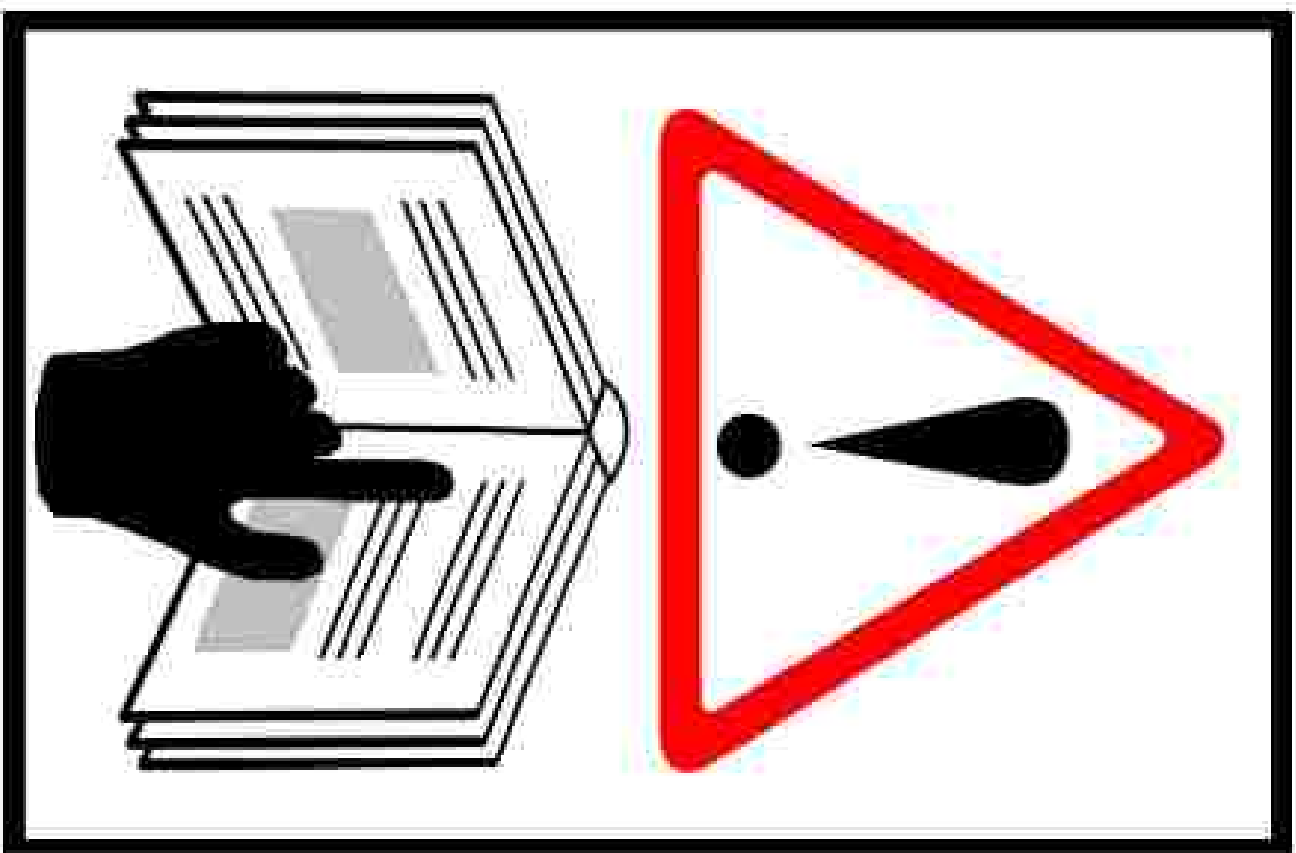




IMPORTANT!

INSTALLATION

INSTRUCTIONS

READ THIS

MANUAL FULLY

BEFORE UNPACKING

AND ASSEMBLING

THE ANTENNA



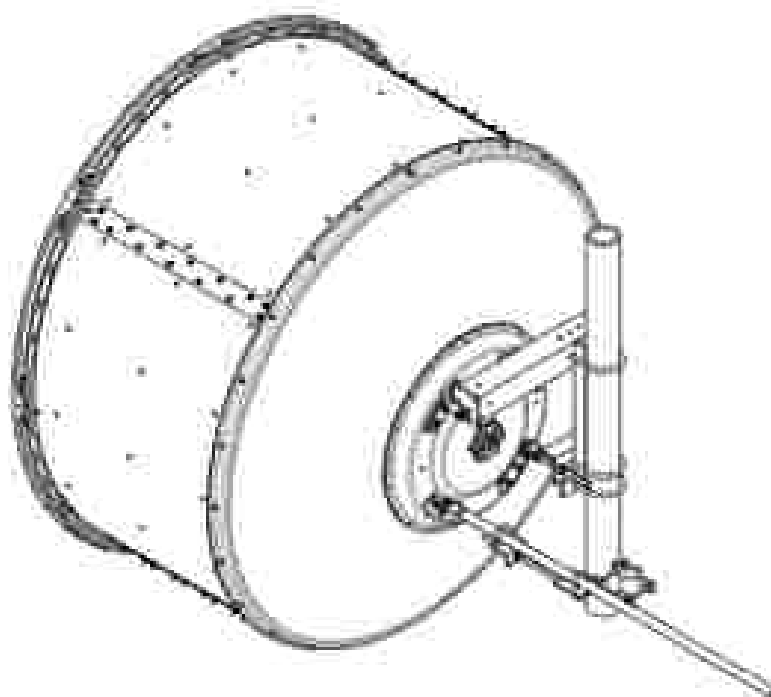
HX6 & USX6 6ft (1.8m) Antennas

File# 773330 2008-1-27

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Table 1

This document is for the following:
HX6/USX6-*** 1.8m ANTENNA



SAFETY

ANTENNA INSTALLATION, MAINTENANCE OR REMOVAL MUST BE PERFORMED BY QUALIFIED EXPERIENCED INSTALLATION TEAM.

It is essential that all appropriate national and local safety regulations be strictly observed to ensure the safety of personnel and to prevent damage to the equipment. CommScope cannot accept responsibility for accidents resulting from non-compliance with such regulations.

The Antenna is designed to attach to a vertical tower pipe of diameter 115mm - 120mm
The mount provides adjustment ranges of $\pm 5^\circ$ fine elevation and $\pm 180^\circ$ ($\pm 15^\circ$ Fine) azimuth

Always read the entire manual before commencing installation.

WARNING

Do not use any installation components (screws, nuts, etc.) other than those enclosed with the equipment or recommended by Commscope.

Learning Objectives

Call after Service 24 hours
 800-333-3333 ext. 1000
 or 800-333-3333
 or 800-333-3333
 or 800-333-3333

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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2000年12月29日

These findings are consistent with previous research. For example, in a study by *Wang et al.* (2008), it was found that the use of social media in the workplace is positively related to organizational commitment and job satisfaction. Similarly, *Wang et al.* (2010) found that the use of social media in the workplace is positively related to organizational commitment and job satisfaction. These findings suggest that the use of social media in the workplace is a positive practice that can lead to increased organizational commitment and job satisfaction.

[illegible][illegible]

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SECTION	TITLES
1	INTRODUCTION
2	SAFETY INSTRUCTIONS Including Introduction, Standards, Safety Requirements, Safety Symbols, Definitions and Hazards
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4	UNPACKING Including Unpacking of antenna parts
5	ASSEMBLY OF REFLECTOR TO SHIELD Including how to assemble the reflector to the shield in the correct orientation
6	FEED ATTACHMENT Including attaching the feed
7	RADOME ATTACHMENT AND ALIGNMENT Including how to assemble the radome to the shield in the correct orientation
8	MOUNT ATTACHMENT AND ALIGNMENT Including Basic alignment, Attaching the antenna to the pole, Fitting the mount, Elevation alignment, Azimuth alignment and tightening fasteners instruction
9	GENERAL INFORMATION Including maintenance and cleaning instructions

INTRODUCTION

This document provides assembly instructions for a HX6/USX6 antenna.

The antenna can be mounted to the left or to the right of the supporting structure.

These instructions describe how to mount the antenna to the left of the supporting structure; however instructions showing the antenna mounted to the right of the supporting structure are included where appropriate. It is recommended that at least 2 persons assemble the antenna.

SAFETY INSTRUCTIONS



NOTE:

Reduce the risk of accidents by studying all the instructions carefully before starting working.

The safety information in this document presupposes that any person performing work on CommScope products or systems has the education, training and competence required to perform the task correctly.

SAFETY REQUIREMENTS

The safety requirements in the following sections must be followed to avoid personal injury and damage to tangible property.

It is the responsibility of the installer to ensure that local regulations and the safety instructions in this document are known and followed.

SERVICE PERSONNEL

Installation and service must be carried out by authorized personnel having the appropriate technical training and experience necessary to be cognizant of hazards during installation and service, and of measures to minimize any danger to themselves or any other person.

SAFETY SYMBOLS & DEFINITIONS

HOISTING



WARNING!

Falling objects can cause accidents.

- Use only tested and approved hoisting equipment in accordance with the instructions supplied with the equipment. Appropriately trained personnel must operate the hoisting device.
- Always hoist from a suitable location.
- Never walk under hoisted loads.
- Follow local regulations for safety clothing and safety equipment for hoisting or moving goods.

WORKING AT HEIGHTS



WARNING!

Some working areas involve the risk of accidents caused by falling or by falling objects.

SAFETY REGULATIONS

Use local safety regulations where these are mandatory. The safety instructions in this document shall be used as a supplement to the local regulations.

In case of conflict between the safety instructions in this manual and the local safety regulations, the local safety regulations shall prevail if these are mandatory. If the local regulations are not mandatory the safety instructions in this manual shall prevail.

INSTALLATION HARDWARE

Do not use any installation components (for example screws and nuts) other than those enclosed with the equipment or recommended by CommScope.



Use protective wear to avoid skin contact with conductive grease. Keep away from mouth. Wash thoroughly after use with liberal amounts of liquid soap and rinse with water. Do not store open near food or food substances.
Contents: Oil, clay & zinc dust.

INSTALLATION PROCEDURES & TOOLS

The installation procedures in this manual must be followed. Make sure that:

- Working instructions are followed.
- Recommended tools are used.
- Adequate safety devices are used.
- The risk of falling and falling objects is known.
- All hardware is tightened to the torques specified $\pm 5\%$. The integrity of the antenna depends on all fasteners being tightened correctly.

ANNUAL INSPECTION

Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance and condition of equipment.

