11 EET Status and Control Ant Model Ant Senial Current Tit Status NO Sector ID Ant Model Ant Senial Current Tit Status IV1 Beam 11 MS-12C90 MS12C90000000043 10.0		12C90-00000043B09						
Antenna Information List Model Ant Serial Current Tit Status I/I Beam 9 MS-12C90 MS12C9000000043 10.0 Normal Display: Beam 9 (Refer as RET 09) RET 09 Infor: R9 (CB9,P17,18) BEAM 9 PORT 17 PORT 18 (+45°) (-45°) RET ID : MS12C90-00000043810 RET 30 Infor: R9 (CB9,P17,18) BEAM 9 PORT 17 PORT 18 (+45°) (-45°) RET ID : MS12C90-00000043810 RET 10 Infor: R10 (CB10,P19,20) Normal BEAM 10 PORT 19 PORT 20 (+45°) (-45°) (-45°) Display: Beam 10 (Refer as RET 10) RET 10 Infor: R10 (CB10,P19,20) BEAM 10 PORT 20 RET ID : MS12C90-00000043B11 Antenna Information List Normal Normal Normal NO Sector ID Ant Model Ant Senial Current Tit Status NO Sector ID Ant Model Ant Senial Current Tit Status NO Sector ID Ant Model Ant Senial Current Tit Status NO<								
NO Sector ID Art Model Art Senal Current Tit Status 1/1 Beam 9 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 9 (Refer as RET 09) RET 09 Info: R9 (CB9,P17,18) BEAM 9 PORT 17 PORT 18 (r45°) (r45°) RET ID : MS12C90-00000043B10 RET status and Control Antenna Information List NO Sector ID Art Model Art Senal Current Tit Status Display: Beam 10 (Refer as RET 10) MS-12C90 RET 10 Info: R10 (CB10,P19,20) BEAM 10 PORT 20 (r45°) (r45°) KET Status and Control Art Model Antenna Information List Normal NO Sector ID Art Model No Sector ID Art Model Normal Normal Normal I/1 Beam 11 (Refer as RET 11) MS12C90000000043 Normal Normal Normal RET 1D : MS12C90-000000043B12								
Beam 9 MS-12C90 MS12C9000000043 10.0 Normal Display: Beam 9 (Refer as RET 09) RET 09 Info: R9 (CB9,P17,18) PORT 17 PORT 18 (+45°) (+45°) (+45°) (+45°) (+45°) RET 1D : MS12C90-00000043B10 Art Model Art Setial Current Tit Status NO Sector ID Art Model Art Setial Current Tit Status I1/1 Beam 10 MS-12C90 MS12C9000000043 10.0 Normal Display: Beam 10 (Refer as RET 10) RET 10 Info: R10 (CB10,P19,20) BEAM 10 PORT 20 (+45°) (+45°) (+45°) NO Sector ID Art Model Art Setial Current Tit Status Normal I1/1 Beam 11 MS-12C90 MS12C90000000043 10.0 Normal Normal Display: Beam 11 (Refer as RET 11) RET 11 Info: R11 (CB11,P21,22) RET 12 PORT 22 (+45°) (+45°) RET 1D : MS12C90-00000043B12 MS12C90000000043 10.0 Normal Normal RET 11 Info: R11 (CB11,P21,22) RET			Ant M	odel	Ant Serial	Current Tilt	Status	
Display: Beam 9 (Refer as RET 09) RET 09 Info: R9 (CB9,P17,18) PORT 17 PORT 18 (+45°) (+45°) (+45°) (+45°) (+45°) (+45°) RET ID: MS12C90-00000043B10 RET Status and Control Antenna Information List Image: Current Tilt Status Image: Current Tilt Statu	1/1							
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Torr 1/ 1011 1/2 Torr 1/2 Art Model Art Serial Display: Beam 10 (Refer as RET 10) BEAM 10 PORT 20 (445°) Art Model Art Serial Current Tit Status Normal BEAM 11 PORT 22 (445°) Art Model Art Serial Current Tit Status		<u>/</u>					BEA	M 9
Torr 1/ 1011 1/2 Torr 1/2 Art Model Art Serial Display: Beam 10 (Refer as RET 10) BEAM 10 PORT 20 (445°) Art Model Art Serial Current Tit Status Normal BEAM 11 PORT 22 (445°) Art Model Art Serial Current Tit Status	Displa	y: Beam 9 (Refer as R	ET 09)	R	ET 09 Info: R9 (CB9.P	17,18)		
