Research on B-24 42-78193



Valerio Mungai Facoltà di Storia – La Sapienza University ROME



### Air wreck section found on the sea shore In Tor San Lorenzo – 41'53 N 12'35E (Anzio) in 1971

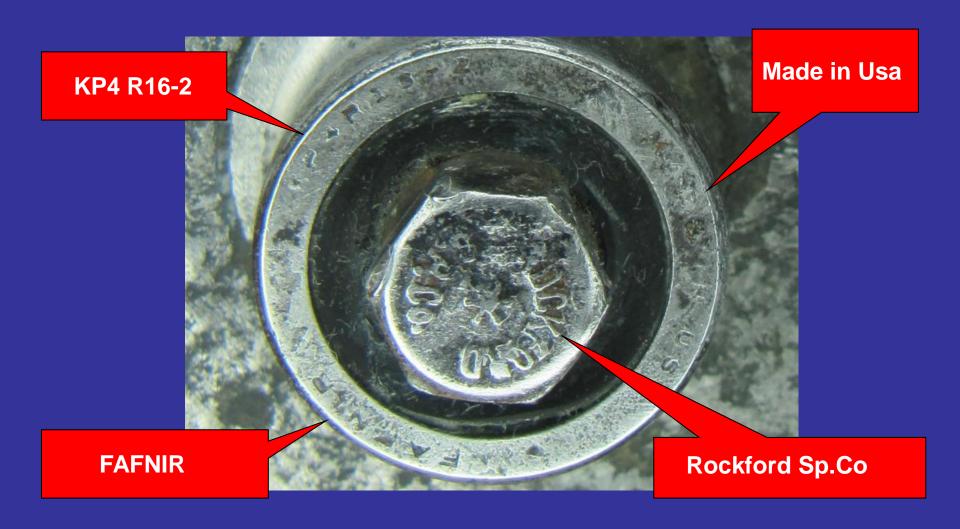


### Air wreck details



















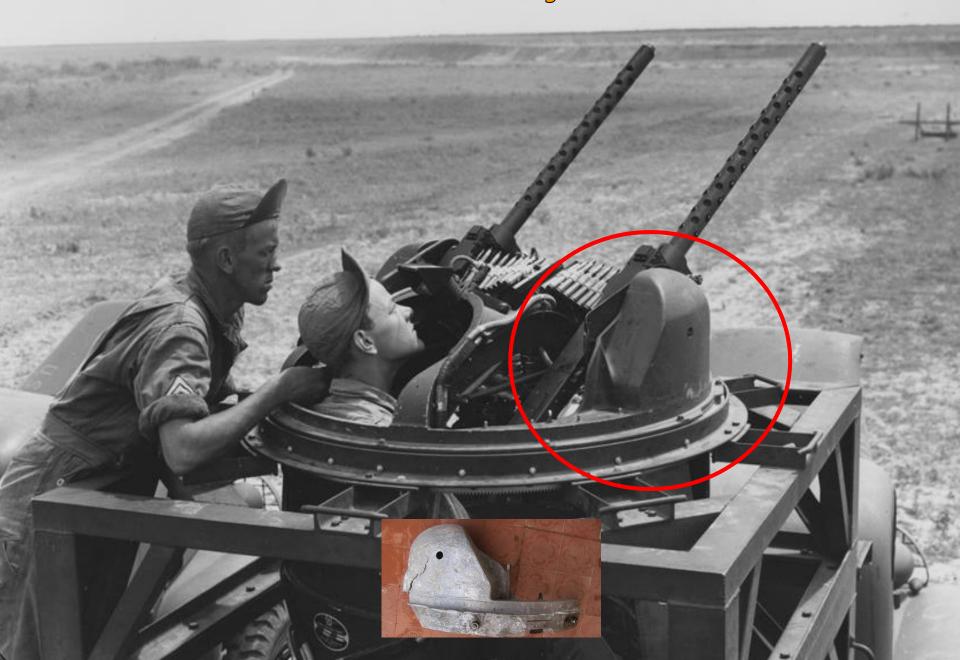




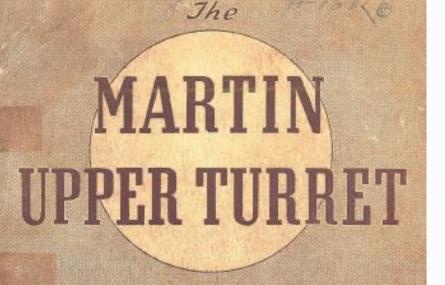




### Air wreck identification by internet research







MODELS A-3, A-3-A, A-3-B, A-3-C, A-11

## **Original instruction manual**



BRIGGS MANUFACTURING COMPANY

#### THE

### MARTIN UPPER TURRET

#### MODELS

A-3, A-3-A, A-3-B, A-3-C, A-11

AAF TYPE	MANUFACTURER'S	AIRPLANES
DESIGNATION	MODEL No.	USED ON
A-3-2	250CE-2	B-26-A
A-3-3	250CE-3	B-24
A-3A-2A	250CE-2A	B-26B
A-3A-6	250CE-6	B-26B1
A-3B-2A	250CE-3A	B-24
A-3C-4	250CE-4	B-26B1, B-26C
A-3C-5	250CE-5	B-24
A-3C-7	250CE-7	B-37
A-11-8A	250CE-8A	187B2
A-11-8	250CE-8	187B2, A-30A
A-11-10	250CE-10	A-20G





### The Martin Electric Upper Deck

MARTIN 250CE-7 through 21

The Martin Electric is one of the most widely used of all turrets. It is designed for quick action

dy when the chips are down.

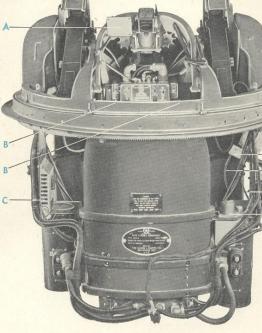
MARTIN UPPER TURRET

dels. Some of them are improvements over old models, like a new autoer than last year's. Some are simply designed for different kinds of e, the model which goes on the PV-1 is not quite the same as the one you can operate one Martin, you can operate them all. Using the Auxiliary

- A Gun camera bracket
- B Elevation and azimuth hand cranks
  (Below Control Unit)



- C Heated suit unit
- D Interphone jackbox and jacks
- E Oxygen regulator and gage
  (On some turrets regulator is below
  control unit, gage on left side)
- F Trouble light



