

16 February 1945

AIRCRAFT AND MAINTENANCE PARTS

**NORTH AMERICAN — REPLACEMENT OF FUEL HOSE FROM SELECTOR VALVE
TO SHUT-OFF VALVE — P-51B, P-51C, AND P-51D**

NOTE As prescribed in T. O. No. 00-20A, appropriate reference to this Technical Order will be entered on AAF Form 60-A for the aircraft affected. The work directed herein will be accomplished as soon as possible and not later than the next 100-hour inspection period by service activities with the aid of base maintenance facilities, if necessary.

1. To prevent possible chafing of the fuel hose by the tire on the LH landing-gear wheel immediately after the gear is retracted, the fuel hose, between the selector valve and shut-off valve located in LH wheel well, will be replaced on the following listed airplanes, with a 3/4-inch outside diameter metal fuel line in accordance with the instructions contained in paragraph 2.

MODEL	AF SERIAL NOS.	MODIFI- CATION	KIT REQ
P-51C	42-102979 to 42-103978 incl	A	"A"
	43-24902 to 43-25251 incl	A	"A"
	44-10753 to 44-10902 incl	A	"A"
P-51D	44-13253 to 44-14252 incl	B	"B"

The following airplanes will be modified by the contractor prior to delivery:

MODEL	AF SERIAL NOS.	MODIFI- CATION	KIT REQ
P-51B	42-106429 to 42-106538 incl	A	"A"
	42-106541 to 42-106978 incl	A	"A"
	43-6313 to 43-7202 incl	A	"A"
	43-12093 to 43-12492 incl	A	"A"
	43-24752 to 42-24901 incl	A	"A"

MODEL	AF SERIAL NOS.
P-51C	44-10903 and subsequent
P-51D-NA	44-14253 and subsequent
P-51D-NT	44-11153 and subsequent including P-51K-NT airplanes