Table 1. Supplied Equipment and Tools

Item	Qty		Description	Contained in Kit Part No
	HX8	USX8		
A	1	1	Reflector	
B	1	1	Shield Set	
C	1	1	Radome	
D	1	1	Feed (frequency dependant)	
	D1		Feed Hardware Kit	Contained in D
		4	M6 x 20lg SHCS, ast, pass	
		4	M6 Lock Washer, ast, pass	
		1	Conductive Grease (tube)	
		2	Gloves	
	D2		Vertex Plate Kit	Contained in D
		2	Vertex Plate	
		4	M4 x 10lg SHCS, ast, pass	
E	1	1	Elevation Pivot Bar - Top	
F	1	1	Vertical Support Channel	
G			Mount Kit	
	G1	1	Elevation Pivot Bar - Bottom	Contained in G
	G2	3	Spacer Plate	Contained in G
	G3a	1	Elevation Pivot Bracket - Top Right	Contained in G
	G3b	1	Elevation Pivot Bracket - Top Left	Contained in G
	G4	1	Elevation Pivot bracket - Bottom	Contained in G
	G5	1	Safety Bracket	Contained in G
H			Shield and Mount Hardware Kit	
	H1		Shield Hardware Kit	Contained in H
		82	M6 x 20 Hex Hd Screw, ast, pass	
		124	M6 Washer, ast, pass	
		82	M6 Lock Washer, ast, pass	
		82	M6 Nut, ast, pass	
	H2	40	M6 x 25 Skt Hd Cap Screw, ast, pass	
		40	M6 Large Washer, ast, pass	
J			Mount Hardware Kit	Contained in H
	J1	3	M18 U-Bolt c/w Nuts & Washers	
	J2	4	M12 x 40lg Carriage Bolt	
		4	M12 Nut, stl, galv	
		4	M12 Lock Washer, stl, galv	
		4	M12 Washer, stl, galv	
		4	M18 Washer, stl, galv	
	J3	1	M18 Eye Bolt, stl, galv	
		2	M18 Washer, stl, galv	
		2	M18 Nut, stl, galv	
		1	M12 x 48lg Hex Hd Screw, stl, galv	
		1	M12 Lock Washer, stl, galv	
		1	M12 washer, stl, galv	
		1	M12 Nut, stl, galv	
	J4	2	M18 x 45lg Hex Hd Screw, stl, galv	
		2	M18 Lock Washer, stl, galv	
		4	M18 Washer, stl, galv	
		2	M18 Nut, stl, galv	
	J5	6	M10 x 35lg Hex Hd Screw, ast, pass	
		6	M10 Lock Washer, ast, pass	
		6	M10 Washer, ast, pass	

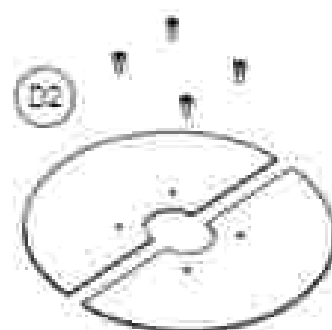
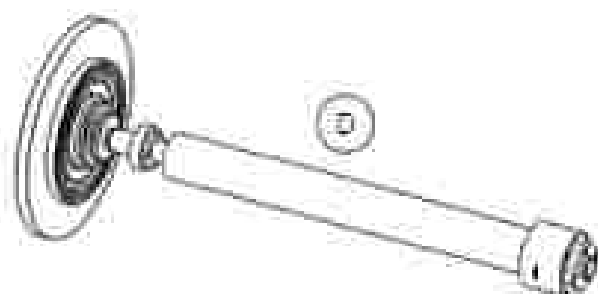
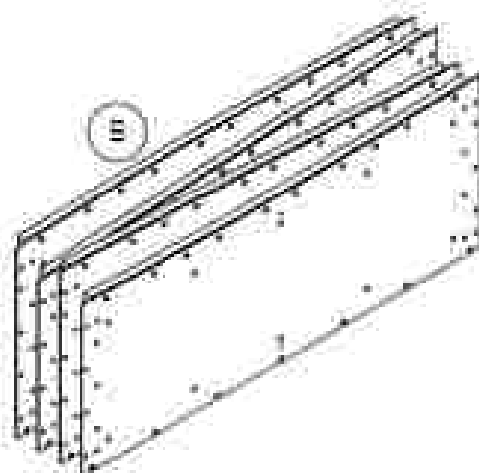
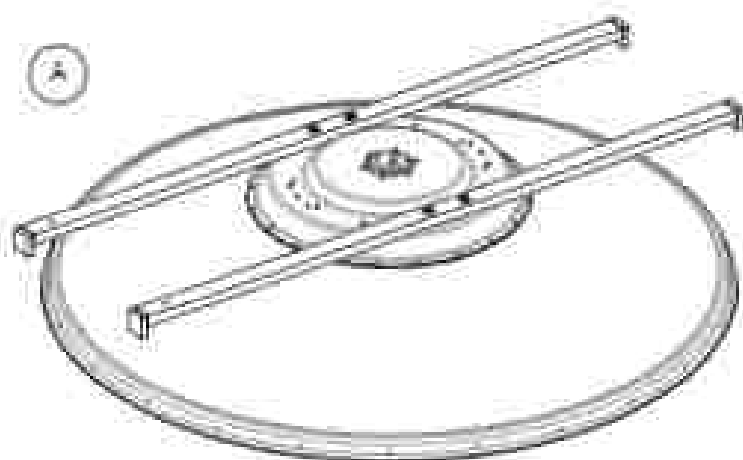
Table 1 Supplied Equipment and Tools

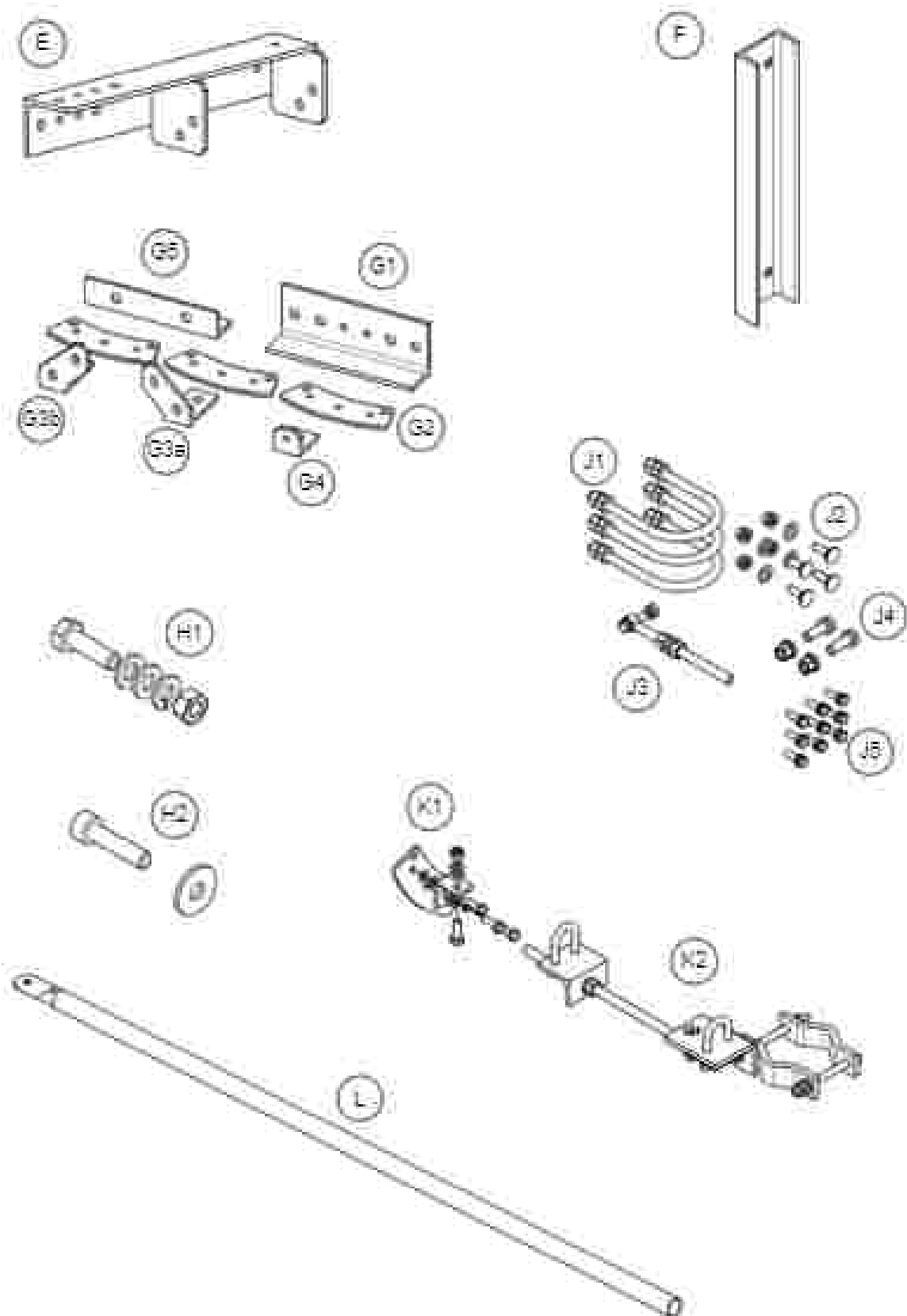
Item		Qty		Description	Contained in Kit Part No
K		HXM	USX8	Strut Hardware Kit	Contained in H
	K1	1	1	Spacer Plate	
		1	1	Brace Rod Attachment Bracket	
		1	1	M12 X 35lg Hex Hd Screw, stl, galv	
		1	1	M12 Lock Washer, stl, galv	
		1	1	M12 Washer, stl, galv	
		3	3	M10 x 35lg Hex Hd Screw, stl, pass	
		3	3	M10 Lock Washer, stl, pass	
		3	3	M10 Washer, stl, pass	
	K2	1	1	Azimuth Adjuster (supplied assembled)	Contained in H
L		1	1	Brace Rod	

Tools

TOOL REQUIREMENTS

Tools Required	Bolt Diameter in MM				
	M4	M6	M10	M12	M16
Ring and Open spanner (A/F)		10mm	17mm	19mm	24mm
Torque Wrench	2.5 - 95Nm				
Sockets (A/F)		10mm	17mm	19mm	24mm
Allen Key (A/F)	3mm	5mm	8mm		
General Toolbox					





Instructions for unpacking crate:

Wire bound crate:

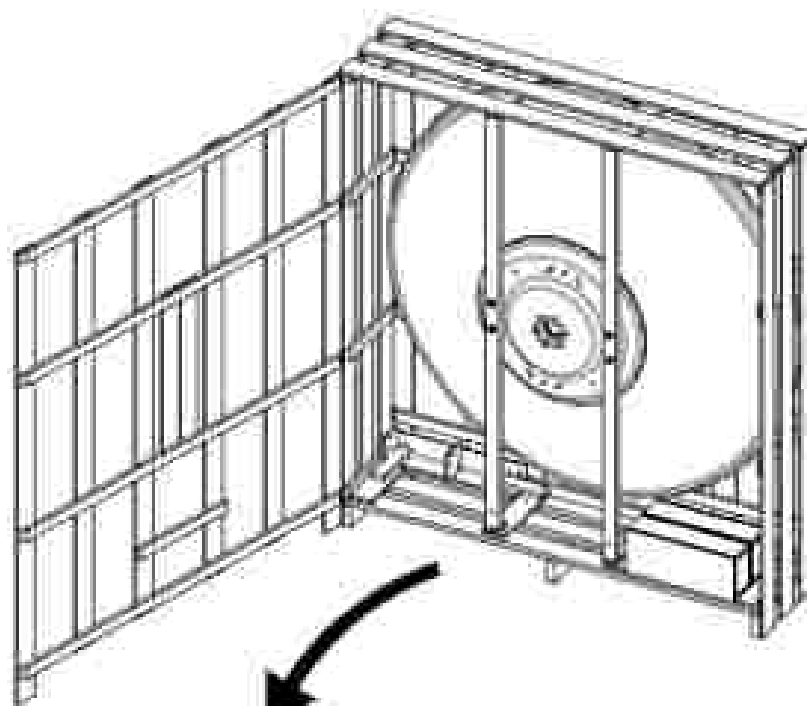
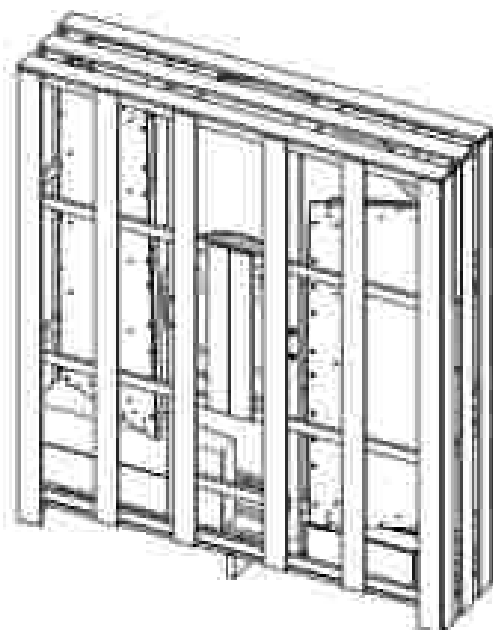
1. Release wire tabs at one side of the crate.
2. The crate panel will hinge open along the opposite side from the released wire tabs.