You will find a demand type regulator for the oxygen system on your right arm rest—or, in a few Martin turrets, just below the control unit. The oxygen flow and pressure gage is on the left or right, just off your shoulder.

The source of oxygen supply depends on the plane. In the B-24 the supply is contained in two bottles bolted to the bottom of the seat. In the B-26 the supply comes from the plane's central tanks by tubing which enters a swivel joint in the floor below your turret.

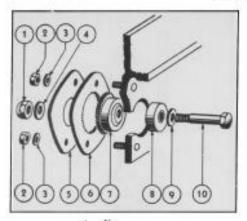
In all Martins the heated suit plug-in is above the left arm rest. The interphone jack box is to the right and forward of your right elbow. The trouble light is at the back of the right arm rest, and the gun camera bracket is just to the left of the sight.

Hand cranks for manual operation in emer-

gencies will be found below and behind control handles: the right crank for azi movement, the left crank for elevation. A ger switch in the handle of the right of fires both guns. (Some late models have a firing pedal mounted on the left side of footrest.)

To change to the manual system: 1) Shut of turret's master power switch. 2) Engage crank handle by pulling it from its cate. Hold on to the azimuth handle while againg the azimuth power clutch, then the elevation handle while disengaging the vation power clutch.

Before going back to power operation, be the cranks are disengaged and hooked up on their catches. If you leave them engo they will whirl around and may break you



- l Not
- 2 Washer
- Washer
- 4 Not
- 5 Block-Bearing
- 6 Hearing

7 Bolt

Figure 137-Down Roller

by spinning or rotating by hand. Replace any roller showing excessive play or any degree of binding.

Examine the index plate and the eccentric cog on the bearing block for damaged or worn cogs. Replace where necessary.