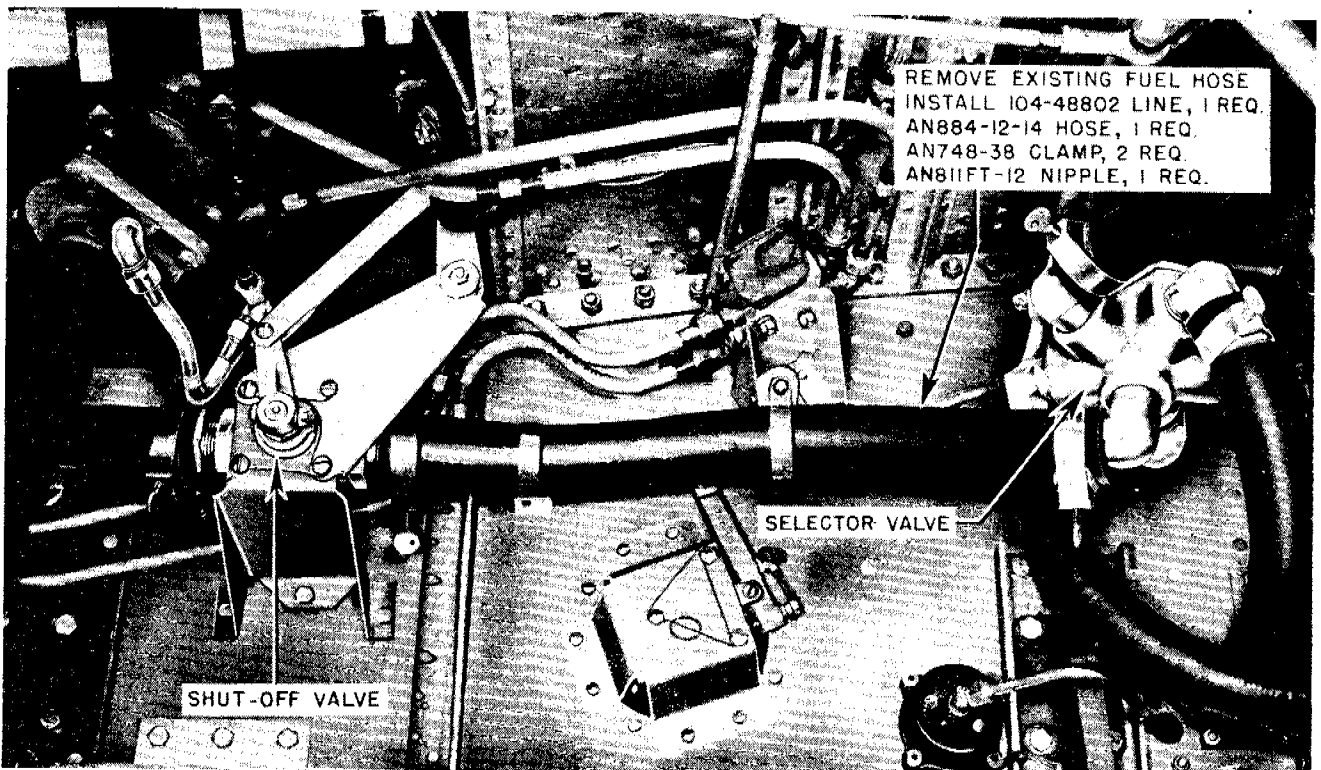


Figure 1 - Left-hand Wheel Well - P-51B and P-51C Airplanes

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.

