CREW OXYGEN - CLEANING/PAINTING

EFFECTIVITY: ALL

1. General

   A. This section gives the procedure to clean the parts used on the crew oxygen system.

   B. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	*DESCRIPTION*	*EFFECTIVITY*
35-10-00-100-801-A	CREW OXYGEN SYSTEM - CLEANING	ALL

TASK 35-10-00-100-801-A
EFFECTIVITY: ALL

2. CREW OXYGEN SYSTEM - CLEANING

A. General

(1) The procedure to clean the crew oxygen system is also applicable to dirty tools or tools which touched oils, grease, and other contaminations.

B. References

REFERENCE	*DESIGNATION*
AMM TASK 35-10-00-910-804-A/200	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
Commercially available	Source of nitrogen	To dry aluminum parts	
Commercially available	Oven with controlled temperature up to 100°C (212°F)	To dry stainless-steel parts	

E. Auxiliary Items

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
Commercially available	Rubber Gloves	To protect the hands	1 pair

F. Consumable Materials

SPECIFICATION (BRAND)	*DESCRIPTION*	*QTY*
Fed. Std-BB-N-411, type I, class I, and grade B	Nitrogen	AR
DOW-PER LM (ASTM-D-4376)	Perchloroethylene	AR
A-A-59105	Nitric Acid (61% concentrated)	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	*FUNCTION*	*PLACE*
1	Does the task	Area with a good flow of air

I. Procedure to Clean Metallic Parts (Tubing, Tools, etc.)

SUBTASK 110-002-A

WARNING: THE SOLVENTS AND CLEANERS CONTAIN POISONOUS AGENTS. WEAR GLOVES WHEN YOU USE THEM AND DO NOT LET THEM TOUCH YOUR SKIN OR EYES. HAVE A SUFFICIENT FLOW OF AIR OR USE RESPIRATORS.

NOTE:
- If necessary, clean all tubings with no protection at their ends which were open to the air, and all parts to be installed.
- After the cleaning operation, put the tubings and parts which you will not use in an approved container and keep them safety (AMM TASK 35-10-00-910-804-A/200).

(1) Flush the parts with clean water for 3 to 5 minutes, or until all visible signs of contamination or oil are removed. Apply a strong water jet to the parts.

NOTE: We recommend you to use one liter of perchloroethylene for each 100 grams of parts, and the replacement of all the liquid after you wash 1 Kg of parts.

(2) Remove the grease from the parts with a bath of perchloroethylene for 5 minutes. Shake the liquid in order to remove the contamination.

(3) Put the stainless-steel parts in a bath of nitric acid at a concentration of 61% for 2 hours to remove the contamination.

(4) Flush the parts with clean water for 20 to 30 minutes.

(5) Dry the parts.

NOTE: Dry the stainless-steel parts in an oven at 90°C (194°F) to 100°C (212°F) for 1 hour. Apply nitrogen to the aluminum parts to dry them.