#### (4) REASSEMBLY.

(a) Start the roller, KP4R16-2, on the AN4-13A bolt by gently tapping with a small hammer. With a short length of metal rubing that snugly fits the bolt, tap the roller into place.

#### CAUTION

Scart the roller squarely on the bolt, and do not strike the outer ring or retainer.

(b) Place one AN960-416L washer on top of the roller, and then place the 266771 hearing block on the bolt. Tighten an AN364-428 nut over one AN960D416 washer.

#### (5) REINSTALLATION.

MARTIN

(a) Arach each adjustable 266859 up roller assembly to the two studs on the inner side of the turnable at the up roller locations, with one AN960D416 washer and one AN364-428 not on each stud, over the

e, and 266842 retaining placeollers so they touch the "high ig when revolved. They can be the two nuts bolding the re-, allowing the place to be ret the small exposed cog wheal and turn, not over one cog at a time, until the desired adjustment is obtained. Adjust up rollers so that inner casting and outer ring are parallel in horizontal plane and .002 to .004 vertical play exists. Lubricate bearing surfaces with graphic grease.

#### aa. DOWN ROLLERS. (See figure 137.)

 REMOVAL FROM TURRET.—Remove the two muts over the retaining study at each down roller location, and remove the down roller assembly.

#### (2) DISASSEMBLY.

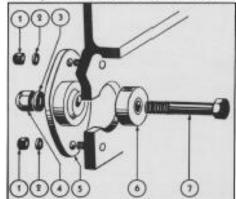
- (a) Remore the net and washer from the roller bolt and slide off the bearing block and roller.
- (b) Use special care when removing the roller from the bolt, since no pressure should be applied to the occur ring of the roller. A suitable bearing puller should be used.

#### (3) CLEANING, INSPECTION, AND REPAIR.

(a) CLEANING.—With a clean cloth remove all accumulated dirt from the component parts of the roller assembly.

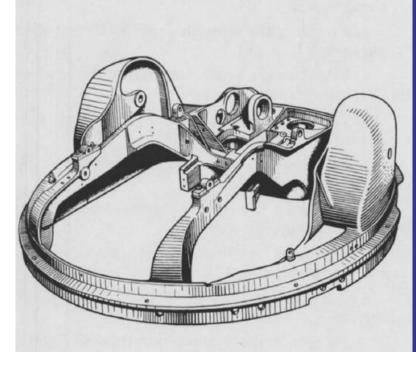
#### (b) INSPECTION AND REPAIR.

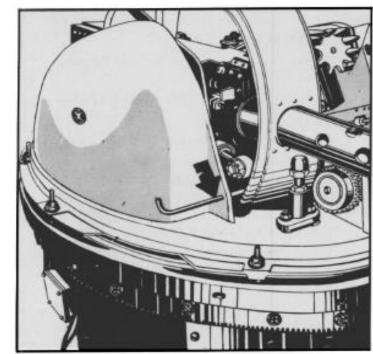
- 2. Check the bolt for proper size, straightness and freedom from burrs or rough spots. Replace any worn bolts as the roller seat on the shaft must be absolutely round, not rapered or oval.
- The rollers may be checked for condition by spinning or rotating by hand. Replace any roller showing excessive play or any degree of binding.



- i Nut
- Not.
- Woher
- 4 Washer
- 5 Place Recaiming
- 6 Collar-Indexing
- Block-Bearing
- k Roller 9 Washer
- o Bolt
- 11 Washer