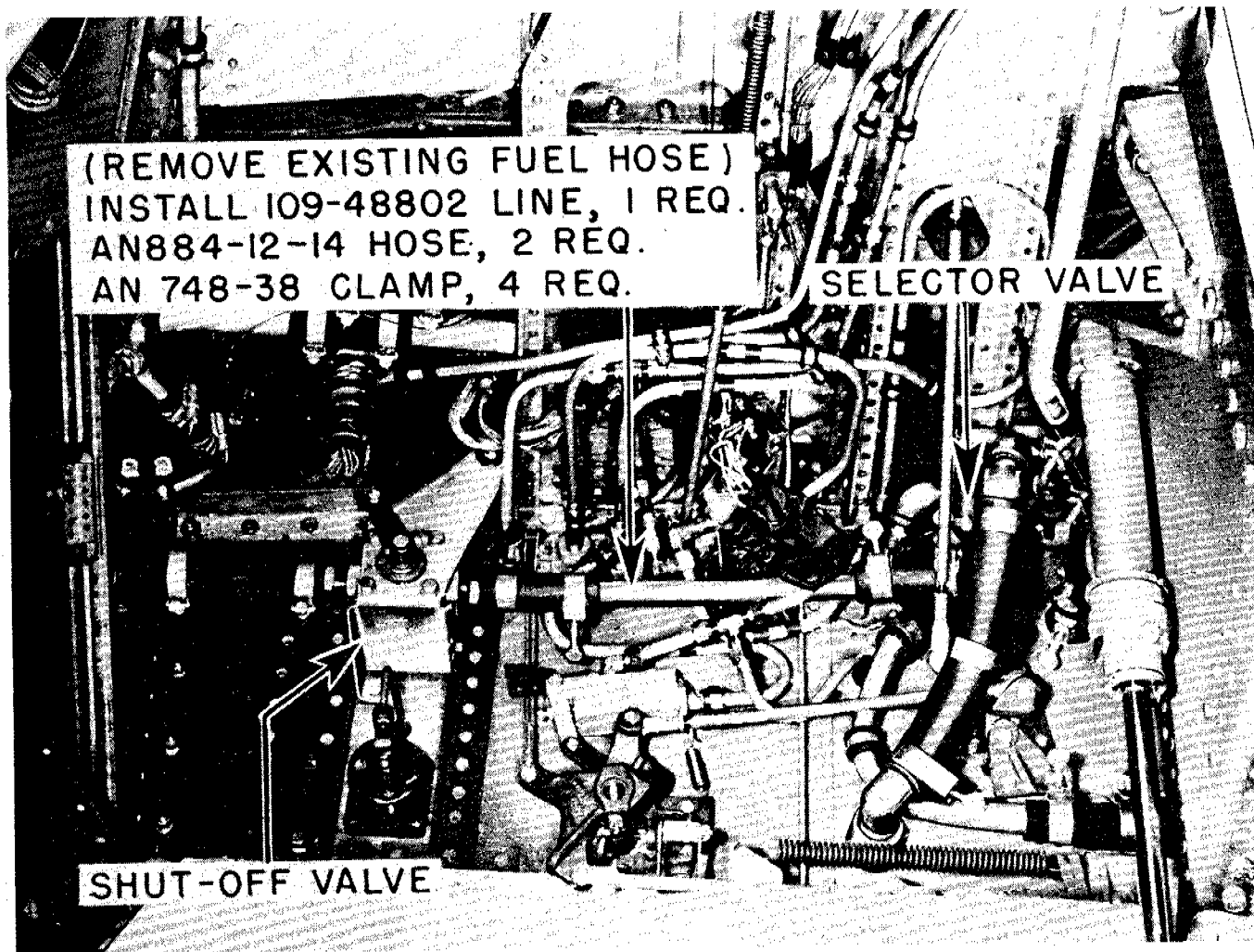


Figure 2 - Left-hand Wheel Well - P-51D Airplanes

2. The instructions for accomplishing this change as contained in North American Service Bulletin P-51-184, are as follows:

a. With combat tanks removed, turn fuel shut-off valve to "OFF" and fuel selector valve to either LH or RH combat tank.

b. Pull out emergency landing-gear fairing door knob and manually pull down LH fairing door.

c. The following instructions are for modification "A" and apply to P-51B and P-51C airplanes only.

(1) Locate the fuel hose, part No. 106-488101-22, in LH wheel well connected to the fuel shut-off valve and fuel selector valve. Remove the hose by detaching the clamps on each end and at the timing valve bracket on the center rib midway between the two valves. (See figure 1.)

(2) File or cut the timing valve bracket approximately 3/16 inch to provide clearance for the new metal line.

NOTE Temporarily place new line in position to determine proper edge of bracket to be cut.

(3) Remove nipple, part No. AN840-16, from fuel shut-off valve and replace with nipple, part No. 811FT-12.

(4) Install fuel line, part No. 104-48802, between fuel shut-off valve and fuel selector valve using one hose, part No. AN884-12-14, and two clamps, part No. AN748-38.

NOTE Make certain the maximum bend of the line is nearest the bulkhead.

(5) Push in emergency landing-gear fairing door knob and close LH fairing door.

(6) Turn fuel control valve to "ON" and fuel selector valve to "FUS. TANK" or "MAIN TANK" position.

d. The following instructions are for modification "B" and apply to P-51D airplanes only.

(1) Locate the fuel hose, part No. 106-488101-19, in LH wheel well, connected to the fuel shut-off valve and fuel selector valve.

(2) Remove hose, part No. 106-488101-19, by detaching the clamps on each end and the supporting clamp at the timing valve bracket. (See figure 2.)

RESTRICTED
T. O. No. 01-60J-34

(3) File or cut the timing valve bracket approximately 3/16 inch to provide clearance for the new line.

(4) Install fuel line, part No. 109-48802, using two hoses, part No. AN884-12-14, and four clamps, part No. AN748-38. Attach line to timing valve bracket using parts previously removed.

(5) Push in emergency landing-gear fairing door knob and close LH fairing door.

(6) Turn fuel control valve to "ON" and fuel selector valve to "FUS. TANK" or "MAIN TANK" position.