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RET Status and Control Antenna Information List Mo Sector ID Art Model Art Serial Current Tit Status II/1 Beam 10 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 10 (Refer as RET 10) RET 10 Info: R10 (CB10,P19,20) BEAM 10 PORT 19 PORT 20 (+45°) (-45°) RET ID : MS12C90-00000043B11 Art Model Art Serial Current Tit Status NO Sector ID Art Model Art Serial Current Tit Status II/1 Beam 11 MS-12C90 MS12C90000000043 10.0 Normal II/1 Beam 11 MS-12C90 MS12C90000000043 10.0 Normal II/1 Beam 11 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 11 (Refer as RET 11) RET 11 Info: R11 (CB11,P21,22) EAM 11 PORT 22 (+45°) (-45°) (-45°) RET 10 : MS12C90-000000043B12 EET 11 Info: R11 (CB11,P21,22) EAM 12							(+45°)	(-45°)
11/1 Beam 10 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 10 (Refer as RET 10) RET 10 Info: R10 (CB10,P19,20) BEAM 10 PORT 19 PORT 20 (+45°) (-45°) RET ID : MS12C90-00000043B11 KET 10 Info: R10 (CB10,P19,20) RET 10 RET ID : MS12C90-00000043B11 KET 10 MS-12C90 MS12C9000000043 NO Sector ID Ant Model Ant Serial Current Tilt Status NO Sector ID Ant Model MS12C90000000043 Normal MS12C90000000043 I/1 Beam 11 MS-12C90 MS12C90000000043 Normal MS12C90000000043 Normal Display: Beam 11 (Refer as RET 11) RET 11 Info: R11 (CB11,P21,22) BEAM 11 PORT 22 RET 1D : MS12C90-00000043B12 KET 512 MS12C90-000000043B12 KET 512 PORT 23 PORT 22 I1/1 Beam 12 MS-12C90 MS12C90000000043 10.0 Normal I1/1 Beam 12 MS-12C90 MS12C90000000043 10.0 Normal II/1 Beam 12 MS-12C90 MS12C900000000043 10.0 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>(1457</th> <th>(45)</th>							(1457	(45)
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Display: Beam 10 (Refer as RET 10) RET 10 Info: R10 (CB10,P19,20) PORT 19 PORT 20 (+45°) (+45°) (+45°) (+45°) (+45°) RET ID : MS12C90-00000043B11 RET Status and Control (+45°) (+45°) (+45°) NO Sector ID Ant Model Ant Serial Current Tilt Status [I1/1 Beam 11 MS-12C90 MS12C9000000043 10.0 Normal [Display: Beam 11 (Refer as RET 11) RET 11 Info: R11 (CB11,P21,22) BEAM 11 PORT 22 (+45°) (-45°) RET ID : MS12C90-00000043B12 EET Status and Control Normal I I Anterna Information List NO Sector ID Ant Model Ant Serial Current Tilt Status NO Sector ID Ant Model Ant Serial Current Tilt Status [I1/1 Beam 12 MS-12C90 MS12C90000000043 10.0 Normal [I2/1 Beam 12 MS-12C90 MS12C90000000043 10.0 Normal [RET Status and Antenna Infor	d Control	Ant M	odel		Current Tilt		
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Display: Beam 10 (Refer as RET 10) RET 10 Info: R10 (CB10,P19,20) PORT 19 PORT 20 (+45°) (+45°) (+45°) (+45°) (+45°) RET ID : MS12C90-00000043B11 RET Status and Control (+45°) (+45°) (+45°) NO Sector ID Ant Model Ant Serial Current Tilt Status [I1/1 Beam 11 MS-12C90 MS12C9000000043 10.0 Normal [Display: Beam 11 (Refer as RET 11) RET 11 Info: R11 (CB11,P21,22) BEAM 11 PORT 22 (+45°) (-45°) RET ID : MS12C90-00000043B12 EET Status and Control Normal I I Anterna Information List NO Sector ID Ant Model Ant Serial Current Tilt Status NO Sector ID Ant Model Ant Serial Current Tilt Status [I1/1 Beam 12 MS-12C90 MS12C90000000043 10.0 Normal [I2/1 Beam 12 MS-12C90 MS12C90000000043 10.0 Normal [RET Status and Antenna Infor NO	d Control rmation List Sector ID				1	Status	