Figure 138-Up Roller





#### EQUIPMENT-ELECTRICAL AND OXYGEN

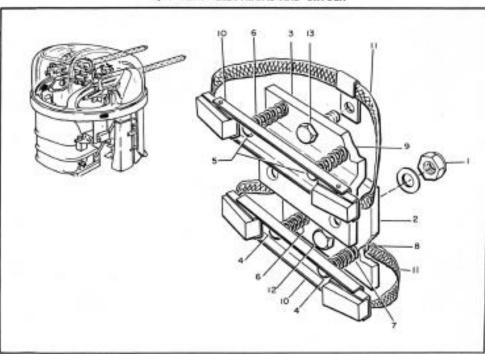
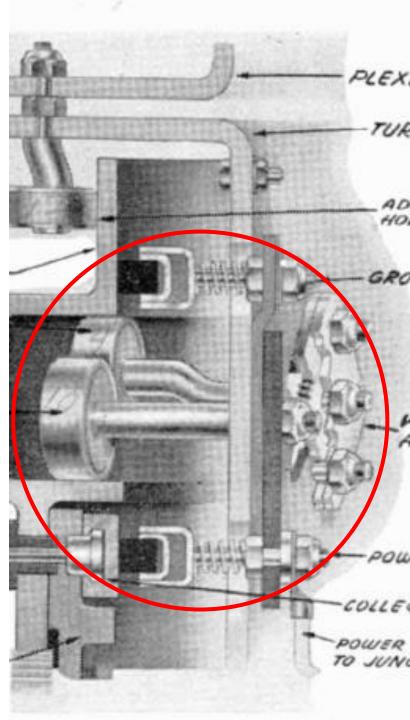


Figure 29. Power Brush Assembly

HG, A INDEX NO.	PART NO.	DESCRIPTION 1 2 3 4 5 6 7	PER ASSY.	CODE
29-	DOCKSHI	SRUSH ASSY, Power (See Squre 28 for NHA)		
100000	8810449G1	BRUSH ASSY, Power (See figure 29 for NHA)	1 1	- 02
	150CE0485	BRUSH ASSY, Ground clice Space 28 for NRA)	2	100
	9011446422	BRUSH ASSY, Ground (See figure 29 for MHA)	1	
-4	A3994-428	SUT	1 6	
1	ANSSE-416	WASHER THE THE PROPERTY OF THE	1	1010101
-3	2014/2014/0	SUPPORT, Brush mechanism	10	***************************************
777777	200/200518	SUPPORT. Brush mechanism	1 1	
-4:	2990 92519-2	STUD. Frush mechanism	1 1	
-5	2800782579-1	STUD. Brush medianism	1 1	
-4	180C Rheit	- SPRING, Brush tension	4	
- 02	AN160-6	· WARNER	- 1	
	A.50980-4	WASHER Specie	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	*******
-9 -10	150 CESSS	BPACES	- 1	
-10	250CESS09	- DRIDGE Brosh	- 1	*******
-11	250CE2400	DRESH ASSY	1 1	
	8011486P3	ATTACHING PARTE	100	
-13	35HC30488	+ BOLT	1	*******
The	10000	, WASHER	1.1	100000
She		4 NOT	1.1	
	NAME OF TAXABLE PARTY.	. BOLT	1	*******
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### Aircraft research MACR results



