sig approval bomb racks p40 2 (915x1471x24b jpeg)

2517

RAARD 1055
File to 452.13

3 - APR 1943

R.A.A.F. Hendquarters, (Forward Echelon) Commonwealth Emildings, Adolaids Street, BRISHAME, QLD.

MODIFICATION TO KITTYHAWK AIRCRAFT TO PROVIDE FOR FITTING OF BOMB RACKS IN PLACE OF OUTBOARD GUNS.

Information received by this Command indicates that bomb racks and adaptors are being manufactured for fitting in place of the two outboard guns of Kittybawk Aircraft allowing the aircraft to be used as a six gun fighter or four gun Fighter Bomber at forty-five minutes warning, this being the time taken to complete the change over.

2. It is felt that this extension of the role of these aircraft is very desirable and it is recommended that the modification be adapted as standard for all R.A.A.F. Kittyhawks and that the modification be incorporated as early as possible.

Group Captain, For Air-Vice Marchal, AIR OFFICER COMMANDING,

R.A.A.F. COMMAND, A.A.F.

Squadron Leader, Ops. 3 2nd April 1943. sig approval bomb racks p40 3 (949x1156x24b jpeg)

501/20

DECEIVED IN REGISTRY RAAF. COMMAND Date 31.MAR 1943

Headquarters. No. 9 Operational Group, R.A.A.F .. Eval aven to 6

Secretary, Air Board, Victoria Barracks, St. Kilda Road, MELBOURNE, S.C.1. (Copy to A.O.C. R.A.A.F. Command.)

> MODIFICATION TO KITTYHAWK AIRCRAFT TO PROVIDE FOR FITTING BOMB RACKS IN PLACE OF OUTBOARD GUNS.

Kittyhawk aircraft of the U.S. Army Air Corps in this theatre have been modified to provide for the fitment of bomb-racks in place of the outboard guns, thus allowing the aircraft to carry two 300 1b bombs when necessary.

- This modification is considered by this Hoadquarters to be of great value, since it increases the potential striking power of the aircraft in an emergency, without detracting in any way from the performance in its primary role.
- The medification has been tried and tested on one aircraft of No. 77 Squadren, and the resultsof the trial were satisfactory in all respects.
- It is requested that permission be granted to modify all aircraft of Nos. 75 and 77 Squadrons. It would be appreciated if the matter could be treated as urgent, and the authority to carry out the modification communicated by signal as soon as possible.
- Technical details of the modification, together with photographs, are forwarded herewith.

452.13 Ali

(J.E. HENTTY) Air Commodore, AIR OFFICER COMMANDING.

NO. 9 OPERATIONAL GROUP, R.A.A.F ..

Encl:

sig approval bomb racks p40 4 (958x1492x24b jpeg)

MODIFICATION TO KITTYHAWK AIRCRAFT TO FIT BOMB CARRIERS IN FLACE OF OUTBOARD GUNS.

- 1. (a) Time required to cut and reinferce gun inspection door slot and fit Carrier adapter approximately four hours.
- (b) Time required to change back to guns after medification approximately three-quarters of an hour per aircraft.
- (c) Time required to change from guns to Bomb carriers once modification has been completed, approximately three-quarters of an hour per aircraft.
 - (d) The work of medifying requires:-
 - (a) A slot to be cut in the gun inspection deer for access to the release slip, and shackle.
 - (b) The fitment of an adapter in place of the gun to carry the American shackle.
- 5. In carrying out the above 2 (a) each gun inspection door will have to be measured and cut individually as there is a certain amount of telerance in the fitment of these doors. A piece of the panel to the rear of the ejection opening is removed to conform with the contour of the adaptor. The edges of the panel are then reinforced with a form of the same metal and rivetted.
- An adaptor already in service in the Fifth Air Force made especially for this purpose and holding the American shackle is then fitted in place of the gun. This adaptor is locally manufactured in Australia. The adapter is made of la" by a mild steel to represent the gun body having a front mounting bracket which mates into the yeke and is secured with a front mounting belt. The rear mounting bracket of the gun is removed and the rear mounting bracket of the adapter swung into position and secured in this position by the three bolts which held the rear mounting bracket. In the centre and to the rear of the adaptor side plates, is situated a solenoid which is connected to the gun firing solenoid circuit. This mechanism eperates the American release slip by pressure of the firing button with the switches in the "On" position for sutboard guns. The American shackle is securely belted between the side plates of the adapter, and bomb steadiers are attached to each end of the carrier, and can be lowered on to the bomb body and locked by tightening the clamping mut. The bomb steadiers are hard to adjust and some modification for easier access will eventuate.
- 5. Attached herete are photographs showing the modified gun inspection door and the adapter with shackle in place.
- 6. Materials necessary to complete this modification:

Per Aircraft. Adapters American Bomb carrier complete with Solonoids - 2 off.

sig approval bomb racks p40 (946x1186x24b jpeg)

16a

R.A.A.P. HEADQUARTERS, PORTAGE ROSELOS COMMONWEALTH GOVERNORNT OFFICES ANZAC SQUARE, ADELAIDE STREET, BRISBANK.

