

RESTRICTED
RESCINDED

HEADQUARTERS, ARMY AIR FORCES
WASHINGTON 25, D. C.

AF-57-40
TECHNICAL ORDER
NO. 01-60J-45

22 February 1945

11 FEB 1945
Compl. Compl.

AIRCRAFT AND MAINTENANCE PARTS

NORTH AMERICAN—INSPECTION AND REPLACEMENT OF COOLANT HEADER TANK INLET HOSE CLAMPS—P-51B, P-51C, P-51D, AND P-51K

This Technical Order replaces T. O. No. 01-60J-45, dated 16 January 1945, revised to list serial numbers of P-51K airplanes modified in production.

NOTE As prescribed in T. O. No. 00-20A, appropriate reference to this Technical Order will be entered on AAF Forms 60-A for the aircraft affected. The work directed herein will be accomplished as soon as possible and not later than the next 50-hour inspection period by service activities with the aid of base maintenance facilities, if necessary. Spare engines will be modified prior to installation.

1. To prevent breakage of hose clamps and loss of coolant solution, inspection and modification, if necessary, will be made on all P-51B, P-51C, P-51D, and P-51K airplanes, in accordance with instructions contained in paragraph 2. P-51D airplanes, AF No. 44-72629 and P-51K airplanes, AF No. 44-12557 and subsequent, will be modified in production prior to delivery.

2. Instructions for the inspection and modification, if necessary, of the coolant header tank inlet hose connection, are as follows:

a. Remove the upper engine cowling.

b. Inspect the coolant header tank inlet hose connections for clamps, North American, part No. 102-46086 (figure 3), and Packard, part No. 606473, removing any other clamps that may be installed.

NOTE Retain neoprene ring, part No. 616478, and retainer, part No. 604867, for in-

stallation. (See figure 1.) Condemn all clamps used in this installation similar to those shown in figure 2.

c. Install four clamps, North American, part No. 102-46086, or two clamps, Packard, part No. 606473, along with four bolts, part No. AN3-14A, and four nuts, part No. AN365-1032, unless already installed, over the retainers, part No. 604867, and molded neoprene ring and tighten the four bolts evenly. (See figure 4.)

NOTE Install retainers over molded neoprene ring leaving the extruded part of the ring between the ends of the retainers. Install clamp so that separation in clamp is 90 degrees to separation in the retainers. If clamps, North American, part No. 606473, is not available, local manufacture will be accomplished in accordance with figure 3.

3. a. The following parts are required per airplane to accomplish this change:

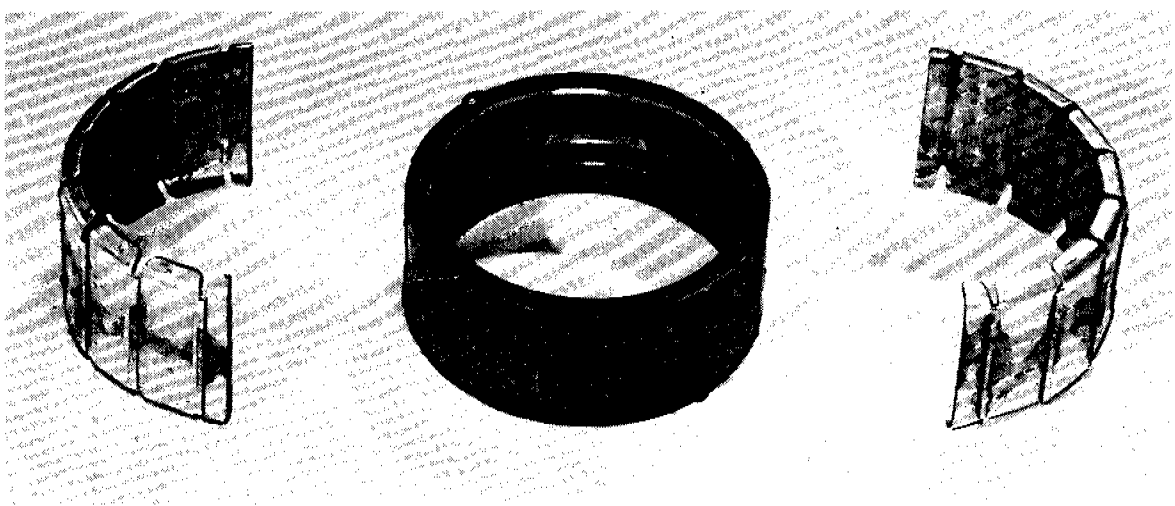


Figure 1 - Molded Ring and Retainers

NOTICE: This document contains information affecting the national defense of the United States within the meaning of the Espionage Act, 50 U. S. C., 31 and 32, as amended. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