Nailed crate:

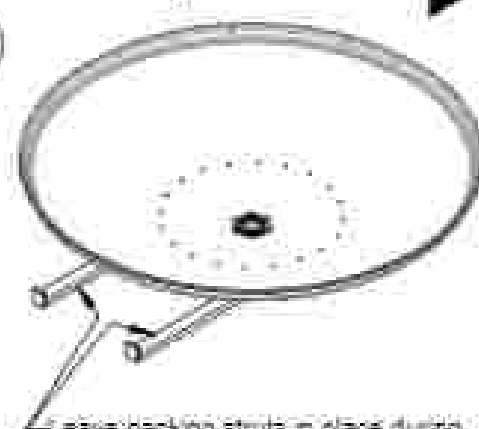
1. Carefully remove panel to allow access to shields and reflector struts.

Remove components:

3. Remove shields, strut and integration/opt kit.
4. Remove nails from top of packing strut, the reflector can then be hinged backwards along the bottom edge and removed from the crate, handle reflector **CAREFULLY** at all times.
5. Leave reflector attached to the backing struts until instructed to remove.
6. Remove radome and feed.
7. Open kit boxes and remove components as required.



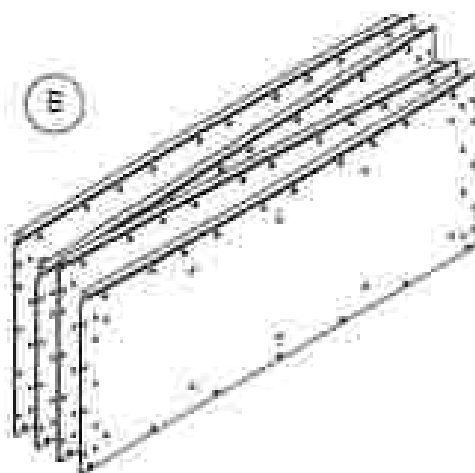
(A)



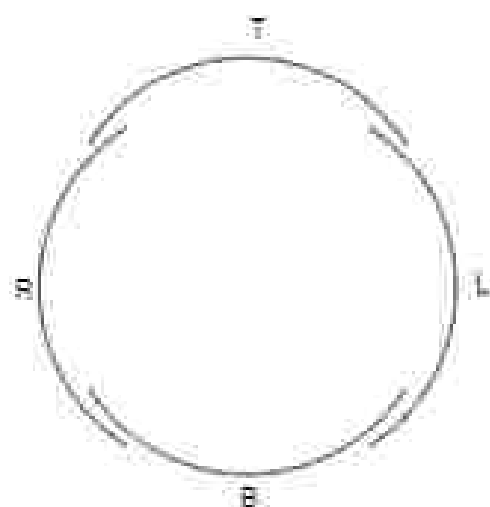
Leave packing struts in place during assembly until directed to remove.
(omitted on subsequent views for clarity)



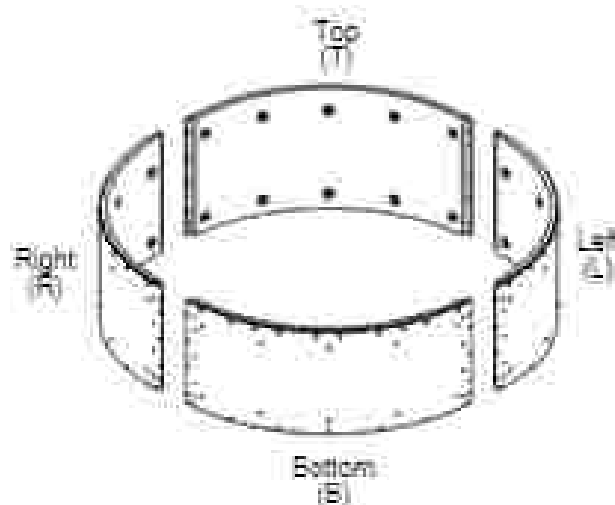
Handle reflector
CAREFULLY at
all times



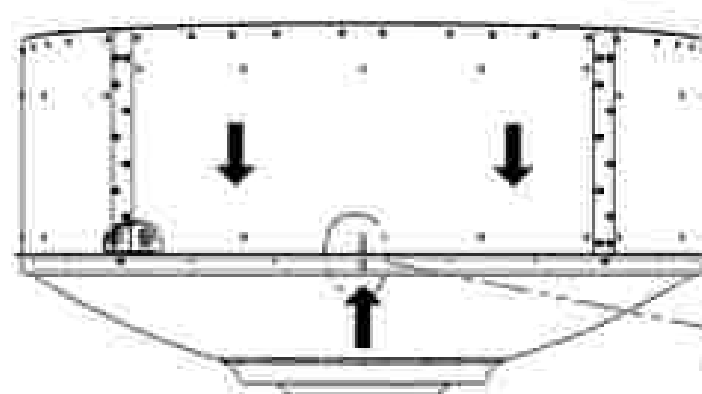
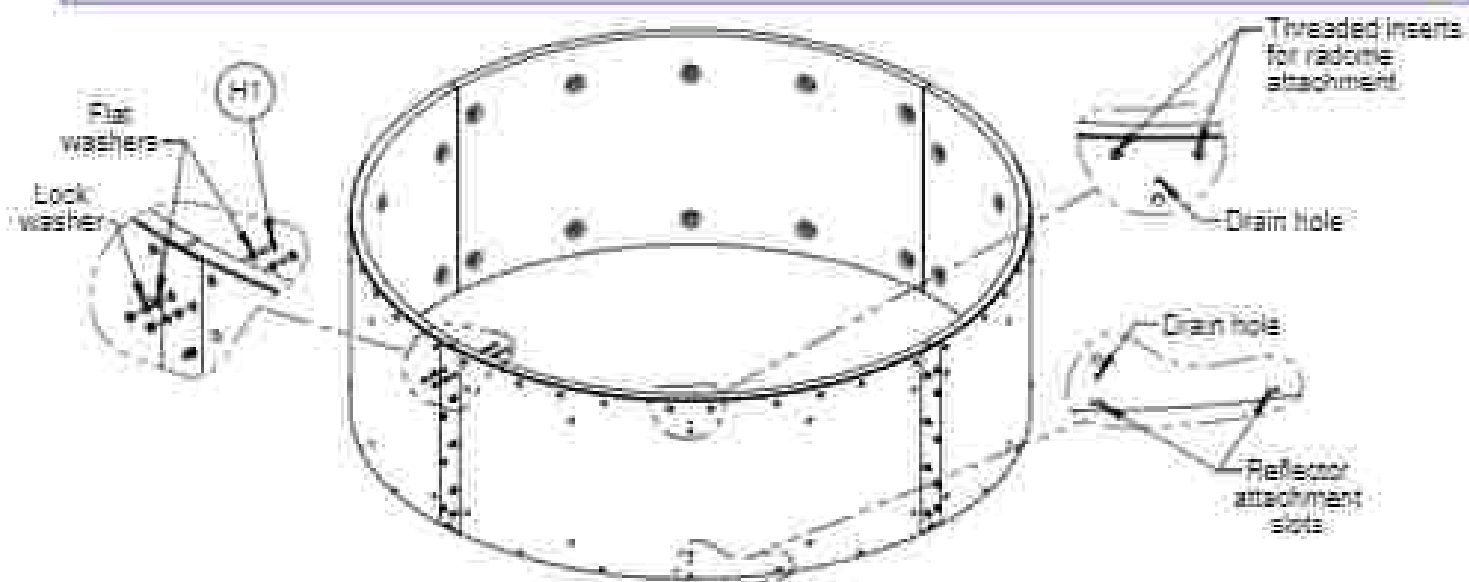
Shield assembly sequence



ATTENTION
shield overlap
arrangement

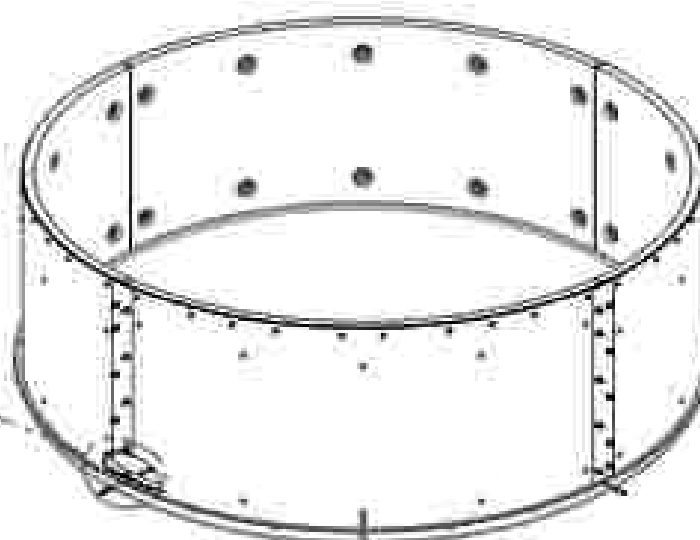
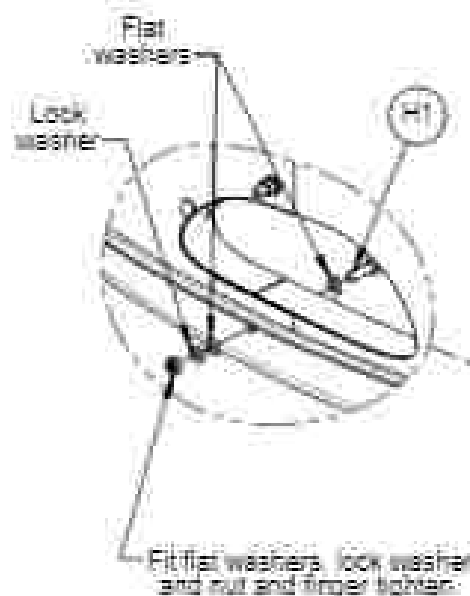
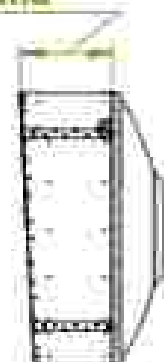


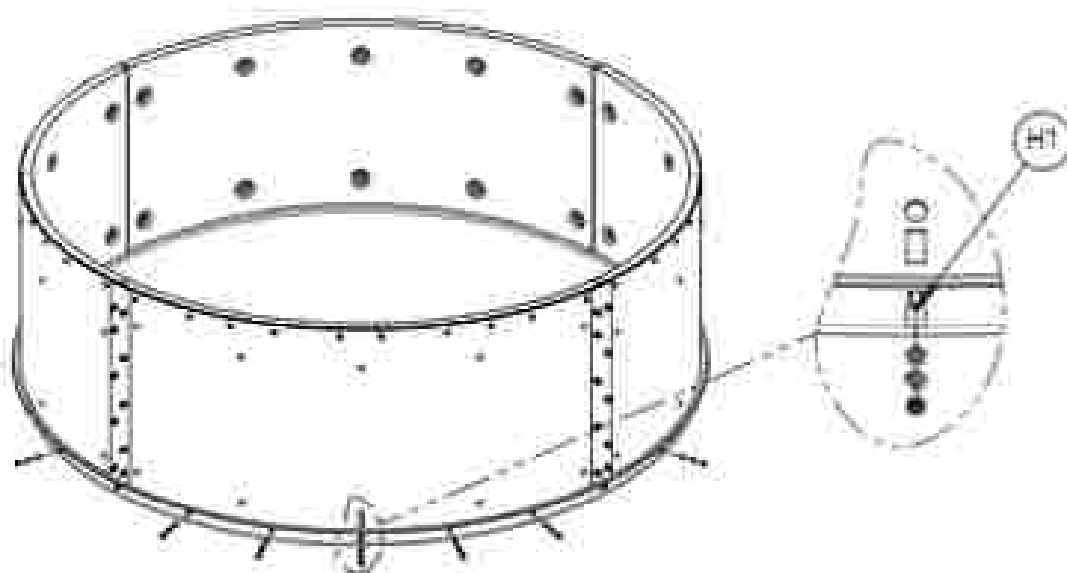
Antenna shield
arrangement



Insert shield in to reflector so that attachment slots align with rim holes in reflector

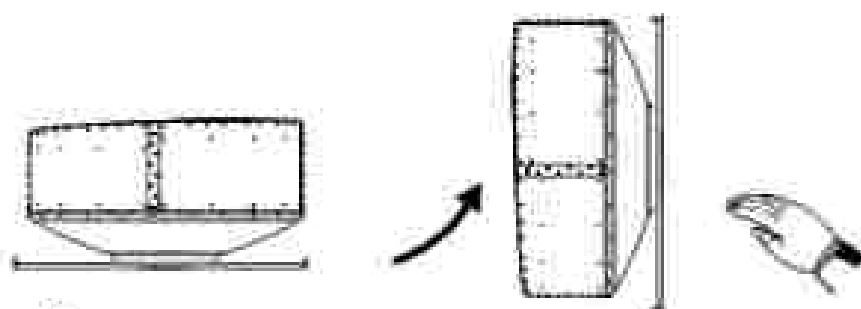
Ensure highest side of shield set is aligned to top of antenna





Fit bolts, washers, lock washers and nuts to remaining holes of assembly and tighten.