B 24 42-78193



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200		PSTRICTED
by	E	L3 11. 201., A0
by	P . K	MULBOR, Capt., av transporter transporter transporter
Dat	· · · · · ·	WAR 1 5 1946 WASHINGTON . TOLS
		IMPORTANT: This report will be compiled be such Armedian Forces organization vithin 46 hours of the time per purple are officially reported missing.
	1.	ORGANIZATION: LibrationSan Giovanni Air Base Command or AF 15th Squarron 737th Bomb Gp (H)
	2.	SPECIFY: Fount of Departur San Giovanni Air Bassurse 2050 Targo Genoa, Italy no of Dishoa Bombing
	3.	WEATHER COUDITIONS AND VISIBILITY AS THES OF CRUSH OR THEM LAST REPORTED:  Neather Good, Visibility 20 miles.
	4.	GIVE: (a) Date 5-19-14 Tire 1145 . Location 41 025 N 12035E of last from the readoute of Having already.
		(b) Specify whether: (X Last Sighted ( ) Last Contacted by Radio   Forced Form ( ) Seen to Grash; or     h.fo.marion not available.
	5.	AIRCRAFT MAS LOST, OR IS BELIEVED TO HAVE DEDY LOST, AS A ARSULT OF: (Check only one)  ( ) Enemy Aircraft ( ) Enemy Anti-Aircraft (T) Other Circumstances as follows:  Unknown
	5	.IPCLIFT: Type, Model & Series 1-24H F Serial No 42-78193
		CaGINES: Typo, Model & Series R-1830-43 F Serial NO (a) 42-89832 (b) 42-89845 (c) BF-426309 (d) BF-426007
		INSTALLED WELPONS: (Furnish below Hake, Type, and Serial Humber)  (a) Information not available. (c) (a) (b) (c) (d)
	9.	PERSONNEL LISTED BELOW REPORTE ) .S: (X) Battle Casualty ( ) Non-Battle Cas.
		NUBER OF PERSONS ABOARD MERCRAFT: Crow 10 Passengers 0 Total 10 (Starting with "Pilot" furnish the following particulars; if more than 12 persons were aboard list similar particulars on separate sheet and attach to this form)
TD	1.	CREW POSITION (Last Name First) RANK SERIAL NO SULP AND ADDRESS FILOT STROM, Kenneth W. V 2nd Lt 0691422 Strom, Gustave W., Q.D
14		Filot STROM, Kenneth W. V 2nd Lt 0591422 Strom, Custave W., Q.D. Pather, 315 E. 69th Fl. Chicago, Ill. CP/ SWEETLAND, John A. (2nd Lt 0691423 Sweetland, L.O.)
A	3.	WAY HAASE Pudolph P. Father, 43 Delray Rd., Rochester, N.Y
D	h.	DOING ABNORDANG WALLES AND THE
	5	BOMB ARMSTRONG, William M. 2nd Lt 0688294 Armstrong, Carmen, Mother, 620 Jones St., San Francisco, ENG & BRJUILLETTE, Normand E. T/Sgt 11110921 Brouilletts, Albertin Mother, 390 E. School St. Woonsocket.
4	4	Mother, 390 E. School St Woonsooket,
/3	6.	RO RICH, Robert D. Woohsooket, T/Sgt 38388409 Rich, Amie, Mother, Singhoro, Lo.
TD	7.	AEG CARPENTER, Millard (n) S/Sgt 35739722, Carpenter, Iza, Mother Diana, W. Va. PO Box #5 AEG HAZEL, William C. Jr. S/Sgt 33452672 Hazel, Marion, Mother
4	8.	ARG HAZEL, William C. Jr. 8/8gt 33452672 Hazel, Marion, Mother, 4550 MoArthur Blvd. Washington, DZ.
		CONSTDENT.

B 24 42-78193



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#### CONFIDENTAL

RTO	9.	AAG SITTH, George O.	S/Sgt 35527273, Smith, Frank W.
TO	10.	AG CHENTIRY, Temple V. Jr.	S/sgt 1218867 Hentley, Temple V. Art Facher, 23 N.Columbus Ave., Mt. Vermon
	11.		NaTe
	12.		
	11.	IDEATIFY BELOW THOSE PERSONS WERD CRAFT JUD CHECK APPROPRIATE (only	THE SEAR OF TO HAVE LAST KNOWLEDGE OF AIR-
		MAN STATE	Co. ctnd Last Saw NO By halto Sighted Crash Perced Lundin
	2	Smith, Kenneth C. 2nd Lt. W. No other witness available	
	6.		
	12.	IF PERSONNEL .RE RELIEVED TO h.W. {    Parachutes were used ( ) Person the property of the pro	SURVIVED, CHECK ONE OF THE POLLOWING: one scen walking away from scene of crash to information available
	134	ATT.CH, AS AN ANGLOSUME TO MIS K OR SKETCH, SHOWING APHIOXIBLES AND	epory, entity about protocologi, buy, olda: Cation hale likologi has list seem.
	14.	ATT.CE, AS INCLOSURES TO THIS BREFORD LANDING, OR OTHER CIRCLEST	CAT, EYEATTERS DESCRIPTIONS OF CRASH,
	15.	SELECH, IF MY. AND GIVE MANE; MA. C. AGE HERE: (if no sourch, so s	EPRRY, DESCRIPTION OF THE EXTENT OF II, ID SERIAL NUMBER OF OFFICER IN tate giving roason) No search by this sighted over enemy territory.
			Date of this Report: 22 May 1944
			Robert Lellivan
		Inole: Inol 1 - Inol 2 -	ROBERT L. SULLIVAN, lst Lt., Air Corps, Adjutant;
	1 .		
		1	
			Egg. St. January Charles (16
	5.0	BECEIAED	Service Commission of the
		(F)	
		CONTRACTOR	

B 24 42-78193



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US CONFIDENTIAL Equals British CONFIDENTIAL

HEADQUARTERS
757TH BOMBARDMENT SQUADRON (H) AAF
454TH BOMBARDMENT GROUP (H) AAF
APO 520 US ARMY

ATRIS/dks

360.33

23 May 1944

SUBJECT: Missing Air Crew Report.

