

Antenna maintenance method

Maintenance type Maintenance items	Clearing	Fastening	Lubrication	Anti- corrosion	Inspection or Change
Mechanical structure					
Standard parts					Inspect periodically, change it in time if damaged.
AZ/EL drive motor	√	/			Inspect periodically
AZ/EL lead screw cover	/	/	/	/	Inspect periodically, and change it in time if there is ageing, damage.
AZ/EL lead screw lubricating			Use lubrication oil in time accordingly.		Inspect periodically
AZ/EL limit switch					Inspect periodically, and change it in time if necessary.
Drive moter power cable					Inspect periodically, and change it in time if there is ageing, damage.
Lubricating oil in reducing box			Use lubrication oil in time accordingly .		Inspect periodically
Connection of metal components		Fasten it in time accordingly.			Inspect periodically
Corrossion of metal components				Remove rust and repair paint in time accordingly.	
Antenna wide-range rotating (AZ/EL)					Inspect periodically; Advice:Every half a year
King post mounting					Inspect periodically, and remove rust and repair paint in time.
Other parts					
Feed membrane					Inspect periodically,remove rust and repair paint in time.Advice: change every year
Feed source	√				Periodical inspection, clear exotic matters to insure deciccation inside.
Waveguide aerator (if possible)					Inspect periodically if it is gasing too often.
Reflector	Remove snow in time in snowy days.				Inspect periodically,remove rust and repair paint in time.Advice: every year
Antenna grounding (if possible)					Periodical inspection
Beacon/controller (if possible)	Periodical dedusting				Inspect periodically to insure dissipation.

Note:

Aluminum parts	Clearing:Use a scraper,steel brush or iron velvet to clear all the deciduous paint and rust. Use a soft rag soaking in 3:1 mix thinner water of tolunen and propane to clean th esurface. Make sure all the deciduous paint,rust,dirt and oil sediment are cleared, or the paint cannot adhere to surface.
	Paint: Use 3:1 mix thinner water of tolunen and propane to dilute primer to the proper density. Paint the primer on the near painted surfave. Make sure the primer dry completely before painting. Then use the high reflection coefficient white paint as the finish coat.
Galvanized parts	Clearing:Same as above.
	Painting: Pait the clear surface by zinc rich paint as primer. Make sure the primer dry completely before painting.Then use the high reflection coefficient white paint as the finish coat.
Lubricating parts	Clearing: Use clear brush and rag to remove the previous lubricant before lubrcating any parts to avoid over stacking.
	Paint:Paint the lubricating oil periodically and make sure that lubricating interval should be less than three months. If the antenna is in hostile enviroment (such as high temperature,rain,high humidity and sand storm,etc),the lubricating intervals should be shortened. if it is in cold areas, it is suggested to use cold resistant lubricating oil. Do not lubricate too much.

Recommended finishing paint type :	ACRYLIC POLYURETHANE FINISH, RAL9003 signal white
Recommended lubrication oil type :	aviation lubrication grease (type 7008)