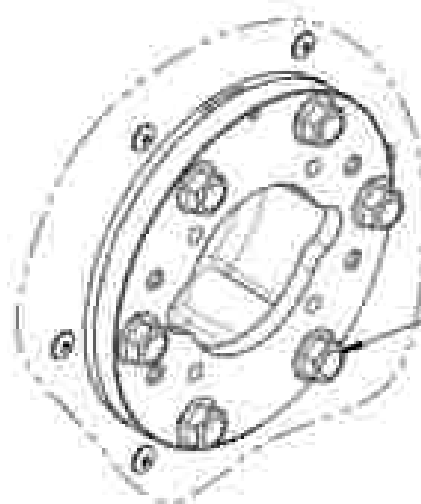
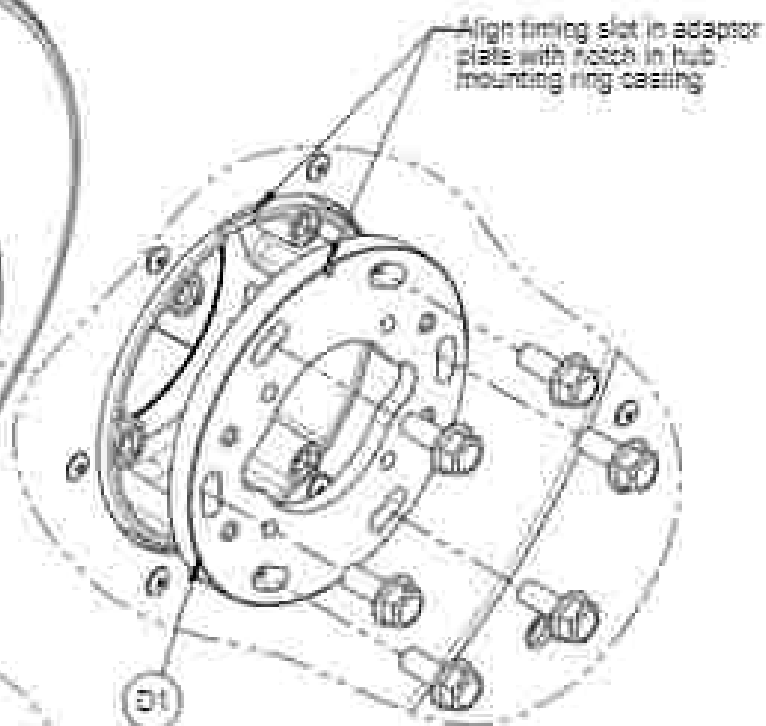
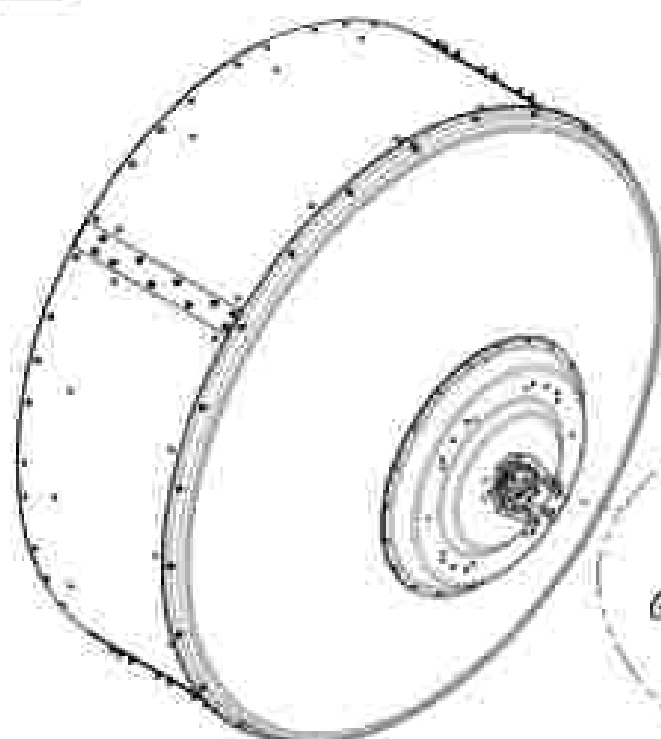
Tighten all shield and segment fastenings to 7.7Nm ±5%.



Prior to feed attachment, carefully tilt antenna upright using packing struts and hold in position. Do not apply excessive weight to antenna assembly.



REFER TO SAFETY NOTE ON PAGE 5



Finger tighten 6-off flanged screws (fully tightened on final alignment)

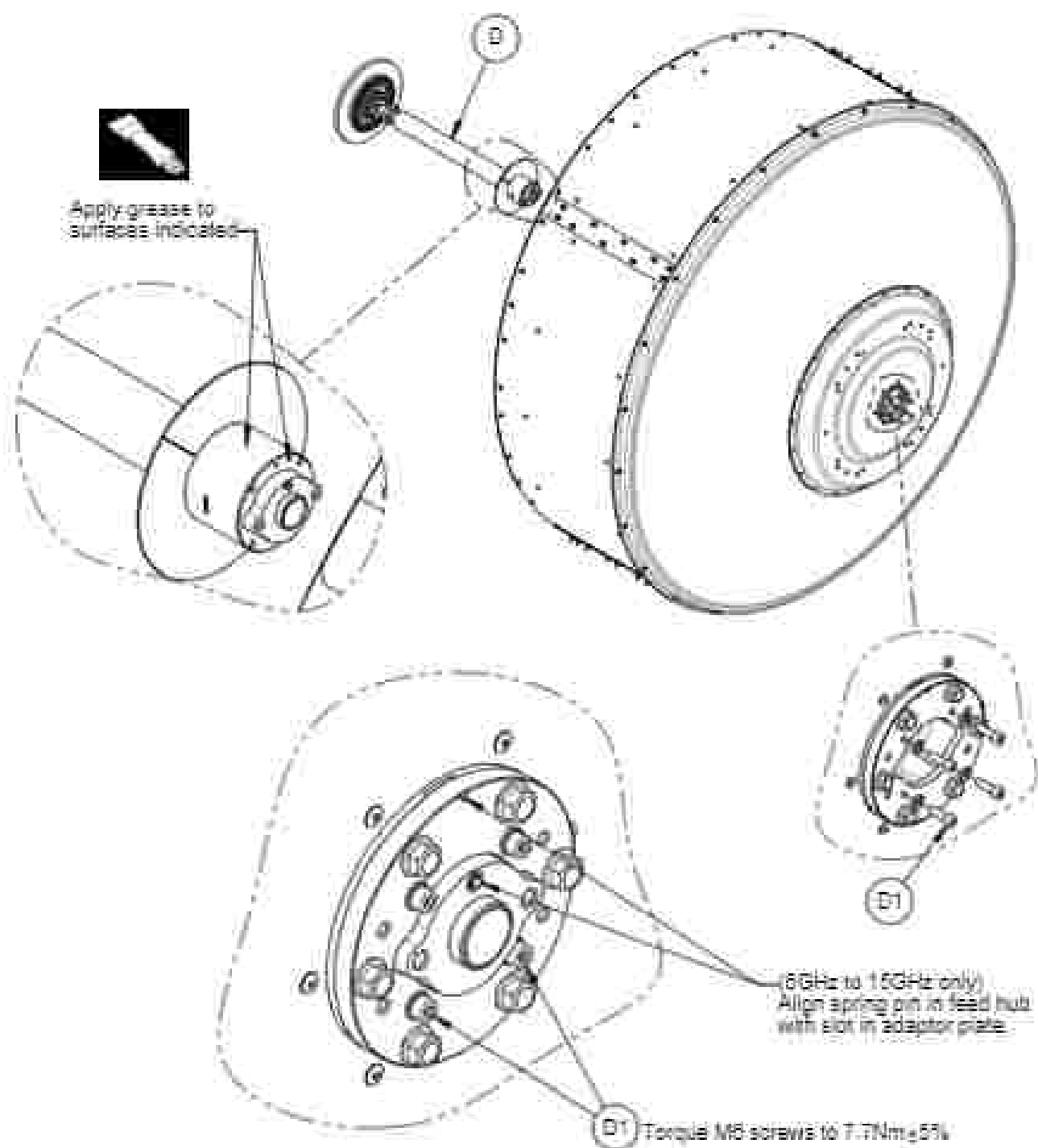
OMT Plate Assembly

The diagram illustrates the assembly of the OMT Plate. It shows a central shaft with a large circular plate at one end and a smaller circular plate at the other. A central nut is shown being tightened onto the shaft. A callout indicates: "Tighten to 215Nm ± 5%".

Key components and instructions are labeled:

- Do not remove foam absorber disc**: Points to the disc on the left side of the shaft.
- Do not remove foam absorber wrap**: Points to the wrap on the right side of the shaft.
- Do not remove protective tape until ready to install OMT**: Points to the tape on the right side of the shaft.

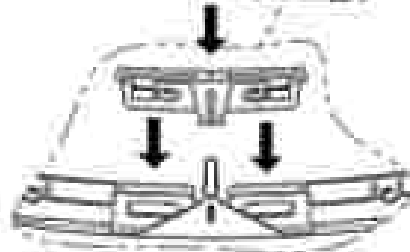
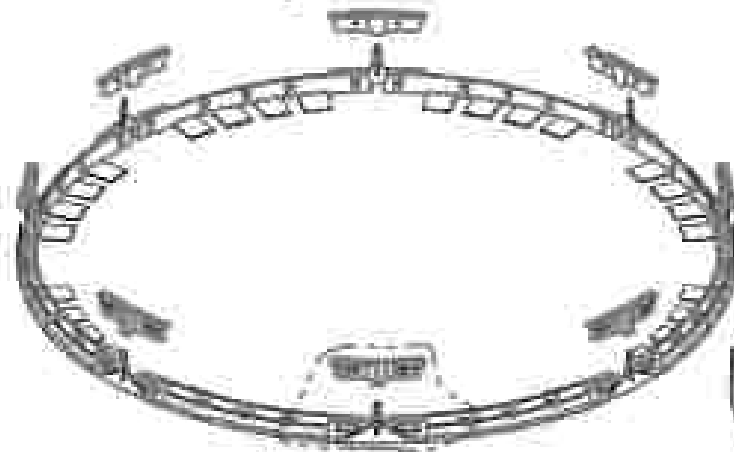
Leave the feed in it's protective packaging until ready to install in antenna.



After assembly, remove excess grease from internal reflector surface.



After feed attachment, carefully lay antenna flat.

