

TKS ANTI-ICE SYSTEM - INSPECTION/CHECK**1. General**

- A. This section has the inspections and checks necessary to keep the TKS anti-ice system in a serviceable condition.

TASK 30-11-00-720**2. TKS Anti-Ice System Functional Check**

- A. General
- (1) This task gives the procedures to do a TKS anti-ice system functional check.
- B. Special Tools
- (1) None
- C. Access
- (1) None
- D. Do the TKS Anti-Ice System Functional Check.
- (1) For the procedures necessary to do a functional check of the TKS anti-ice system for airplanes with the fairing installation, do the TKS Anti-Ice System Test. Refer to TKS Anti-Ice System - Adjustment/Test (Fairing Installation).
 - (2) For the procedures necessary to do a functional check of the TKS anti-ice system for airplanes with the pod installation, do the TKS Anti-Ice Fluid Tank Component Test. Refer to TKS Anti-Ice Fluid Tank Components - Adjustment/Test (Cargo Pod Installation).
- E. Do the Filter Differential Pressure Functional Check.
- (1) For the procedures necessary to do a functional check of the filter differential pressure, do the Filter Differential Pressure Test. Refer to TKS Anti-Ice Fluid Tank and Filter- Adjustment/Test.
- F. Restore Access
- (1) None

END OF TASK**TASK 30-11-00-721****3. Inboard TKS Wing Panel Pressurization Functional Check**

- A. General
- (1) This task gives the procedures to do a pressurization functional check of the Inboard TKS Wing Panels.
- B. Special Tools
- (1) TKS System Test Cart. Refer to Ice and Rain Protection - General.
- C. Access
- (1) Remove wing access panels as needed to get access to the inboard wing panel fluid fittings.
- D. Do the Inboard TKS Wing Panel Pressurization Functional Check.
- (1) Use the Porous Panel Purge and Test procedures to operate the inboard TKS wing panels at a pressure of 60 psi (413 kPa). Refer to TKS Anti-Ice Leading Edge Porous Panel - Adjustment/Test.
- NOTE: When the inboard ports are pressurized, the outboard port must be capped.**
- (2) With 60 psi (413 kPa) applied to the inboard wing panels, examine the top and bottom trailing edges of the inboard TKS wing panels.
 - (a) Make sure there is no separation between the trailing edges of the panel and the wing leading edge.
 - (b) If separation between the wing panels and the wing leading edge is found, the TKS porous panel must be replaced. Refer to TKS Anti-Ice Leading Edge Porous Panel - Maintenance Practices.
- E. Restore Access
- (1) Remove any caps or plugs that were installed on the supply tubes.
 - (2) Connect the panel supply tubes to the porous panels. Refer to TKS Anti-Ice Leading Edge Porous Panel - Adjustment/Test.
 - (3) Install the access panels that were removed.

END OF TASK**TASK 30-11-00-722**

4. TKS System Pressure and Flow Functional Check

A. General

- (1) This task gives procedures to determine if the TKS system has the correct system pressure and fluid flow.

B. Special Tools

- (1) None

C. Access

- (1) None

D. Do the TKS System Pressure and Flow Check.

- (1) For the procedures necessary to do a functional check of the of the TKS system pressure and flow check, do the Propeller Flow and Port Pressure Test. Refer to TKS Propeller Flow and Port Pressure - Adjustment/Test.

E. Restore Access

- (1) None

END OF TASK