



# SUGGESTION

### HOW TO MAKE YOUR SUGGESTION

**DISCUSS:** Discussion with your supervisor is encouraged.  
**COMPLETE:** Complete all blank spaces in Sections I and II, except "Suggestion No." In Section III enter "Subject Of Suggestion" and your name and mailing address.  
**SIGN:** Be sure to sign your suggestion in Section I.  
**ADD:** Use additional sheets for drawings or pictures when necessary. Attach separate sheet for co-suggester's Personal Data Information.  
**SUBMIT:** Suggestion may be submitted through your supervisor, placed in a suggestion box, or mailed to the Suggestion Committee.

**IMPORTANT!** SUBMIT ALL SECTIONS OF THIS FORM - DO NOT DETACH ANY SECTION.

### SUGGESTER'S PERSONAL DATA

I.			NAME OF SUGGESTER (Last, First, Middle Initial)		HOME OR MAILING ADDRESS	SUGGESTION NO.
			Yocum, Walter E.		RD #5 Box 169 Dover Del.	
<input checked="" type="checkbox"/>	MR.	MISS	WB-10 GRADE	POSITION TITLE		
<input type="checkbox"/>	MRS.	MILITARY	MILITARY	Jet Engine Mechanic		
INSTALLATION			Dover AFB. Dover Del.	ORGANIZATION AND/OR SYMBOL	OFFICE PHONE	
SUBJECT OF SUGGESTION			Exhaust Case Aligning Pins and Brackets			
I HEREBY AGREE THAT, UPON ACCEPTANCE OF A CASH AWARD(S), THE USE OF THIS SUGGESTION BY THE UNITED STATES SHALL NOT FORM THE BASIS OF A FURTHER CLAIM OF ANY NATURE UPON THE UNITED STATES BY ME, MY HEIRS, OR ASSIGNS.			MAY YOUR NAME BE USED DURING THE PROCESSING OF THIS SUGGESTION? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (If "No", do not complete first line in Section II.)			
DATE			SIGNATURE OF SUGGESTER			
			Walter E. Yocum			

### II. SUGGESTION

NAME OF SUGGESTER		ORGANIZATION AND/OR SYMBOL	OFFICE PHONE
Walter E. Yocum		436th FMS TEBUJ-75	268
I BELIEVE THIS SUGGESTION WILL			
<input checked="" type="checkbox"/> SAVE TIME	<input checked="" type="checkbox"/> SAVE MATERIAL	<input checked="" type="checkbox"/> IMPROVE METHODS	<input type="checkbox"/> IMPROVE SAFETY
		<input checked="" type="checkbox"/> SIMPLIFY WORK	OTHER (Specify)
DESCRIBE SUGGESTION COMPLETELY. TELL WHAT THE PRESENT PRACTICE IS. CHANGE THAT IS SUGGESTED. WHERE AND HOW IT CAN BE USED. AND BENEFITS TO BE DERIVED FROM ITS USE. (If suggestion is hand-written, please use black pencil or black ink, if possible.)			

Typed & Submitted  
 21 July 66  
 (Signature)

(Continue on Reverse)

AF FORM 1000  
 ocr 63 PREVIOUS EDITIONS OF THIS FORM WILL BE USED UNTIL STOCK IS EXHAUSTED.

### III. SUGGESTION ACKNOWLEDGEMENT

SUBJECT OF SUGGESTION	SUGGESTION NO.
Exhaust Case Aligning Pins and Brackets	
THANK YOU FOR YOUR SUGGESTION. IT HAS BEEN ASSIGNED THE ABOVE SUGGESTION NUMBER. CAREFUL CONSIDERATION WILL BE GIVEN YOUR SUGGESTION, AND YOU WILL BE INFORMED WHEN ACTION IS TAKEN. YOUR INTEREST IN PRESENTING THIS IDEA IS APPRECIATED.	
DATE	EXECUTIVE SECRETARY, AWARDS COMMITTEE

TV:

Walter E. Yocum  
 RD#5 Box 169  
 Dover Del.

**IMPORTANT!**  
 Please print your name and mailing address (home or office) in the space provided at left, keeping within the printed corner marks.







**SUGGESTION EVALUATION**

DATE  
24 Aug 66

TO: (Use complete address)

FROM: (Use complete address)

BAPDC-S

36 FMP/REBU

1. SUGGESTION TITLE  
**Exhaust Case Aligning Pins & Brackets**

2. SUGGESTION NUMBER  
**67-36C**

3. ACTION TAKEN OR RECOMMENDED (Check pertinent box and furnish information according to instructions therein)

A. NOT RECOMMENDED FOR ADOPTION (Give reasons in item 7): SUGGESTION  MAY  MAY NOT BE OF VALUE AT A LATER DATE. IF YES, ALSO EXPLAIN IN ITEM 7.

B. ALREADY UNDER CONSIDERATION

EXPLAIN ORIGIN OF ACTION IN ITEM 7. INCLUDE ALSO WHETHER OR NOT THIS SUGGESTION, PARTIALLY OR TOTALLY, CONTRIBUTED TO THE ACTION. IF YES, COMPLETE ALL OTHER ITEMS ON FRONT AND REVERSE SIDE.

C. ALREADY IN USE

D. RECOMMEND ADOPTION, BUT APPROVAL NOT WITHIN JURISDICTION OF THIS OFFICE (Complete all other items on front and reverse side, and forward to authority having jurisdiction over subject matter for consideration in accordance with AFR 40-471 or AFR 35-12)

E. APPROVED FOR ADOPTION (Complete all other items on front and reverse side)

TOTALLY	PARTIALLY (Explain)	DATE OF ADOPTION	METHOD OF ADOPTION	MANDATORY OR OPTIONAL USE
<input checked="" type="checkbox"/>				

F. OTHER RECOMMENDED ACTION (Specify in item 7)

4. TANGIBLE BENEFITS. FIRST YEAR TANGIBLE BENEFITS WILL BE CALCULATED IF AT ALL POSSIBLE. USE TABLE BELOW. OR, IF INAPPLICABLE, GIVE A DETAILED BREAKDOWN OF BENEFITS UNDER ITEM 7 "REMARKS". USE ADDITIONAL PAPER, IF REQUIRED.

