STATIC DISCHARGING - INSPECTION/CHECK

1. General

A. This section has the inspections and checks necessary to keep the static discharging system in a serviceable condition.

TASK 23-60-00-720

2. Static Discharge System Functional Check

A. General

(1) This task gives the information needed to complete the inspection procedures for the static discharge system.

B. Special Tools

(1) Digital Ohmmeter

(2) Megohmmeter

C. Access

(1) None

D. Do the Static Discharge System Functional Check.

(1) Visually examine the static dischargers for lightning damage and erosion of the airplane skin at the attach points.

(a) If the static discharger shows signs of a lightning strike, replace the static discharger and examine the entire aircraft for lightning strike damage. Refer to Chapter 5, Unscheduled Maintenance Checks.

(2) Visually examine between the tips of the static dischargers and the base assemblies for erosion.

(3) Visually examine the static dischargers for condition and security.

(4) Replace the damaged or the missing static dischargers.

(5) Make sure that all static dischargers are tight.

E. Do a Functional Check of the Static Discharge System.

(1) Use an ohmmeter (bonding meter) to do a check of the resistance between the base assemblies and a good airplane ground.

(a) Make sure that the resistance between the base assembly and the metal surface is 0.5 ohms or less.

(b) Make sure there is a good ground before you do the next step.

WARNING: Use precaution when you use a high voltage megohmmeter to prevent an electrical shock.

(2) Use a megohmmeter set to 500 volts to do a check of the resistance between the base assemblies and the static dischargers.

(a) Make sure that the resistance between the base assembly and the static discharger is 1 to 100 megohms.

(b) If the resistance between the base assembly and the static discharger is not in tolerance, replace the static discharger.

F. Restore Access

(1) None

END OF TASK