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RET Status and Control Antenna Information List Ant Model Ant Serial Current Tilt Status 1/1 Beam 11 MS-12C90 MS12C90000000043 10.0 Normal BEAM 11 Display: Beam 11 (Refer as RET 11) RET 11 Info: R11 (CB11,P21,22) BEAM 11 PORT 22 (+45°) RET ID : MS12C90-00000043B12 RET Status and Control Antenna Information List NO Sector ID Ant Model Ant Serial Current Tilt Status 1/1 Beam 12 MS-12C90 MS12C900000000043 10.0 Normal Display: Beam 12 (Refer as RET 12) RET 12 Info: R12 (CB12,P23,24)	RET Status and Antenna Infor NO 1/1	d Control rmation List Sector ID Beam 10	MS-12	C90	MS12C90000000043	10.0	Status Normal BEAN PORT 19	Л 10 РОКТ 20
RET Status and Control Antenna Information List Ant Model Ant Serial Current Tilt Status 1/1 Beam 11 MS-12C90 MS12C90000000043 10.0 Normal BEAM 11 Display: Beam 11 (Refer as RET 11) RET 11 Info: R11 (CB11,P21,22) BEAM 11 PORT 22 (+45°) RET ID : MS12C90-00000043B12 RET Status and Control Antenna Information List NO Sector ID Ant Model Ant Serial Current Tilt Status 1/1 Beam 12 MS-12C90 MS12C900000000043 10.0 Normal Display: Beam 12 (Refer as RET 12) RET 12 Info: R12 (CB12,P23,24)	RET Status and Antenna Infor NO 1/1	d Control rmation List Sector ID Beam 10	MS-12	C90	MS12C90000000043	10.0	Status Normal BEAN PORT 19	Л 10 РОКТ 20
Antenna Information List NO Sector ID Ant Model Ant Serial Current Tilt Status 11/1 Beam 11 MS-12C90 MS 12C90000000043 10.0 Normal BEAM 11 Display: Beam 11 (Refer as RET 11) RET 11 Info: R11 (CB11,P21,22) BEAM 11 PORT 21 PORT 22 (+45°) RET 11 Info: R11 (CB11,P21,22) BEAM 11 PORT 21 PORT 22 (+45°) RET 11 Info: R11 (CB11,P21,22) BEAM 11 PORT 22 (+45°) Current Tilt Status and Control Antenna Information List NO Sector ID Ant Model Ant Serial Current Tilt Status [1/1 Beam 12 MS-12C90 MS 12C90000000043 10.0 Normal Display: Beam 12 (Refer as RET 12) RET 12 Info: R12 (CB12,P23,24)	RET Status and Antenna Infor NO 1/1 Display	d Control rmation List Sector ID Beam 10 Y: Beam 10 (Refer as F	MS-12	C90	MS12C90000000043	10.0	Status Normal BEAN PORT 19	Л 10 РОКТ 20
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II/1 Beam 11 MS-12C90 MS 12C90000000043 10.0 Normal Display: Beam 11 (Refer as <u>RET 11</u>) RET 11 Info: R11 (CB11,P21,22) BEAM 11 PORT 21 PORT 22 (+45°) (-45°) RET ID : MS12C90-00000043B12 RET Status and Control Antenna Information List NO Sector ID Art Model Art Serial [1/1 Beam 12 MS-12C90 MS12C90000000043 10.0 Normal BEAM 12 PORT 23 PORT 24	RET Status and Antenna Infor NO 11/1 Display RET ID : MS RET Status and	d Control rmation List Sector ID Beam 10 /: Beam 10 (Refer as F 12C90-00000043B11 d Control	MS-12	C90	MS12C90000000043	10.0	Status Normal BEAN PORT 19	Л 10 РОКТ 20
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RET 11 Info: R11 (CB11,P21,22) PORT 21 PORT 22 (+45°) RET 11 Info: R11 (CB11,P21,22) PORT 21 PORT 22 (+45°) RET 11 Info: R11 (CB11,P21,22) PORT 21 PORT 22 (+45°) RET ID : MS12C90-000000043B12 RET Status and Control Antenna Information List NO Sector ID Ant Model Ant Serial Current Tilt Status NO Sector ID Ant Model Ant Serial Current Tilt Status Display: Beam 12 MS-12C90 MS 12C 900000000043 10.0 Normal BEAM 12 Display: Beam 12 (Refer as RET 12) RET 12 Info: R12 (CB12,P23,24)	RET Status and Antenna Infor NO 11/1 Display RET ID : MS RET Status and Antenna Infor NO	d Control rmation List Sector ID Beam 10 /: Beam 10 (Refer as F 12C90-00000043B11 d Control mation List Sector ID	MS-12 RET 10)	C90	MS12C90000000043 RET 10 Info: R10 (CB10 Ant Serial	10.0 0,P19,20) Current Tilt	Status Normal BEAN PORT 19 (+45°) Status	Л 10 РОКТ 20