23 February 1945

AIRCRAFT AND MAINTENANCE PARTS

NORTH AMERICAN—INSPECTION AND REPLACEMENT OF COOLANT HEADER
TANK INLET HOSE CLAMPS—P-51B, P-51C, P-51D, AND P-51K

This Technical Order replaces T. O. No. 01-60J-45, dated 16 January 1945, revised to list serial numbers of P-51K airplanes modified in production.

NOTE As prescribed in T. O. No. 00-20A, appropriate reference to this Technical Order will be entered on AAF Forms 60-A for the aircraft affected. The work directed herein will be accomplished as soon as possible and not later than the next 50-hour inspection period by service activities with the aid of base maintenance facilities, if necessary. Spare engines will be modified prior to installation.

1. To prevent breakage of hose clamps and loss of coolant solution, inspection and modification, if necessary, will be made on all P-51B, P-51C, P-51D, and P-51K airplanes, in accordance with instructions contained in paragraph 2. P-51D airplanes, AF No. 44-72629 and P-51K airplanes, AF No. 44-12587 and subsequent, will be modified in production prior to delivery.

2. Instructions for the inspection and modification, if necessary, of the coolant header tank inlet hose connection, are as follows:

a. Remove the upper engine cowling.

b. Inspect the coolant header tank inlet hose connections for clamps, North American, part No. 102-46086 (figure 3), and Packard, part No. 606473, removing any other clamps that may be installed.

NOTE Retain neoprene ring, part No. 616478, and retainer, part No. 604867, for in-

stallation. (See figure 1.) Condemn all clamps used in this installation similar to those shown in figure 2.

c. Install four clamps, North American, part No. 102-46086, or two clamps, Packard, part No. 606473, along with four bolts, part No. AN3-14A, and four nuts, part No. AN365-1032, unless already installed, over the retainers, part No. 604867, and molded neoprene ring and tighten the four bolts evenly. (See figure 4.)

NOTE Install retainers over molded neoprene ring leaving the extruded part of the ring between the ends of the retainers. Install clamp so that separation in clamp is 90 degrees to separation in the retainers. If clamps, North American, part No. 606473, is not available, local manufacture will be accomplished in accordance with figure 3.

3. a. The following parts are required per airplane to accomplish this change:

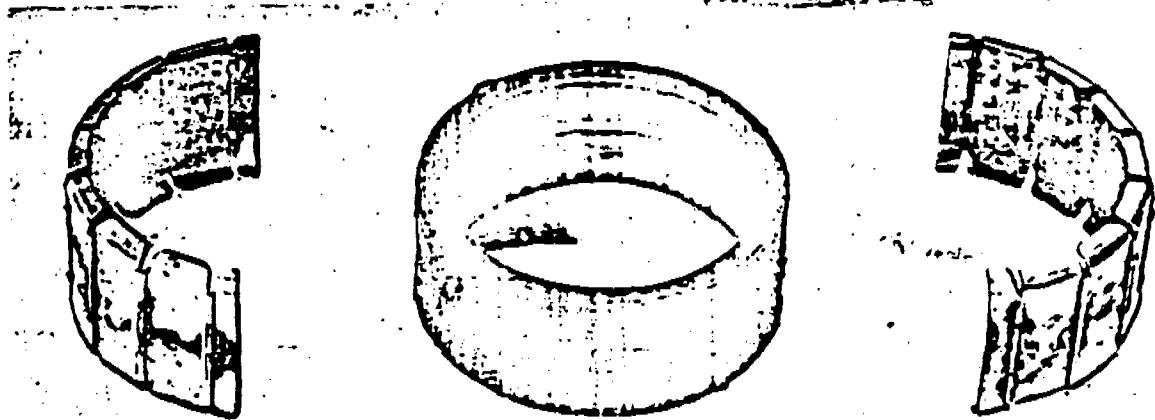


Figure 1 - Molded Ring and Retainers

NOTICE: This document contains information affecting the national defense of the United States within the meaning of the Espionage Act, 50 U. S. C. 31 and 32, as amended, the transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

RESTRICTED

Compliance with these instructions is MANDATORY in continental United States. In overseas theaters, compliance will be at the discretion of Air Force Commanders concerned.