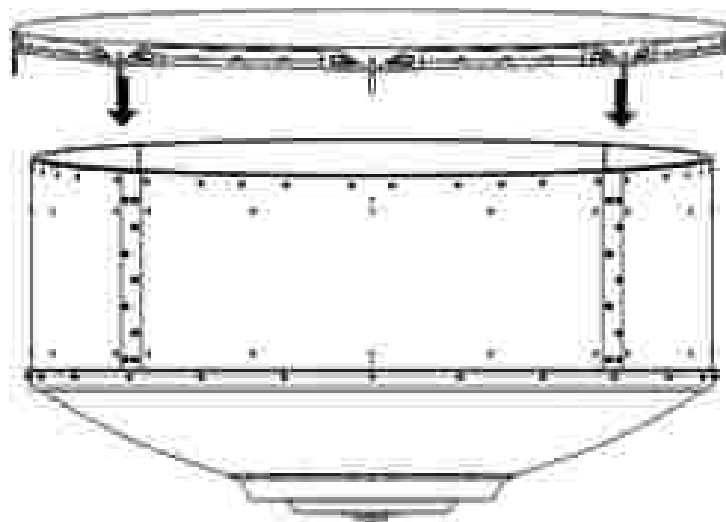


Unfold radome on to a clear, flat and dry surface and assemble radome rim tensioners at 5 plates.



Ensure radome tensioners are pressed fully home. (When fully pressed home, tensioners are no longer loose or removable)

Lift radome and secure tabs over hooks

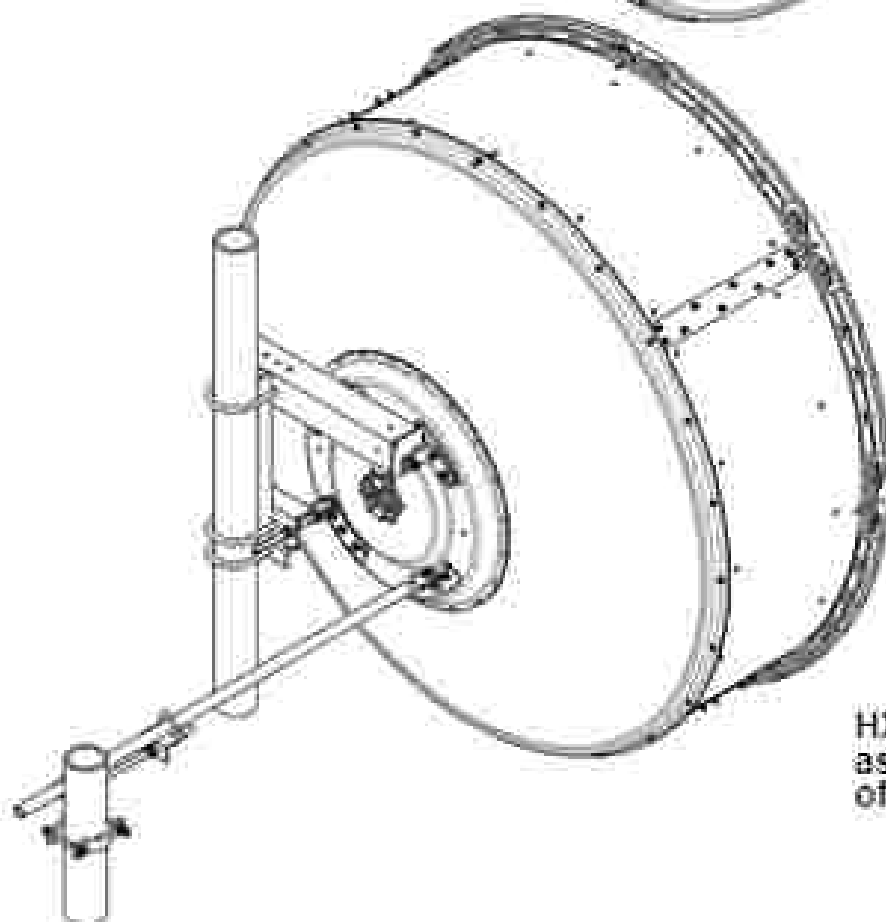
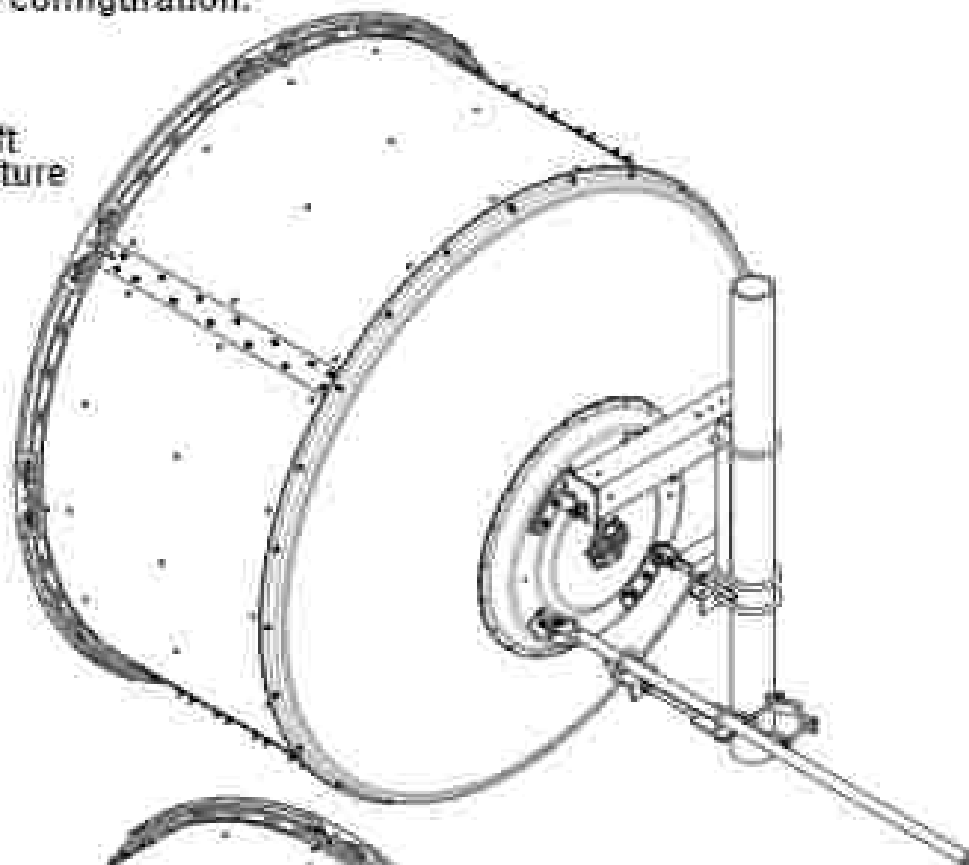


H2 Torque to 7.7Nm $\pm$ 5%

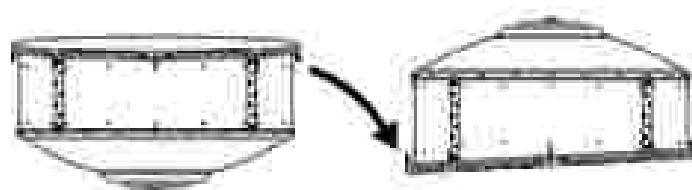
Assemble radome to shields with screws and washers

Prior to assembly of mount to antenna, determine the desired installation configuration.

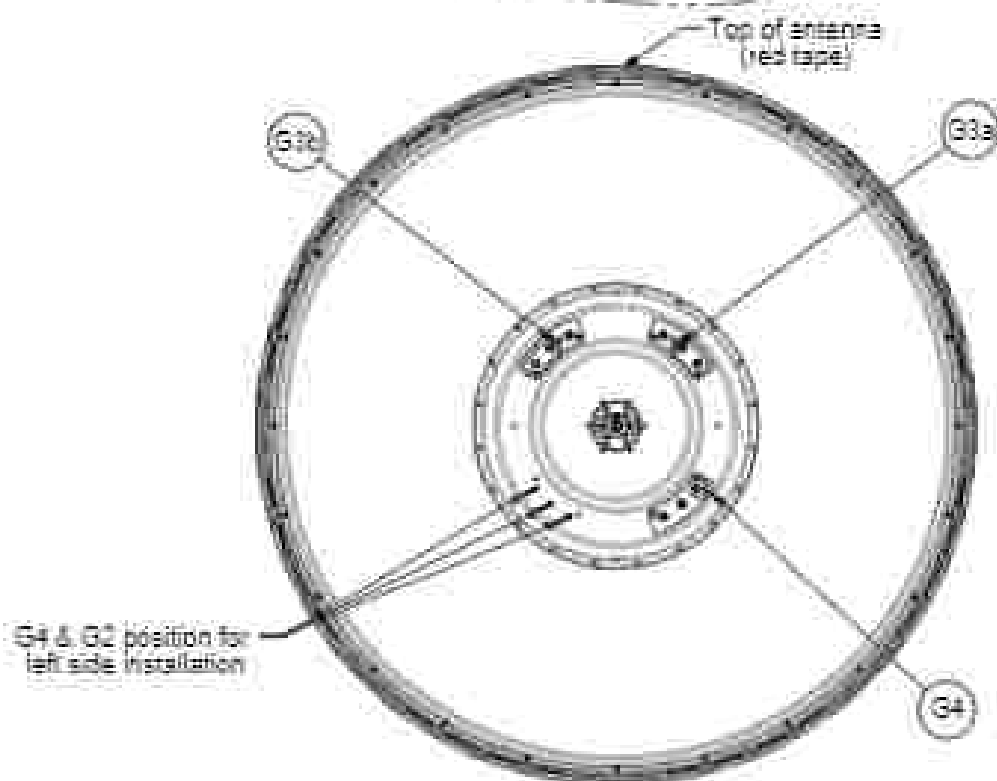
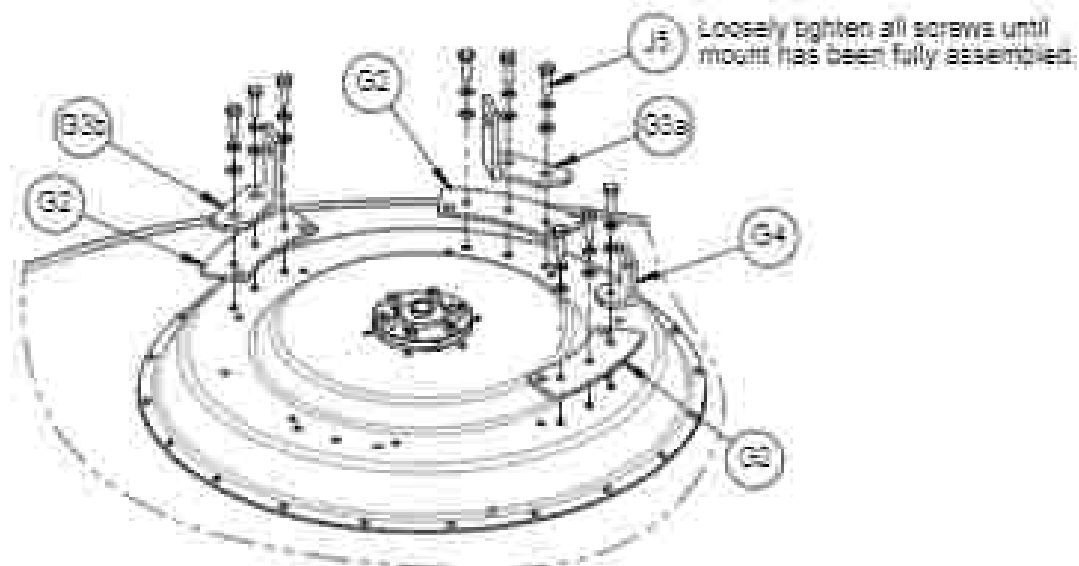
**USX6 Antenna
assembled to left
of support structure**