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I/1 Beam 12 MS-12C90 MS12C90000000043 10.0 Normal Display: Beam 12 (Refer as <u>RET 12</u>) <u>RET 12 Info:</u> R12 (CB12,P23,24) BEAM 12	RET Status and Antenna Infor NO II/I Display RET ID : MS RET Status and Antenna Infor NO II/I Display RET ID : MS RET ID : MS	d Control rmation List Sector ID Beam 10 (2): Beam 10 (Refer as F 12C90-00000043B11 d Control mation List Sector ID Beam 11 (Refer as F 12C90-00000043B12 d Control	MS-12 <u>RET 10)</u> Ant Ma MS-12	C90	MS12C90000000043 <u>RET 10 Info:</u> R10 (CB1) Ant Serial MS12C90000000043	10.0 0,P19,20) Current Tilt 10.0	Status Normal BEAN PORT 19 (+45°) Status Normal BEAN PORT 21	Λ 10 PORT 20 (-45°) Λ 11 PORT 22
Display: Beam 12 (Refer as <u>RET 12</u>) RET 12 Info: R12 (CB12,P23,24) BEAM 12 PORT 23 PORT 24	RET Status and Antenna Infor NO II/I Display RET ID : MS ET Status and Antenna Infor NO II/I Display RET ID : MS RET Status and Antenna Infor	d Control rmation List Sector ID Beam 10 (: Beam 10 (Refer as F 12C90-00000043B11 d Control mation List Sector ID Beam 11 (Refer as F 12C90-00000043B12 d Control mation List	MS-12 <u>RET 10)</u> Ant Ma MS-12 <u>RET 11)</u>	C90 <u>F</u> Odel C90 <u>F</u>	MS12C90000000043 <u>RET 10 Info:</u> R10 (CB10 Ant Serial MS12C90000000043 <u>RET 11 Info:</u> R11 (CB1:	10.0 0,P19,20) Current Tilt 10.0 1,P21,22)	Status Normal BEAN PORT 19 (+45°) Status Normal BEAN PORT 21 (+45°)	Λ 10 PORT 20 (-45°) Λ 11 PORT 22
Display: Beam 12 (Refer as <u>RET 12</u>) <u>RET 12 Info:</u> R12 (CB12,P23,24) PORT 23 PORT 24	RET Status and Antenna Infor NO II/I Display RET ID : MS ET Status and Antenna Infor NO II/I Display RET ID : MS RET Status and Antenna Infor NO	d Control mation List Sector ID Beam 10 /: Beam 10 (Refer as F 12C90-00000043B11 d Control mation List Sector ID Beam 11 y: Beam 11 (Refer as F 12C90-00000043B12 d Control mation List Sector ID	MS-12 <u>RET 10)</u> Ant Ma MS-12 <u>Ant Ma</u> <u>Ant Ma</u>	C90 <u>F</u> odel C90 <u>F</u> odel	MS12C90000000043 <u>RET 10 Info:</u> R10 (CB10 Ant Serial MS12C90000000043 <u>RET 11 Info:</u> R11 (CB1: Ant Serial Ant Serial	10.0 0,P19,20) Current Tilt 10.0 1,P21,22) Current Tilt	Status Normal BEAN PORT 19 (+45°) Status Normal BEAN PORT 21 (+45°)	Λ 10 PORT 20 (-45°) Λ 11 PORT 22
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Page 9	ET Status and Antenna Infor NO 1/1 Display ET ID : MS ET Status and Intenna Infor NO 1/1 ET ID : MS ET Status and Interna Infor NO 1/1	d Control mation List Sector ID Beam 10 /: Beam 10 (Refer as F 12C90-00000043B11 d Control mation List Sector ID Beam 11 y: Beam 11 (Refer as F 12C90-00000043B12 d Control mation List Sector ID Beam 12	MS-12 RET 10) Ant Ma MS-12a Ant Ma RET 11) Ant Ma MS-12a Ant Ma	C90 <u>F</u> odel C90 <u>F</u> odel	MS 12C 90000000043 RET 10 Info: R10 (CB10 Ant Serial MS 12C 90000000043 RET 11 Info: R11 (CB1: Ant Serial MS 12C 90000000043	10.0 0,P19,20) Current Tilt 10.0 1,P21,22) Current Tilt 10.0	Status Normal BEAN PORT 19 (+45°) (+45°) Status Normal Status Normal BEAN PORT 21 (+45°) Status Normal	A 10 PORT 20 (-45°) (-45°) A 11 PORT 22 (-45°) A 12 PORT 24 (-45°)