TO : Commanding Officer. 454th Bombardment Group (H) AAF, AFO 520, U. S. Army.

Transmitted herewith Missing Air Crew Report on Lt Kenneth W.
 Strom and crew, Missing In Action over Anzio, since May 19, 1944.

2. Battle Casualty Report was sent May 22, 1944.

For the Commanding Officer:

1 Incl: Incl 1-MAC, It Kenneth W. Strom > Crew missing in action since 19 May 1944. W/2 Incl (Sext.) ROBERT L. SULLIVAN, 1st Lt., Air Corps, Adjutant.

360.33 1st Ird. a/CEC/ljp. HQ. 454TH BOMB GP (H) AAF, APO 520, U, S. Army, 24 May 1944.

TO: Commanding General, 304th Bomb Wing (HV), APO 520, U. S. Army.

1. Attention is invited to basic communication.

2. Battle Casualty Report forwarded your headquarters 22 May 1944.

3. Missing Air Grew Report submitted in accordance with Matousa Gircular No 10, 4d 2h January 1964.

For the Commanding Officer:

CHARLES E. COX III, XTC.
Major, Air Corps,
Ad Jutant.

I Inols: MEC Rpt Lt Strom and Crew MIA since 19 May 14, w/2 Inol (Sext)

B 24 42-78193



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Rapporto dei testimoni oculari

US CONFIDENTIAL EQUALS BRITISH CONFIDENTIAL

HEADQUARTERS
737TH BOMBARDMENT SQUADRON (H), AAF
454TH BOMBARDMENT GROUP (H), AAF
APO #520 US ARMY

22 May 1944

#### STATEMENT

I last saw airplane number 42-78193 about 1145 near the beachead. He has his number three (#3) engine feathered and he fell back from the formation very rapidly. I did not notice anything else wrong with the plane.

KENWETH C. SMITH, 2nd Lt., Air Corps,

US CONFIDENTIAL EQUALS BRITISH CONFIDENTIAL

Inel 1

B 24 42-78193



11:45 del 19.5.1944

41'25 N 12'35 E0

#### US CONFIDENTIAL EQUALS BRITISH CONFIDENTIAL

HEADQUARTERS
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454TH BOMBARDMENT GROUP (H), AAF
APO #520 US ARMY

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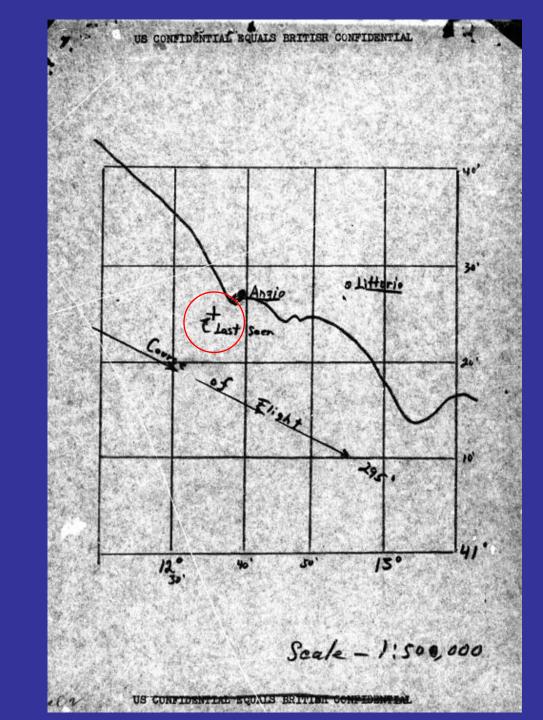
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## S.Giovanni - Cerignola airbase - 454° BG