**HX6 Antenna
assembled to right
of support structure**



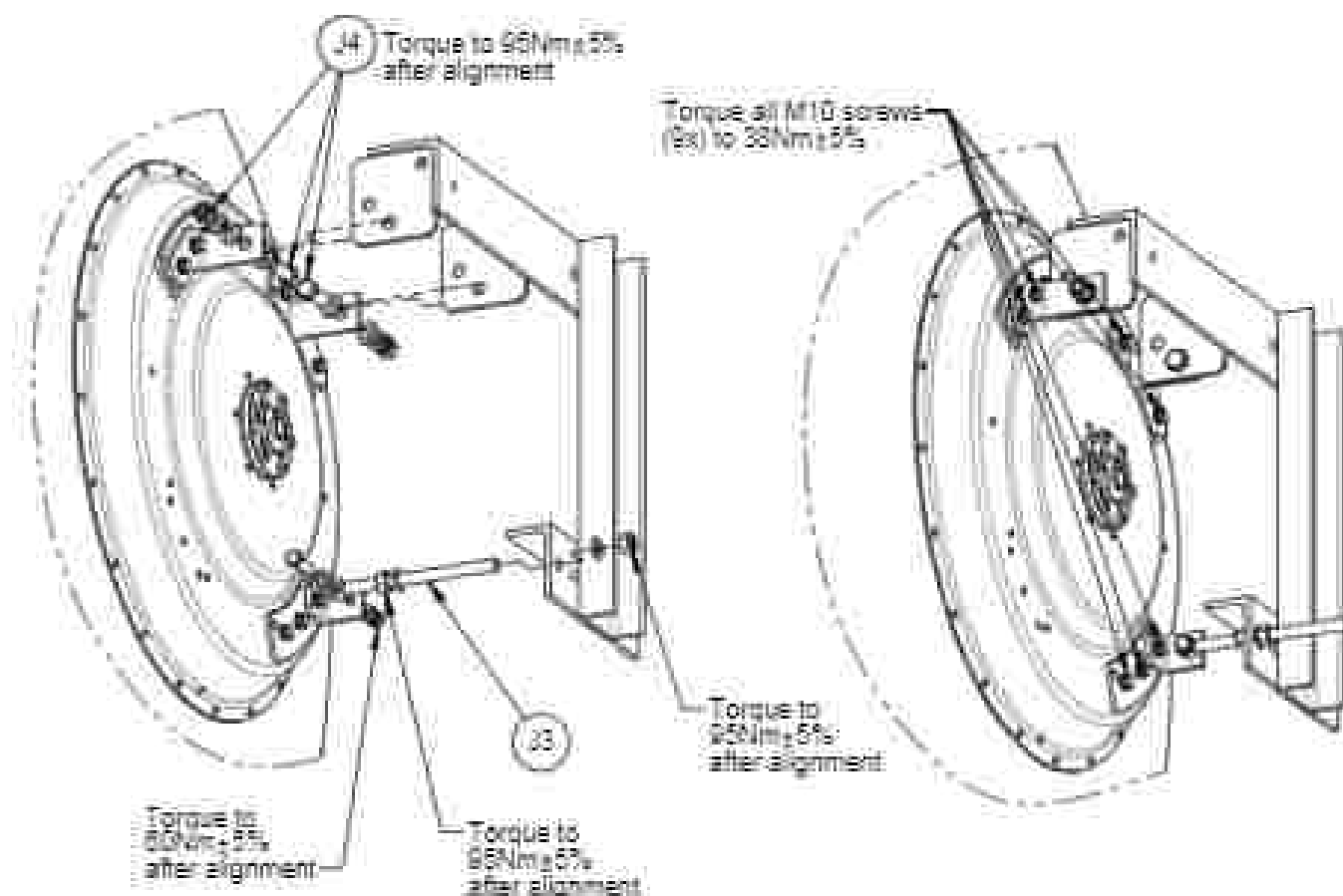
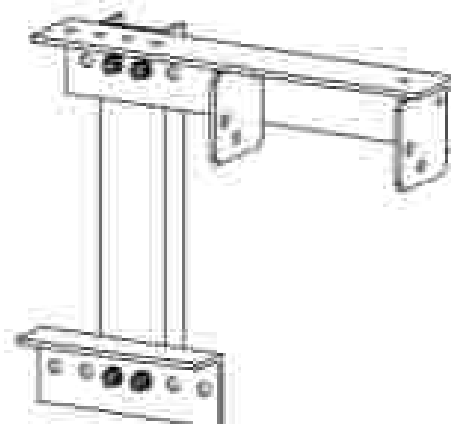
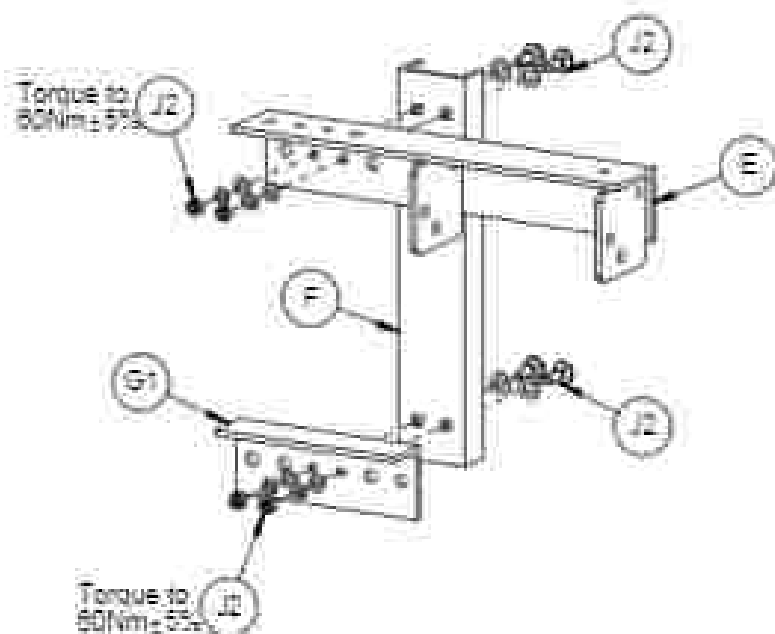
Carefully lay antenna on clear, flat ground and remove packing struts. Do not apply excessive weight to antenna's assembly.



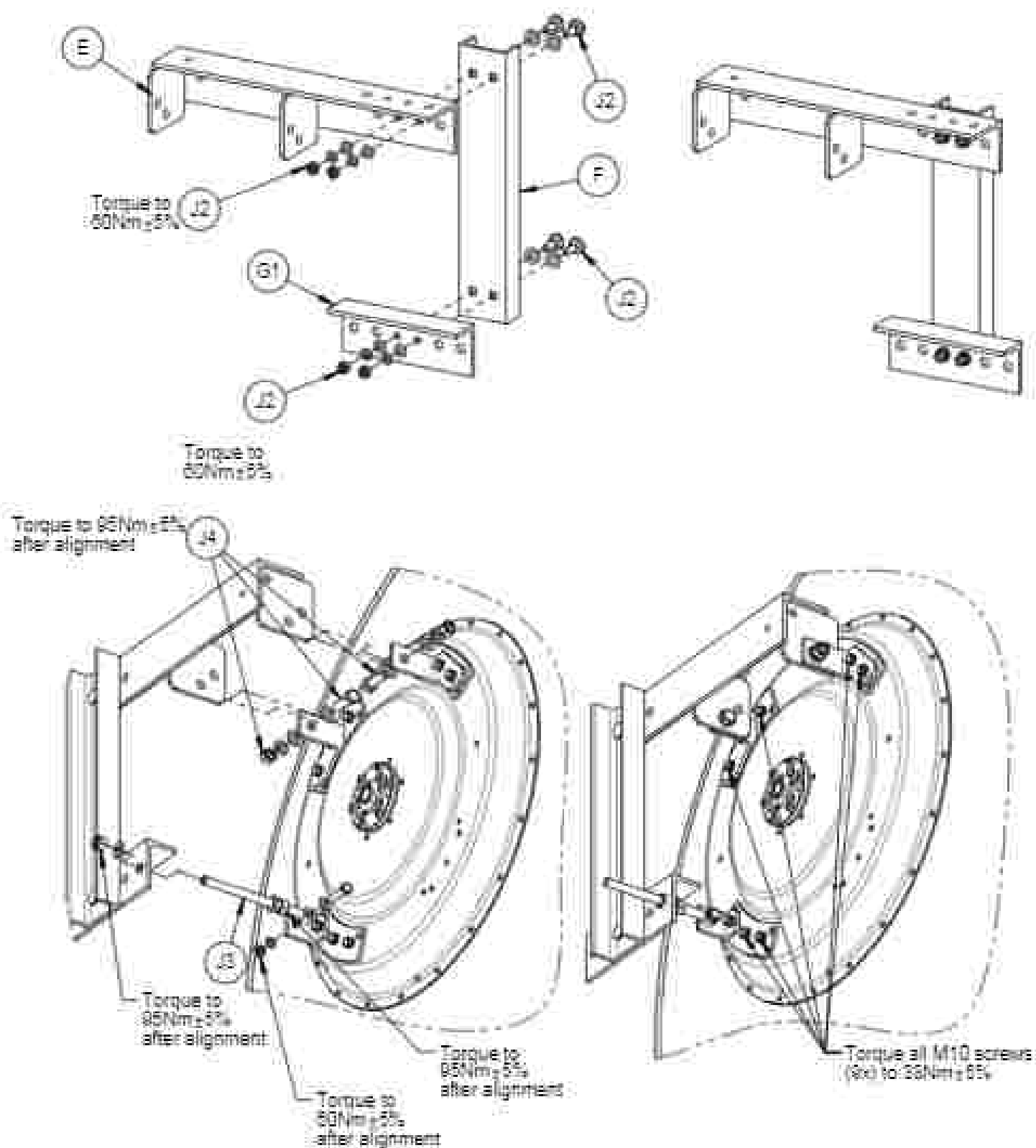
Mount bracket orientation for mounting antenna to the left of the support structure

For mounting the antenna to the right of the supporting structure : assemble bracket G4 along with associated plate G2 in position indicated.