3. a. The following parts are required per airplane to accomplish this change. These parts are furnished as complete kits for initial installation and will be requisitioned in accordance with T. O. No. 00-35A-15. Parts required for maintenance after the initial installation will be requisitioned from the property classes as indicated.

QTY	STOCK NO.	PART NO.	NOMENCLATURE	CLASS	SOURCE
1	1300TO-01-60J34		KIT "A," "Replacement of Fuel Hose From Selector Valve to Shut-off Valve - P-51B and P-51C," consisting of the following parts:	15	AF Stock
1		104-48802	Tube Assembly	01-M	
1	6600-381190	AN884-12-14	Hose - Aromatic resistant 3/4 in. ID x 3-1/2 in. long	04-B	
2	6500-293376-55	AN748-38	Clamp - Hose, 1-3/16 in. ID	04-A	
1	6500-462000	811FT-12	Nipple - Solderless union triple 3/4 in. tube, 3/4 in. EPT	04-A	
1	1300TO-01-60J34		KIT "B," "Replacement of Fuel Hose From Selector Valve to Shut-off Valve - P-51D," consisting of the following parts:	15	AF Stock
1		109-48802	Fuel Line	01-M	
2	6600-381190	AN884-12-14	Hose - Aromatic resistant, 3/4 in. ID x 3-1/2 in. long	04-B	
4	6500-293376-55	AN748-38	Clamp - Hose, 1-3/16 in. ID	04-A	

b. The following parts removed in accordance with the preceding instructions, and all like items in stock will be condemned at once, and so tagged for disposition as condemned property.

PART NO.	NOMENCLATURE	CLASS
106-488101-22 or	Fuel Hose	01-M
106-488101-8	Fuel Hose	01-M
106-488101-19 or	Fuel Hose	01-M
106-488101-18	Fuel Hose	01-M

c. One complete kit of parts packed for shipment measures 4 x 4 x 15 inches and weighs two pounds.

4. Approximately 2 man-hours are required to accomplish this change.

5. The weight change effected by this change is negligible.

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

16 February 1948

AIRCRAFT AND MAINTENANCE PARTS

**NORTH AMERICAN—REPLACEMENT OF FUEL HOSE FROM SELECTOR VALVE
TO SHUT-OFF VALVE—P-51B, P-51C, AND P-51D**

NOTE As prescribed in T. O. No. 00-20A, appropriate reference to this Technical Order will be entered on AAF Form 60-A for the aircraft affected. The work directed herein will be accomplished as soon as possible and not later than the next 100-hour inspection period by service activities with the aid of base maintenance facilities, if necessary.

1. To prevent possible chafing of the fuel hose by the tire on the LH landing-gear wheel immediately after the gear is retracted, the fuel hose, between the selector valve and shut-off valve located in LH wheel well, will be replaced on the following listed airplanes, with a 3/4-inch outside diameter metal fuel line in accordance with the instructions contained in paragraph 2.

MODEL	AF SERIAL NOS.	MODIFI- CATION	KIT REQ
P-51C	42-102979 to 42-103978 incl	A	"A"
	43-24902 to 43-25251 incl	A	"A"
	44-10753 to 44-10902 incl	A	"A"
P-51D	44-13253 to 44-14252 incl	B	"B"

The following airplanes will be modified by the contractor prior to delivery:

MODEL	AF SERIAL NOS.	MODIFI- CATION	KIT REQ
P-51B	42-106429 to 42-106538 incl	A	"A"
	42-106541 to 42-106978 incl	A	"A"
	43-6313 to 43-7202 incl	A	"A"
	43-12093 to 43-12492 incl	A	"A"
	43-24753 to 43-24901 incl	A	"A"

MODEL	AF SERIAL NOS.
P-51C	44-10903 and subsequent
P-51D-NA	44-14253 and subsequent
P-51D-NT	44-11153 and subsequent including P-51K-NT airplane