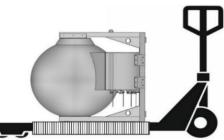
6.00 TRANSPORTATION / INSTALLATION

6.10 Transportation (From Point to Point)

Strictly comply to the Local authority and regulatory on Workplace Safety and Health Control and Measure when moving and transportation of large or heavy equipment, appropriate material handling machine should be use.

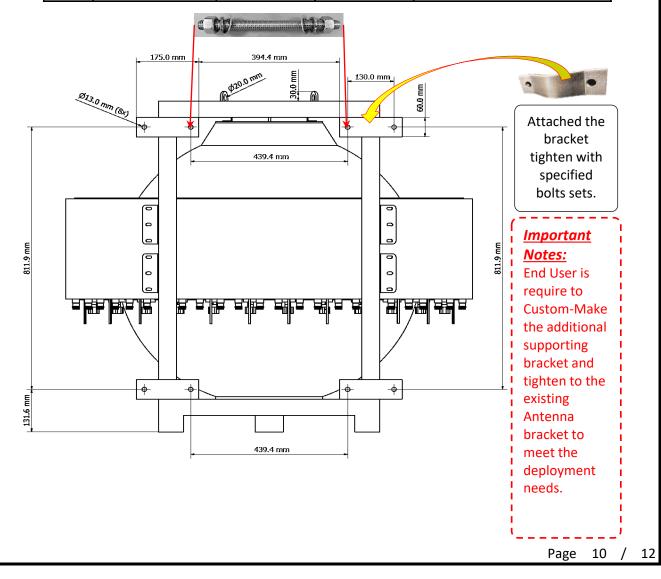
(Risk Assessment apply for Forklift or Pallet Truck Lifting)





6.20 Bracket Mounting

ltem	Lens/Types	Holes Size	Bracket Qty	Bolt & nuts sets
1	30cm to 120cm	Ø13mm x 8	4	M12 x 15cm=8sets



6.30 Installation using a crane

Strictly comply to the local authority and regulatory on Workplace Safety and Health Control and Measure when performing lifting of large or heavy equipment, appropriate material handling machine should be used and only certified personnel should perform the task. (Risk Assessment requirement applies for both Up-Lifting and Down-Lifting.)

6.31 Lifting the Antenna

The antenna has 2 hook points installed on the top frame (located slightly behind the center of the sphere). These hooks are designed at the center of gravity point of the antenna. A cable, rope can be securely fastened to the hooks and the antenna can be lifted using a crane as pictured below.

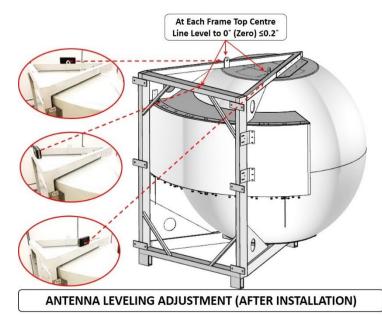


6.40 Antenna Installation

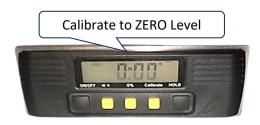
With reference to "<u>Bracket Mounting" Procedure</u>, End user is required to Custom-Make the additional supporting bracket and tighten it to the existing Antenna bracket to meet the deployment needs.

6.41 Antenna Levelling

After the Antenna is mounted to the bracket, it is required to be adjusted to 0° (Zero Degree) with <u> $\leq 0.2^{\circ}$ </u> on 3 sides of the frame top level.(Rear, Right & Left=As shown in picture)



6.42 Digital Level Gauge Calibration



6.43 Adjustment Requirement