**Mount assembly for mounting antenna
to the left of the support structure**

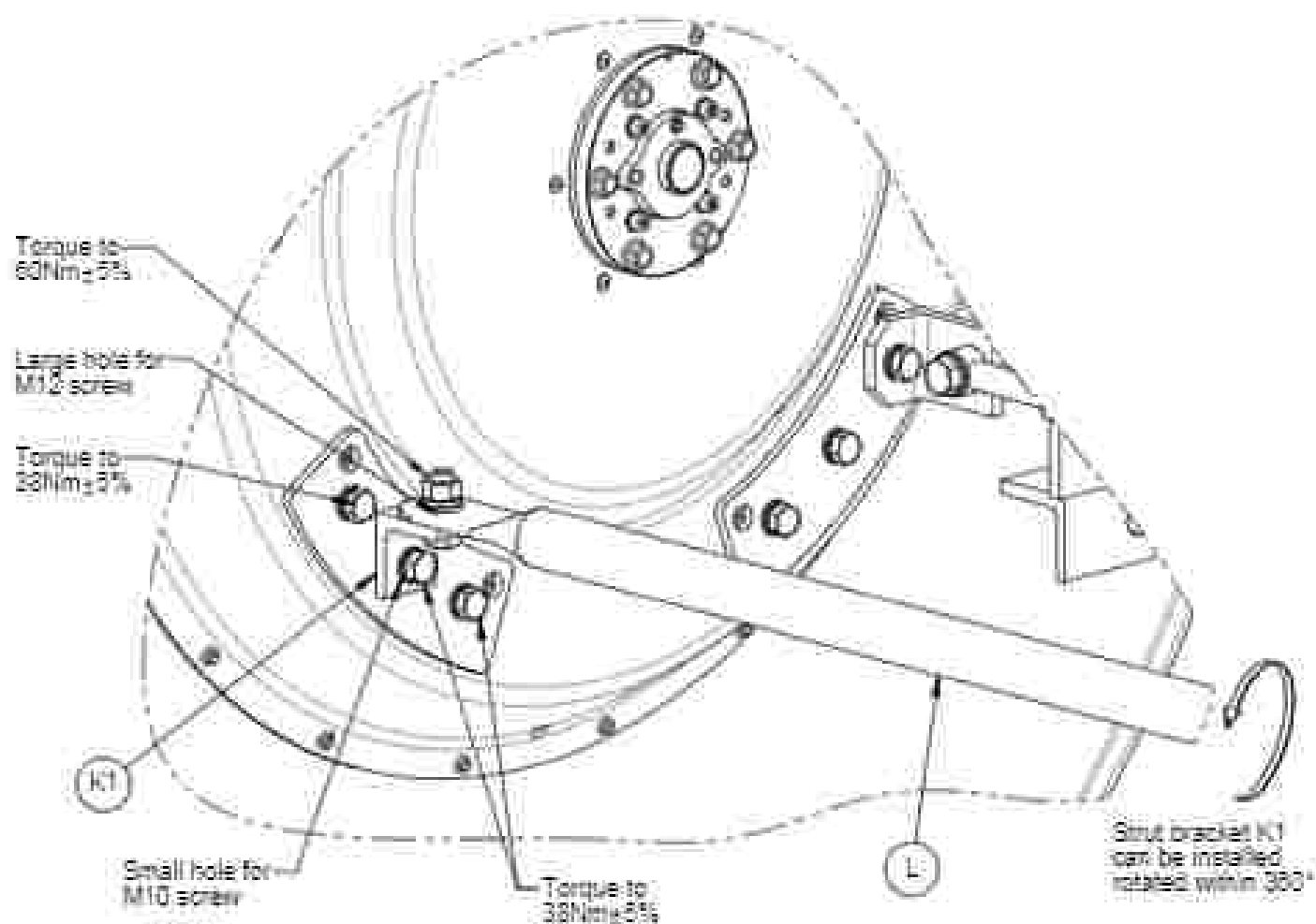


Mount assembly for mounting antenna
to the right of the support structure



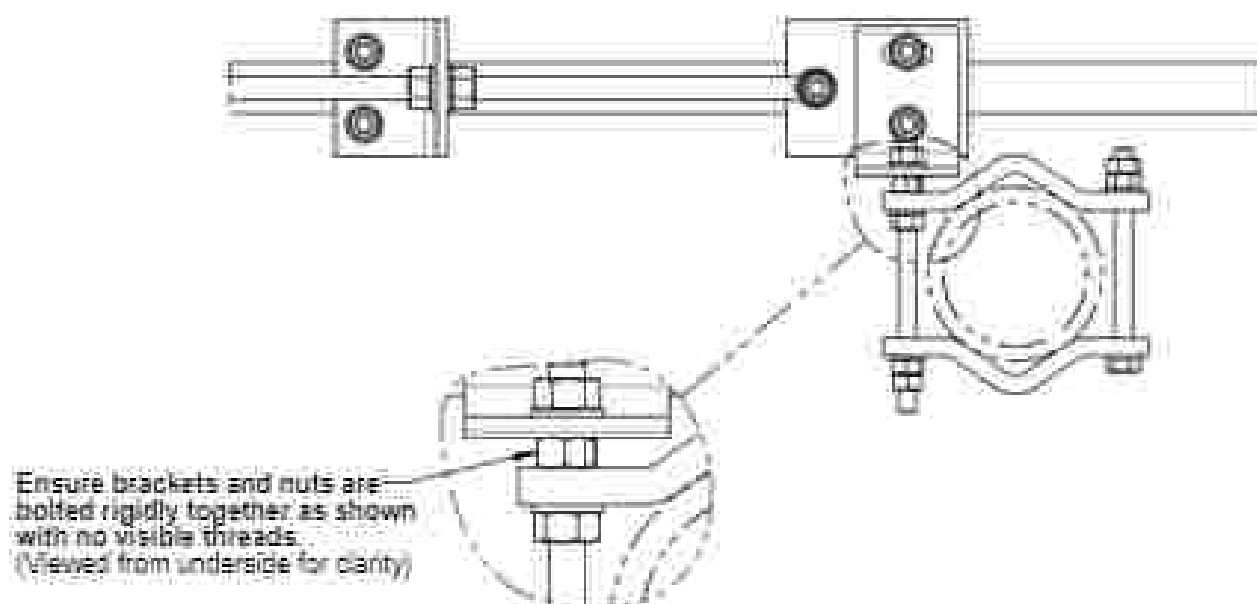
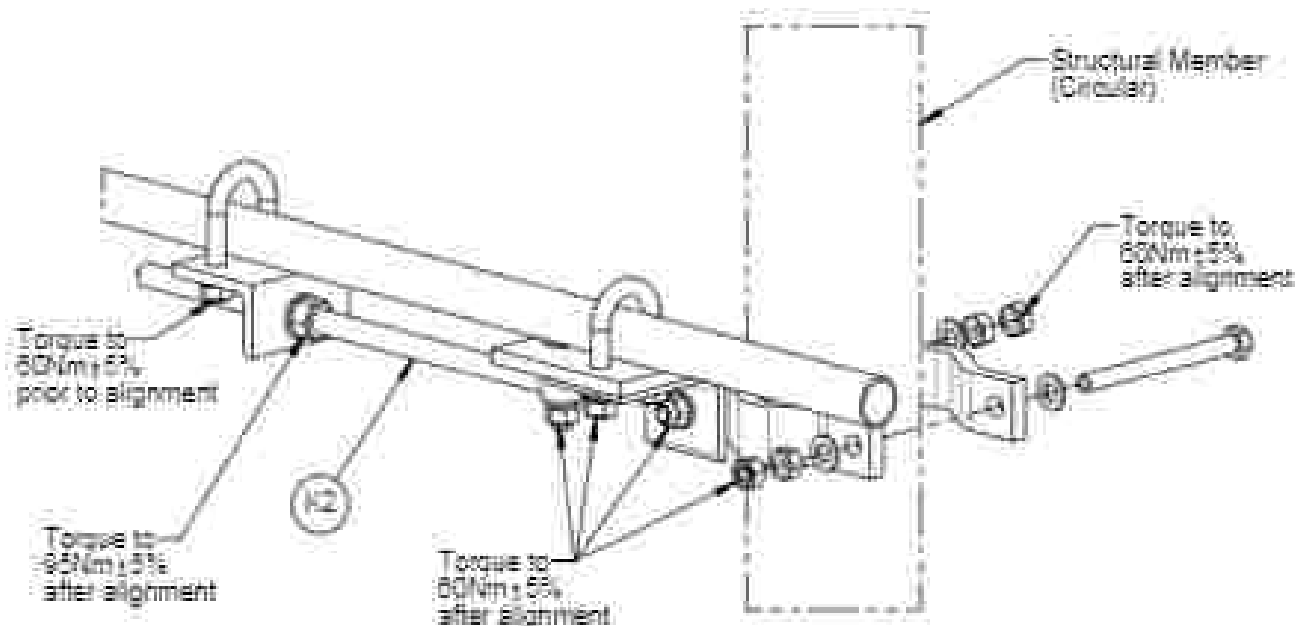


Strut to be fitted after Antenna is hoisted to desired position.



Strut to be loosely fitted until alignment is complete then tighten all fixings to torque specified.

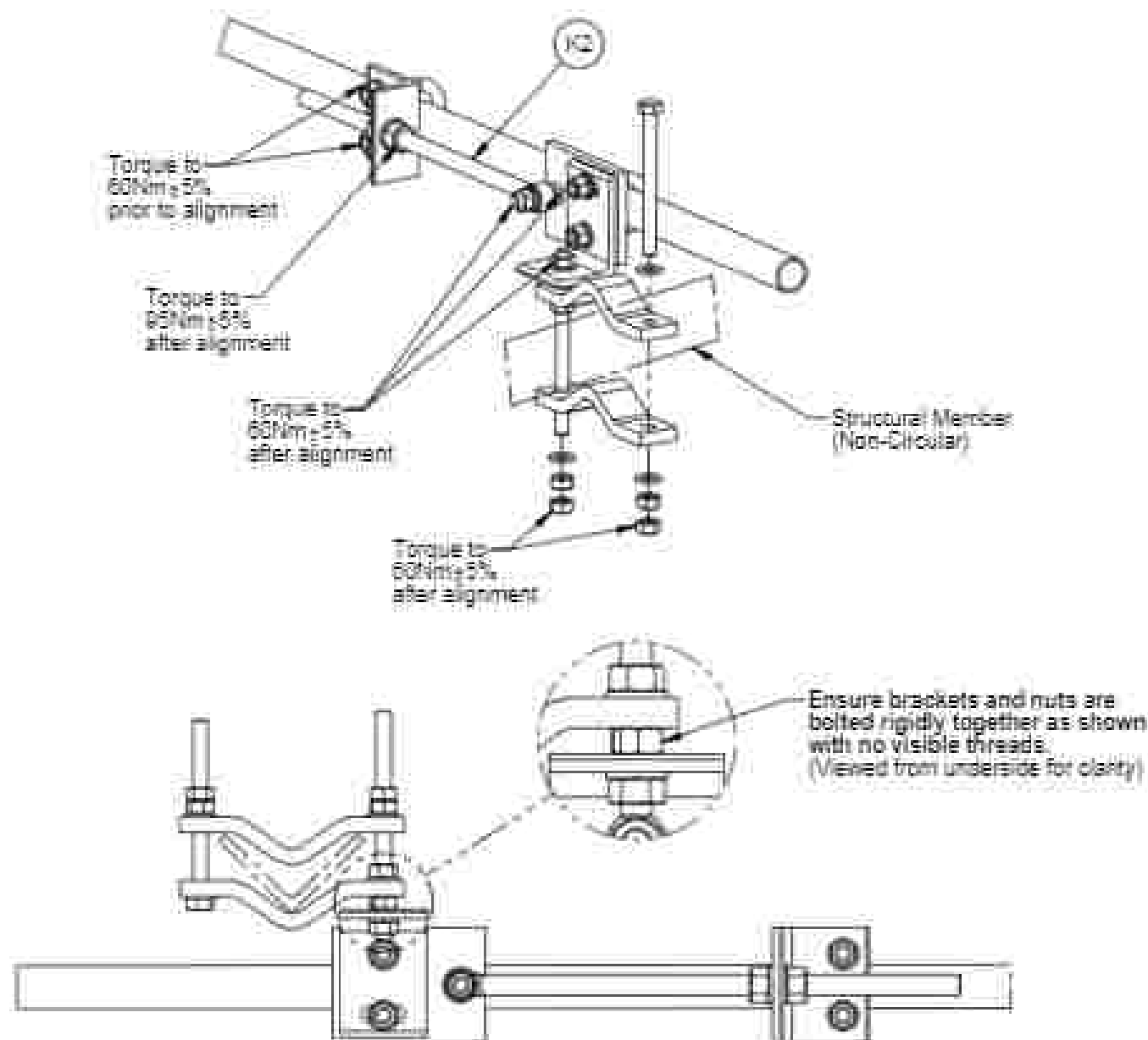
ATTACHMENT TO CIRCULAR STRUCTURAL MEMBERS.



Clamps must be attached to a circular structural member (Dia 48mm - 120mm) capable of supporting 6187N in accordance with TIA-222.

The maximum allowable relative deflection between the antenna mounting pipe and the strut attachment point must be less than 2mm at survival wind speed of the antenna.

ATTACHMENT TO NON-CIRCULAR STRUCTURAL MEMBERS.