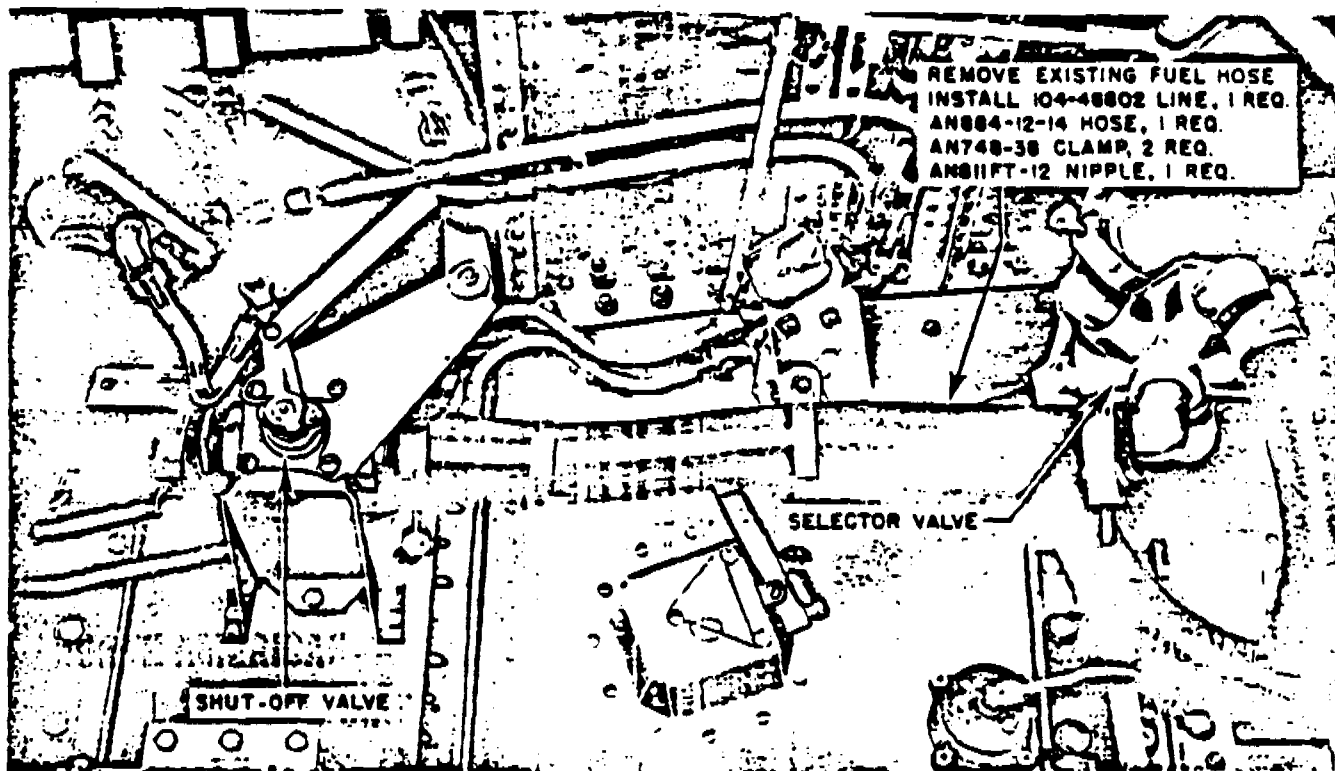


Figure 1 - Left-hand Wheel Well - P-51B and P-51C Airplanes

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.