RAAF. COMMAND Date 6 - APR 1945

5th April, 1943.

File:

532/3/ARM.

From:

Commanding Officer, Forward Echelon.

To:

Air Officer Commanding, R.A.A.F. Command, (Attention Group Captain Gibson)

Subject:

MODIFICATION TO KITTYHAWK AIRCRAFT TO PROVIDE FOR FITTING OF BONB RACKS IN FLACE OF OUTBOARD GADE.

-3 L 500

Reference R.A.A.F. Command letter No.1055, File No.452.13, dated 3rd April, 1943, it is advised that such a modification was brought to the attention of S.E.S.O. Forward Echelon during an inspection of certain units in No.9 (Operational) Group.

2. Supply action has already been initiated and deliveries under R.A.A.F. ident number Ella/3082, "Sets Installation Special for Kittyhawk", are expected from the contractor early this month.

3.

It should be noted that Staff Officer Armanent R.A.A.F. Command was consulted prior to action being taken with R.A.A.F. Headquarters for supply.

A Group Captain,

Commanding Officer, Porward Echelon,

Porward Behelon, R.A.A.F. HEADQUARTERS. sig approval bomb racks p40 5 (922x1516x24b jpeg)

action Copy on dile 471 6 P. Comb Carriero

SERIAL NO. 4082.

CYPHER MESSAGE.

TO : RAAF HORS (R) RAAF COMMAND

FROM : FOWARD ECRELON

FE/Q395 18 MARCH

URGENT ATTENTION W/CDR ALDER (.) NO. 9 OF RATIONAL GROUP HAVE
REQUESTED IMMEDIATE SUPPLY OF 74 REPEAT 74 ADAPTER BOMB HACKS
COMPLETE WITH SOLENOID FOR FITMENT TO P40 AIRCRAFT (.) THESE
ARE QUICK CHANGE UNITS WHICH REPLACE OUTBOARD GUNS AND ARE
CAPABLE OF CARRYING 250 FOUND BOMB (.) ENABLE USE OF AIR CHAPT
AS FIGHTER-BOMBER AT VERY SHORT NOTICE (.) UNDITESTAND THAT
ITEMS ARE BEINGMANUFACTURED BY INTERNATIONAL HARVESTER GESLOND
FOR AMERICANS (.) REQUEST ADVISE 9 OF RATIONAL GROUP REPEATING
THIS ECHELON SUPPLY POSSIBLLITIES (.) WHEN AVAILABLE TO BE
FORWARDED TO 10 RSU (.) HAAP COMMAND CONCUR REQUEST

100 22 35/172

TOR 2341/17Z

THO 0014/18Z

TT 0328/18Z

THPORTARY

AJR

MINUTE SHEET

Reference

23.

A.O.C. les

Please see Enclosure 22A, 22B.

I have discussed this with Ops. 3 and he tells me that the adaptor for this bomb rack has, in fact, been sent up in sufficient quantities for 9 Ops. Group purposes. think the modification has some value as a change over from the 6 gun fighter to a 4 gun fighter, carrying two 300 lb. bombs, only takes 45 minutes, and vice versa.

Were it a question of permanently reducing the fime power from six .50 calibre to four .50 calibre guns, I would have been against it, but as the matter stands, it appears a satisfactory means of achieving efficiency in both primary and secondary roles.

31st Mar., 1943.

24.

I agree that this modification is very desirable in Kittyhawk aircraft and understand that, without further modification, Kittyhawks so modified are capable of carrying 2 standard R.A.A.F. 250 lb. G.F. bombs.

2. Will Ops. 3 write to R.A.A.F. Headquarters recommending that the modification be adopted as standard for all Kittyhawks of the R.A.A.F. and that the modification be incorporated as early as possible.

1. 4.43.

. Man . Lond

Air Vice-Marshal, AIR OFFICER COMMANDING.

2. 4.43 Signal A.88 to 9 (Ops) Group, re Bomb racks on Kittyhawk gircraft,

Signal cancelled - not forwarded.

Enol. 25A.

2. 4.43 Letter to R.A.A.F. Hors (Forward Echelon) re Modification to Kittyhawk Aircraft to Provide for Fitting of Bomb Racks in Place of outboard guns.

Encl. 25A.

26. .

5. 4.43 Twatch - 532/3/Arm - modificación to Killy Haw age to provide for fitting of some Rucks in Hack Ence 26a of authorize Guns

R.A.A.F. Form A 60 (May, 1936)

[OVER