454TH BOMBARDMENT GROUP HEADQUARTERS

## B-24 42-78193 Crew

### **MACR 5442**

RTO 1	CREW POSITION (Last Name First) Filot STROM, Kenneth W.
KIA 2	CP SWEETLAND, John A.
KIA 3	NAV HAASS, Rudolph P.
RTD 4	BOMB ARMSTRONG, William M.
KIA 5.	ENG & BROUILIETTE, Normand IS
EUS 6.	RO RICH, Robert D.
RTD 7.	AEG CARPENTER, Millard Vin
KIA 8.	ARG HAZEL, William C. Jr.
RTO	9. AAG 'SMITH, George O. /
RTD	10. AG / BENTIRY. Temple V. JY.



RTD	Return to duty
KIA	Killed in action
EUS	Evacuated in US

## 454° BG 737° Sqd. B-24 42-78193 Crew





Lt William Monson 'Bill' Armstrong

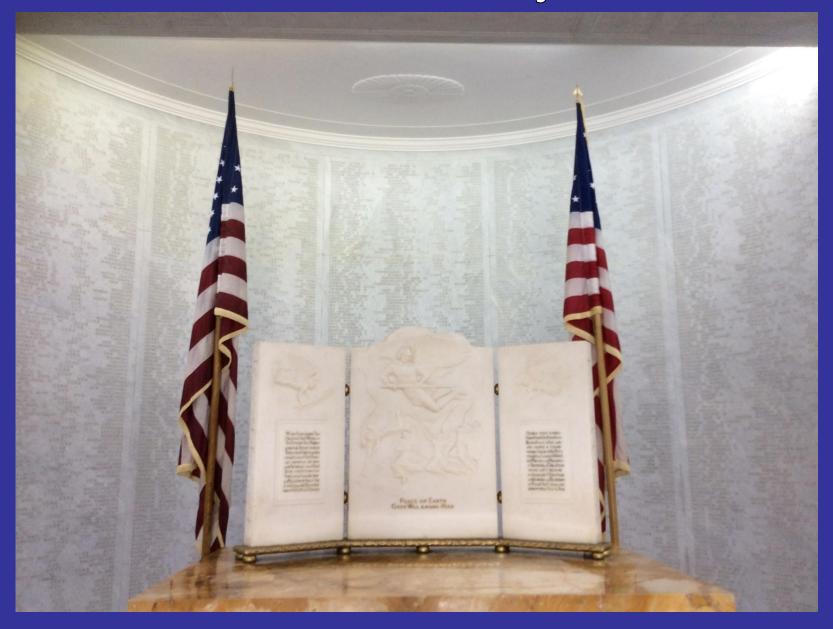
## 454° BG 737° Sqd. B-24 42-78193 Crew

On May 19,1944, Bill's B-24 (42-78193) was shot down on a mission out of San Giovanni Air Base to hit a partially sunken Heavy Cruiser in the harbor of Genoa, Italy. The plane with crew was reported missing in action, and next of kin were informed. This was Bill's 25th mission. The B-24 was badly shot-up by 88mm flak and JU-88's. With all the engines out, all the controls out except the elevators, and the bomb bay doors stuck in the open position, they had to "fly it" into the water to avoid a stall. The B-24 broke-up on impact. The main wing and forward fuselage remained intact and afloat, with the nose section pointed up toward the sky. Six men initially surfaced from the crash. All were injured. One, a distance from the others, was holding fast to the wing. He went down still holding on to the wing when the forward section sank. All but one of the remaining aircrew were able to inflate and board a ten man life raft. One man (believed to be the Co-Pilot) was only able to hang-on to the raft due to his injuries. As they tried to bring him aboard there was an explosion - thought to be a 20mm shell. The raft was suddenly full of holes. That man went down with the raft when it sank, the rest were all back into the water. After approximately four hours clinging to a "walk around" oxygen bottle for flotation, Bill along with the Pilot, Radio Operator and Tail Gunner were spotted by the Pilot of a patrolling P-39 Air Cobra responding to thier May Day. He dropped a life raft to them that immediately sank. A British Air/Sea Rescue Supermarine Walrus amphibious biplane was dispatched to pick them up. Once the four were aboard, the aircraft began taking on water and was now too heavy to fly. To save his own aircraft, the Pilot ordered the men back into the water, A British Medical PT boat had arrived in the meantime. A life raft was sent to transfer them over. After two trips with the raft, the surviving crew were taken to safety and much needed care at a British Field Hospital on the island of Ischia. (From interview December 7, 2001)