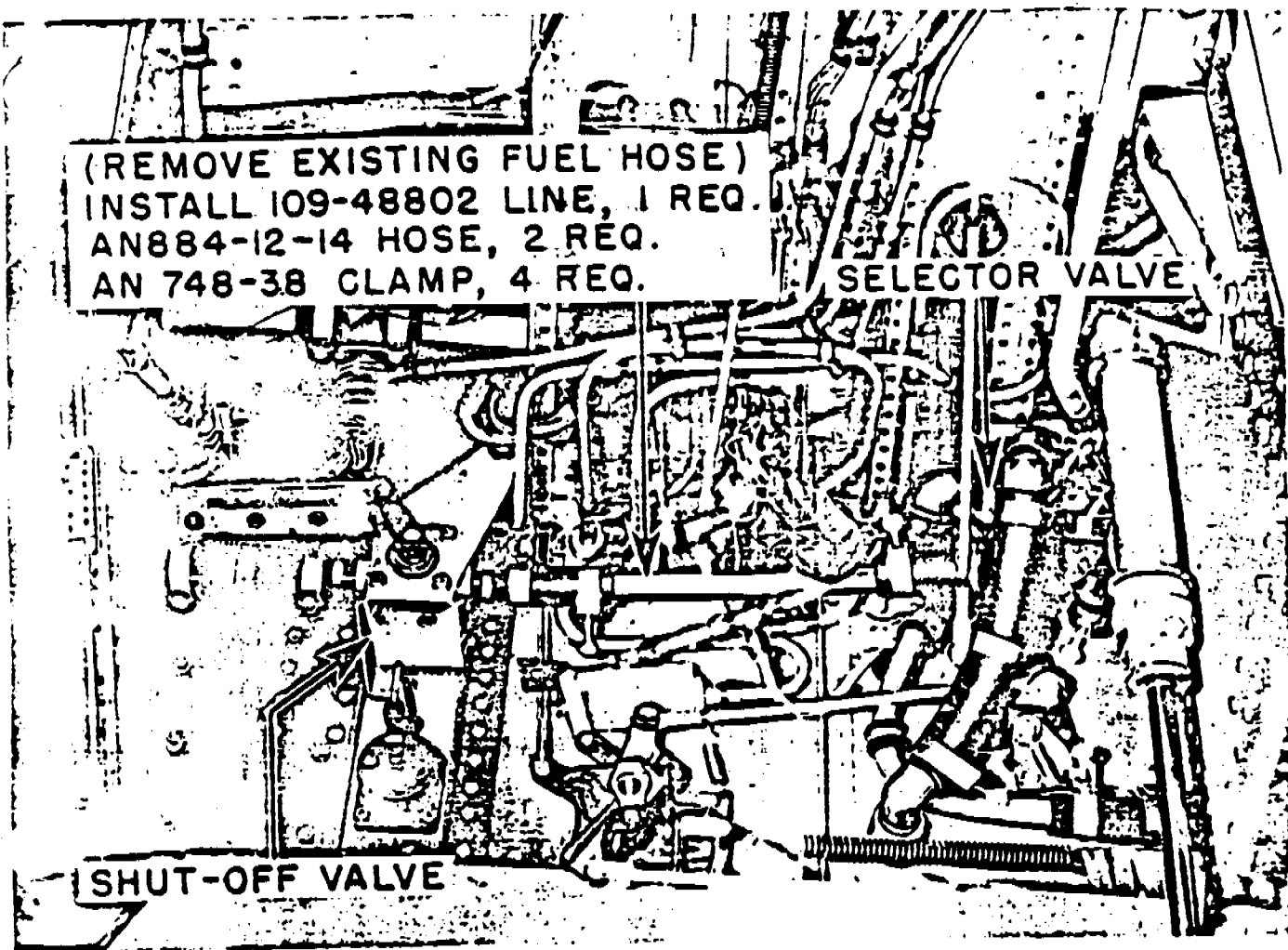


Figure 2 - Left-hand Wheel Well - P-51D Airplanes

2. The instructions for accomplishing this change as contained in North American Service Bulletin P-51-184, are as follows:

a. With combat tanks removed, turn fuel shut-off valve to "OFF" and fuel selector valve to either LH or RH combat tank.

b. Pull out emergency landing-gear fairing door knob and manually pull down LH fairing door.

c. The following instructions are for modification "A" and apply to P-51B and P-51C airplanes only.