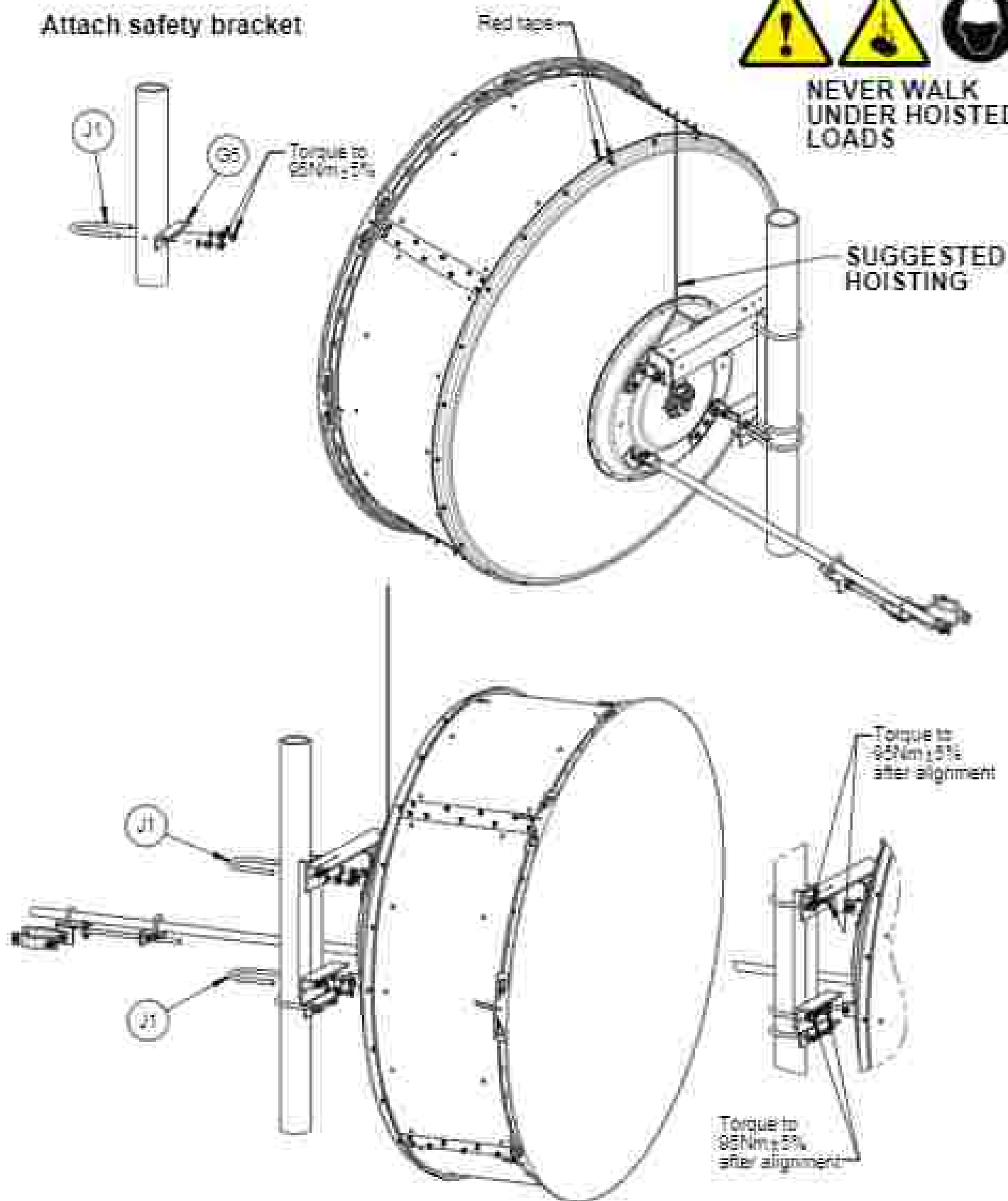
Clamps must be attached to a non-circular structural member capable of supporting 6187N in accordance with TIA-222.

The maximum allowable relative deflection between the antenna mounting pipe and the strut attachment point must be less than 2mm at survival wind speed of the antenna.

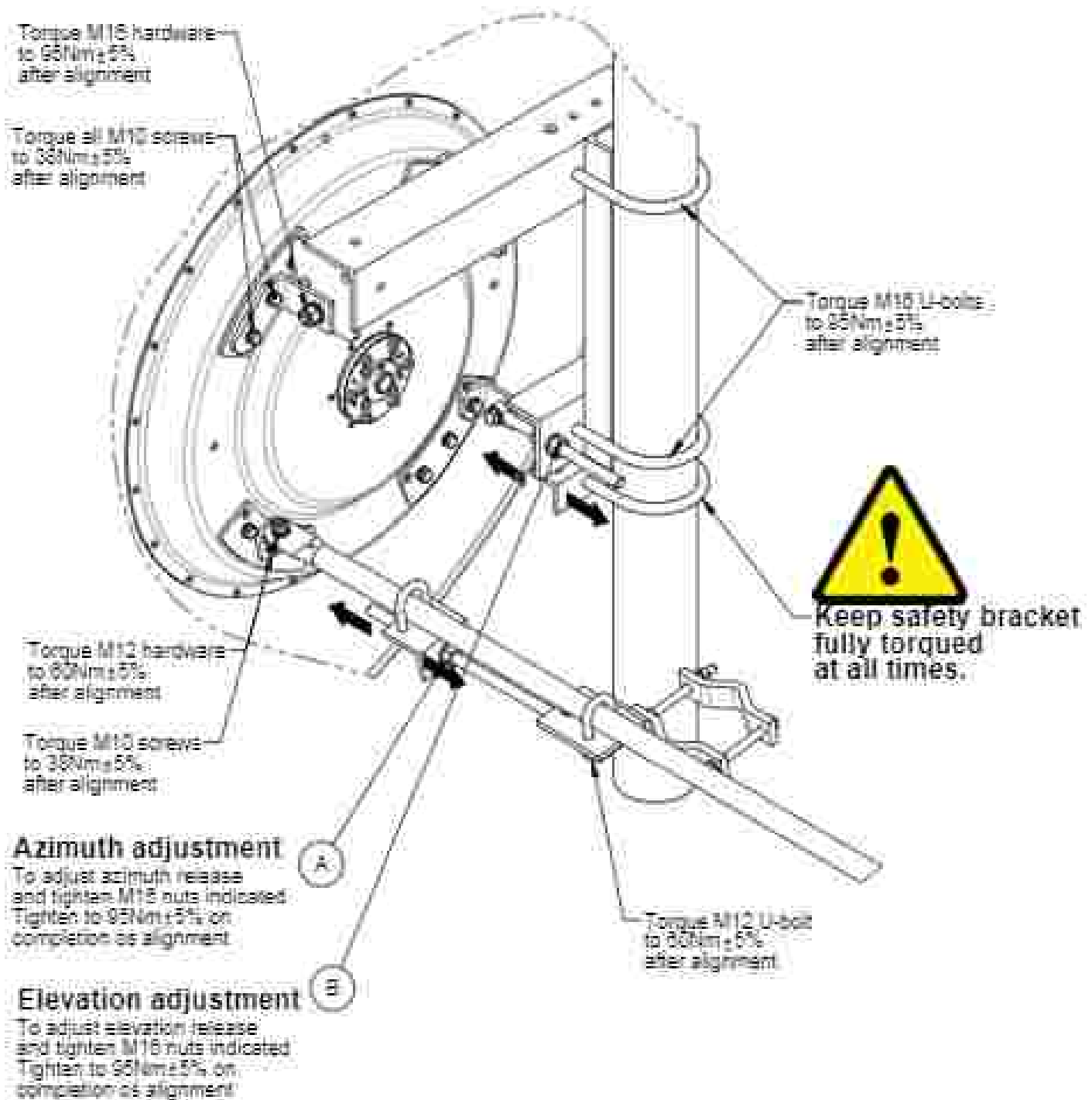
Attach safety bracket



**NEVER WALK
UNDER HOISTED
LOADS**

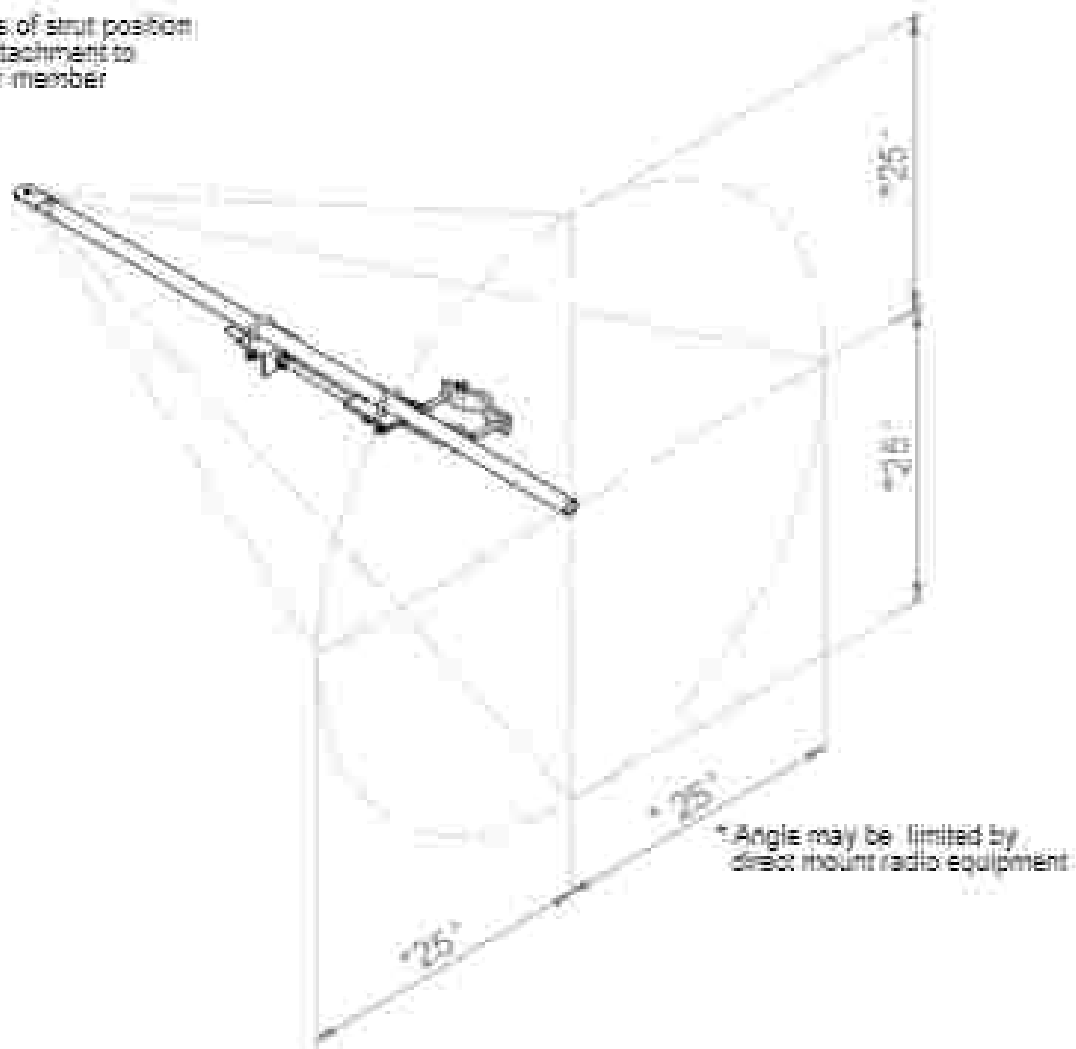


Azimuth Adjustment



Ensure all hardware is tightened to specified torque after completion of azimuth and elevation alignment.

Limits of strut position
for attachment to
tower member



View show below is intended as a guide for strut alignment.
Strut must be attached to appropriate structural mounting point.
Strut angle must not exceed maximum specified.
Failure to install the strut as instructed may result in mechanical failure of the antenna.



9 General Information

9.1 General maintenance

The antenna is designed such that minimal maintenance is required. Other than strong wind conditions the unit is not subject to abnormal forces and regular inspection and maintenance should ensure trouble free operation.

9.2 Cleaning of Antenna

To clean the antenna, use a diluted solution of water and mild detergent. Organic solvents should not be used.