### Lt William Monson 'Bill' Armstrong Testimony



737 BOMB SQ 454 BOMB GP (H)



Aeg William C. Hazel Jr

737 BOMB SQ 454 BOMB GP (H)

## 2 Lt Rudolph Haase

737 BOMB SQ 454 BOMB GP (H)

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BROOKS
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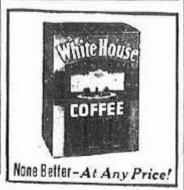
## T Sgt Normand Brouillette

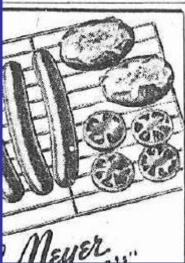
## 454° BG 737° Sqd. B-24 42-78193 Crew



### Mt. Vernon Soldier Keeps Vow. Carries Buddy's Gift To Mother

buddy kept the vow and a bereaved pier today.





WOONSOCKET, R. I., (AP) - A | mother, through her tears, is hap-

A few months ago, in Italy, the ten-man crew of a B-24 bomber agreed that, should anything happen to any, one of those left behind would deliver gifts to "the folks at home."

In that crew was Technical Sergeant Normand George Brouillette, nineteen, son of Mr. and Mrs. George Broudlette of Woonsocket. Another crewman was Staff Serseant Temple Bentley of Mount Vernon, N. Y.

Nermand purchased a bracelet, a necklace and a rosary for his

Later, over the Italian coast, enemy fire wreeked the big plane. Nine of the ten aboard got away. Three died later, But Brouillette went down with his ship.

Back in the barracks, Sergeant Bentley, recuperating after the fracture of a leg, gathered the gifts Normand had bought.

Now back home. Sergeant Bentley has delivered the trinkets to Mrs. Bromiliette, remarking: "This is the only time I've had to do anything like this, and I certainly hope it never happens again."

Mrs. Broudlette smiled as the scrueaut handed her the articles Normand had bought for her,

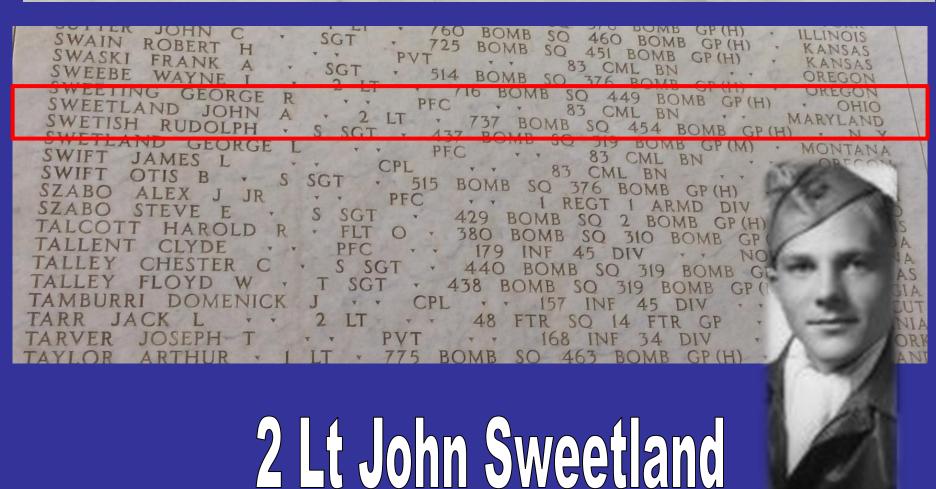
"It makes me so happy," she told him. "I den't knew how to thank

"It was what we agreed to do."

Mrs. Brouillette just looked up. She said nothing.

### **T Sgt Normand Brouillette**

737 BOMB SQ 454 BOMB GP (H)



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