Figure 2
Standard Types
Hose Clamps

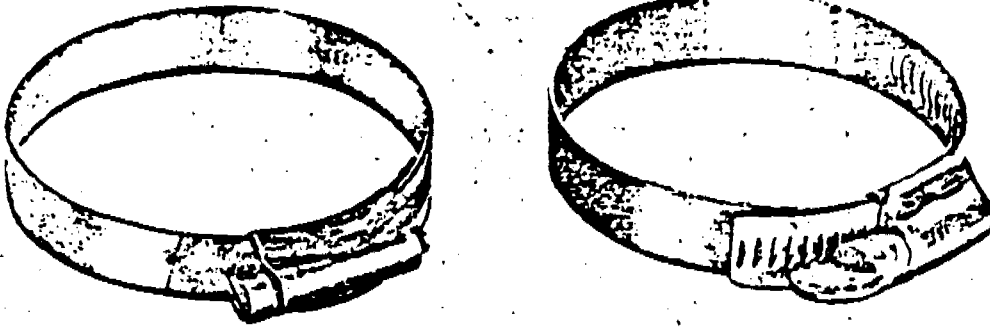


Figure 4 - Complete
Assembly

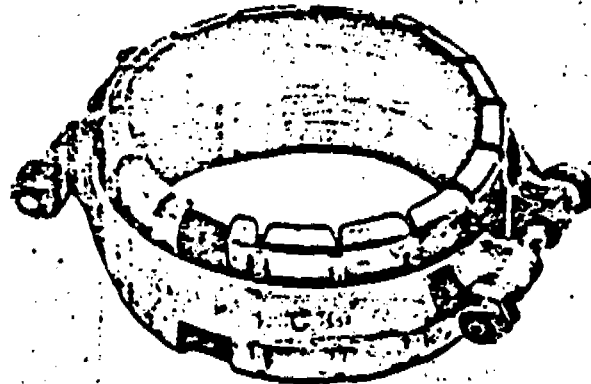
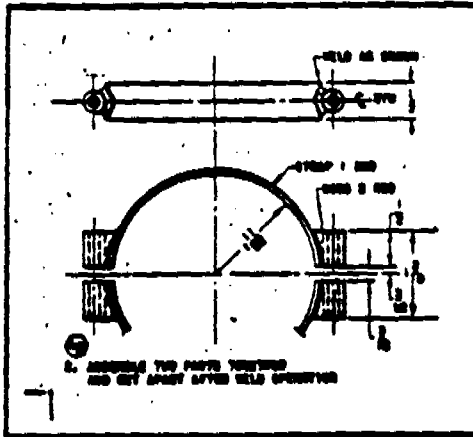


Figure 3
Clamp As-
sembly -
Coolant En-
gine Outlet



QTY	STOCK NO.	PART NO.	NOMENCLATURE	CLASS	SOURCE
4		102-46086	Clamp	01-M	AF Stock
2		OR 606473	Clamp	02-J	AF Stock
4		OR 102-46086	Clamp	01-M	Local Mfr
As req			Mfr from: Steel - Chromemoly, condition N, seamless tubing, 5-16-in. OD x .058-in. wall, Specification No. AN-WW-T-850, stock No. 6800-414800	23-A	AF Stock
As req			Steel - Chromemoly, condition A, .0625 in., stock No. 6800-451350 or	23-A	AF Stock
As req			Steel - Low alloy low carbon sheet .0625 in., Specification No. AN- QQ-8-876, stock No. 6800-490060	23-A	AF Stock
4	6500-032090	AN3-14A	Bolt - Aircraft	04-A	AF Stock
4	6500-514000	AN365-1032	Nut - Self-locking steel	04-A	AF Stock

g. The parts removed in accordance with the preceding instructions will be condemned at once and so tagged for disposition as condemned property.

BY COMMAND OF GENERAL ARNOLD:

Prepared by Associated Equipment
Section, Maintenance Div, Hq, ATSC.

B. E. MEYERS
Major General, U.S.A.
Deputy Director
Air Technical Service Command