(1) Locate the fuel hose, part No. 106-488101-22, in LH wheel well connected to the fuel shut-off valve and fuel selector valve. Remove the hose by detaching the clamps on each end and at the timing valve bracket on the center rib midway between the two valves. (See figure 1.)

(2) File or cut the timing valve bracket approximately $\frac{3}{16}$ inch to provide clearance for the new fuel line.

NOTE Temporarily place new line in position to determine proper edge of bracket to be cut.

(3) Remove nipple, part No. AN840-16, from fuel shut-off valve and replace with nipple, part No. 811FT-12.

(4) Install fuel line, part No. 104-48802, between fuel shut-off valve and fuel selector valve using one hose, part No. AN884-12-14, and two clamps, part No. AN748-38.

NOTE Make certain the maximum bend of the line is nearest the bulkhead.

(5) Push in emergency landing-gear fairing door knob and close LH fairing door.

(6) Turn fuel control valve to "ON" and fuel selector valve to "FUEL TANK" or "MAIN TANK" position.

d. The following instructions are for modification "B" and apply to P-51D airplanes only.

(1) Locate the fuel hose, part No. 106-488101-19, in LH wheel well, connected to the fuel shut-off valve and fuel selector valve.

(2) Remove hose, part No. 106-488101-19, by detaching the clamps on each end and the supporting clamp at the timing valve bracket. (See figure 2.)

(3) File or cut the timing valve bracket approximately 3/16 inch to provide clearance for the new line.

(4) Install fuel line, part No. 109-48802, using two hoses, part No. AN884-12-14, and four clamps, part No. AN748-38. Attach line to timing valve bracket using parts previously removed.

(5) Push in emergency landing-gear fairing door knob and close LH fairing door.

(6) Turn fuel control valve to "ON" and fuel selector valve to "FUS. TANK" or "MAIN TANK" position.

3. a. The following parts are required per airplane to accomplish this change. These parts are furnished as complete kits for initial installation and will be requisitioned in accordance with T. O. No. 00-35A-15. Parts required for maintenance after the initial installation will be requisitioned from the property classes as indicated.

QTY	STOCK NO.	PART NO.	NOMENCLATURE	CLASS	SOURCE
1	1300TO-01-40J34		KIT "A," "Replacement of Fuel Hose From Selector Valve to Shut-off Valve - P-51B and P-51C," consisting of the following parts:	15	AF Stock
1		104-48802	Tube Assembly	01-M	
1	6600-381190	AN884-12-14	Hose - Aromatic resistant 3/4 in. ID x 3-1/2 in. long	04-B	
2	6600-293378-55	AN748-38	Clamp - Hose, 1-3/16 in. ID	04-A	
1	6600-462000	811FT-12	Nipple - Solderless union triple 3/4 in. tube, 3/4 in. EPT	04-A	
1	1300TO-01-40J34		KIT "B," "Replacement of Fuel Hose From Selector Valve to Shut-off Valve - P-51D," consisting of the following parts:	15	AF Stock
1		109-48802	Fuel Line	01-M	
2	6600-381190	AN884-12-14	Hose - Aromatic resistant, 3/4 in. ID x 3-1/2 in. long	04-B	
4	6600-293378-55	AN748-38	Clamp - Hose, 1-3/16 in. ID	04-A	

b. The following parts removed in accordance with the preceding instructions, and all like items in stock will be condemned at once, and so tagged for disposition as condemned property.

PART NO.	NOMENCLATURE	CLASS
106-488101-22 or	Fuel Hose	01-M
106-488101-8	Fuel Hose	01-M
106-488101-19 or	Fuel Hose	01-M
106-488101-18	Fuel Hose	01-M

c. One complete kit of parts packed for shipment measures 4 x 4 x 15 inches and weighs two pounds.

4. Approximately 2 man-hours are required to accomplish this change.

5. The weight change effected by this change is negligible.

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