A. FACTORS	LABOR			MATERIAL			TOTAL COST OF LABOR AND MATERIAL	
	MAN-HOURS INVOLVED	COST PER MAN-HOUR	TOTAL COST	NUMBER OF UNITS	COST PER UNIT	TOTAL COST		
FORMER METHOD	240 Hr.	3.50	840.00	60 48	2.50	150.00	\$ 990.00 960.00	
NEW METHOD	48 HR	3.50	168.00	60 48	0	0	\$ 168.00	
TOTAL DOLLAR BENEFITS							\$ 990.00	792.00

B. COST OF CONVERTING TO NEW METHOD		
MAN-HOURS		\$ 3.50
MATERIALS AND/OR EQUIPMENT		\$ 2.00 4.00
TOTAL COST		\$ 5.50 7.50

C. TOTAL FIRST YEAR NET DOLLAR BENEFITS (Labor and material less cost of conversion)	
ACTUAL	\$ 984.50 784.50
<input checked="" type="checkbox"/> ESTIMATED	

5. INTANGIBLE BENEFITS (Non-measurable)

A. SUGGESTION IMPROVES

SAFETY  MORALE  WELFARE   DAILY OPERATIONS  HEALTH  OTHER (Explain in item 7)

B. SUGGESTION IS

BETTER ADAPTATION OR MORE EFFICIENT OPERATION WITH RESTRICTED USEFULNESS. SAFETY IMPROVEMENT REDUCING HAZARDS THAT COULD RESULT IN MINOR INJURY OR POSSIBLE LOSS OF TIME FROM WORK.

BORROWED APPLICATIONS WITH HIGH DEGREE OF USEFULNESS. SAFETY IMPROVEMENT ELIMINATING HAZARDS THAT COULD RESULT IN INJURY OR LOSS OF TIME FROM WORK.

NEW PRINCIPLE OR INVENTION WITH VERY OUTSTANDING USEFULNESS OR VALUE. SAFETY IMPROVEMENT ELIMINATING HAZARDS THAT COULD RESULT IN LOSS OF LIFE OR FACULTY.

OTHER (Explain in item 7)

C. SUGGESTION AFFECTS

<input type="checkbox"/> SMALL	NUMBER OF EMPLOYEES OR AREA OF OPERATION LOCALLY.	
<input type="checkbox"/> LARGE		
<input type="checkbox"/> SMALL	NUMBER OF EMPLOYEES OR AREA OF OPERATION AT SEVERAL INSTALLATIONS WITHIN (Check applicable box)	<input type="checkbox"/> ONE MAJOR AIR COMMAND
<input type="checkbox"/> LARGE		<input type="checkbox"/> SEVERAL MAJOR AIR COMMANDS
<input type="checkbox"/> SMALL	NUMBER OF EMPLOYEES OR AREA OF OPERATION AIR FORCE-WIDE	
<input checked="" type="checkbox"/> LARGE		

6. LIST OF ATTACHMENTS

NAME, TITLE AND ORGANIZATION OF EVALUATOR (Include telephone extension)

SIGNATURE, TITLE AND ORGANIZATION OF RESPONSIBLE OFFICIAL

OLIVER M. TUCKER, CMSgt., USAF  
Line Chief

WILLIAM A. AMBRE, 1st LT., USAF  
Assistant Staff Maintenance Officer



7. REMARKS The uses of this tool will eliminate the replacement on each engine of 3"O"-ring gaskets, chevron seal gasket and 30 tabwashers during the assembly of each engine.

8. DEFICIENCY REPORT (Complete if suggestion formed the basis for administrative deficiency reports as required by governing directives. Specify type and/or number and date submitted.)

9. DESCRIBE OLD METHOD (Include references to part numbers or other specification data and proscribing directives as appropriate.)

The old method of installing the exhaust case on the J75 Engine, is to completely disassemble the #6 oil sump. This includes the removal of the afterburner flame holders, rear cone, two heat shields, cover for the #6 bearing oil tubes and brackets, to gain access to the oil jet which projects into the 4 1/2 bearing oil cooling tube. This task is to prevent damage to the oil tube and carbon seals on the #6 hub during installation of the exhaust case to the nozzle case, due to misalignment of the components. This operation normally takes 5 manhours. One hour to disassemble the area, and 4 manhours to assemble it.

TYPE	NUMBER OF EMPLOYEES OF VARY OF OBSERVATION THE LOSS-MADE	SEVERITY RYDRE THE COMPANY
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TYPE	NUMBER OF EMPLOYEES OF VARY OF OBSERVATION TOCVIA	

10. DESCRIBE NEW METHOD (Include advantages over old method, changes required, and disposition of resources saved if applicable. Indicate also scope of application, that is local, command or Air Force-wide use, etc.)

The new method of installing the exhaust case to the nozzle case with the uses of the special aligning pins and brackets made, will eliminate the need for disassembly of the #6 oil sump. The alignment pins and brackets attach to the outside diameter of the exhaust case assembly, secured to the jackscrew holeports of the case. Once the aligning pins start through the bolt holes on the outside diameter of the nozzle case the exhaust case can then be installed with perfect alignment, and no possible damage to the oil tube or carbon seals on the hub. The use of this tool will result in a saving of material at a cost of \$2.50 per engine. It can be used local or at other installations which uses the J-75 Engine.