

## **California Institute of Technology Massachusetts Institute of Technology**

# DCN No. E040345-00-K

Document Change Notice (DCN)		Sheet 1 of 2		
DOCUMENT No.  D040296-A-K  D040297-A-K  D040298-A-K  NOTE: - Blades released to an A	TITLE BOTTOM BLADE SPRINGS MIDDLE BLADE SPRINGS TOP BLADE SPRINGS A revision with E040312-00-K	N	EW REV B B B	
CHANGE DESCRIPTION (FROM	I / TO):			
Release level change FROM A TO B Holes in blade tip reoriented FROM across th Blade tip narrowed FROM 15mm TO 10mm Date format changed FROM DD/MM/YY TO Next assy changed FROM Upper TO Top Ma	O DD/MMM/YY			
CONTINUED ON PAGE 2 of 2				
REASON FOR CHANGE: Blade tip This required the holes to be re-oriented with that orientation on the 2001 protot convention. Notes on drawing changed	d. The other two blades were changed type and the Blade test facility. Title of	l to match an	d to build on	experience
CTION:	Attach DCN to Drawings	Other Action (s	pecify):	
DISPOSITION OF HARDWARE (IDENTIFY SERIAL NUMBERS)			DCN DISTRIBUTION	
No hardware was affected (record change only):		Barish	Coyne	Fritschel
List S/Ns which comply already:		Giaime Raab	Lazzarini Shoemaker	Lindquist Sibley
List S/Ns to be reworked/scrapped:		Sigg Whitcomb	Tyler	Weiss
List S/N's to be built with this change:			Worden Greenhalgh	Hough Strain
List S/Ns to be retested per this change:				2 1- 11
		J. Romie		
AFETY, COST, SCHEDULE, REQUIREMEN	TS IMPACT? NO YES (If Y	ES, enter CR (C	CB) or TCP (TR	B) #)
APPROVALS:	DATE OTHER APPROVALS (SPE	CIFY)		DATE
RIGINATOR: I Wilmut	20JUL04 COG. SCI.:	NA record cha	ange only	
ROJECT MANAGER: NA record char	GOG ENG (UG) G 1	um I. Tori		23JUL0
. INVESTIGATOR: NA record cha	CUCLEADED & CE.			
OCC RELEASE.	P.M. (US):	NA record ob	ango only	



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# **Document Change Notice (DCN)**

DCN No. E040345-00-K

Sheet 2 of 2

**TITLE** DOCUMENT No. **NEW REV** 

### **CHANGE DESCRIPTION (FROM / TO):**

CONTINUED FROM PAGE 1 of 2: -

Notes changed to incorporate recommendations from Ed Jasnow, Calum and Janeen and the blade committee. In short we re-ordered the notes and specified the machining process as follows: -

### **FROM**

### NOTES: (UNLESS OTHERWISE SPECIFIED)

- I. REMOVE ALL SHARP EDGES. R. 02 MIN.
- 2. DO NOT SCALE FROM DRAWING.
  3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410 (STAINLESS STEEL)
- 4. SCRIBE, ENGRAVE OR STAMP DRAWING PARTNUMBER ON NOTED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT OOI FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE .07" HIGH CHARACTERS. EXAMPLE: DOZDIBB- ODI. A VIBRATORY TOOL MAY BE USED
- 5. INTERPRET DIMENSIONS PER: ANSI Y14.5 1982
- 6. PRIOR TO DELIVERY HARDEN BY HEAT TREATMENT AT 435°C FOR 100 HOURS AND AIR COOL
- 7. DURING HEAT TREATMENT THE PART MUST BE SUPPORTED SO THAT IT DOES NOT CHANGE RADIUS DUE TO SELF WEIGHT

### TO

- 1) DO NOT SCALE DRAWING.
- 2) INTERPRET DIMENSIONS PER ANSI Y14.5 1982
- 3) ALL MACHINING FLUIDS .....
- 4) FABRICATE FROM SHSEET MATERIAL; FORM RADIUS BY ROLLING.
- 5) REMOVE ALL SHARP EDGES, R.02 MIN.
- 6) SCRIBE, ENGRAVE...
- 7) AFTER PARTS ARE ROLLED TO RADIUS, HARDEN FOR HEAT TREATMENT AT 435 DEG C FOR 100 HOURS AND AIR COOL. PARTS MUST BE SUPPORTED WITH TOOLING DURING HEAT TREATMENT TO AVOID RADIUS CHANGE DUE TO SELF WEIGHT. TOOLING FOR HEAT TREATMENT MAY BE A "BIKE RACK" TYPE OF TOOL THAT WILL ALLOW THE PARTS TO BE MOUNTED ON THEIR SIDES. PARTS MAY BE ROLLED AGAIN AFTER HEAT TREATMENT TO ADJUST RADIUS TO SPECIFICATION.