ERICKSON ENGINEERING RELEASE NOTICE

CONTROL NO.
ERN 2025-14053

CHANGE TO

S-64
- TC [X]
- STC [ ]
- N/A [ ]

ENGINE TC
- [ ] 1E9 (JT12)
- [ ] E15EA (JFTD12A)

PMA [ ]

CLASSIFICATION
- MAJOR [ ]
- TYPE 3 [ ]
- TYPE 2 [X]
- TYPE 1 [ ]
- N/A [ ]

DATA TYPE
- NEW DRAWING [ ]
- DRAWING REVISION [ ]
- ADVANCED DOCUMENT CHANGE NOTICE [ ]
- ENGINEERING REPORT [ ]
- ENGINEERING SPECIFICATION [X]
- ENGINEERING ORDER [ ]
- AMENDMENT SHEET [ ]
- OVERHAUL & REPAIR INSTRUCTIONS [ ]
- DATA CHANGE REQUEST [ ]
- TECHNICAL PUBLICATIONS RELEASE [ ]
- CERTIFIED CAD MODEL [ ]
- TOOL DESIGN CHANGE RECORD [ ]

STATUS
- PRODUCTION [X]
- PROTOTYPE [ ]
- PRELIMINARY [ ]
- DRAFT [ ]

EFFECTIVITY CODES
- A INCORPORATE IMMEDIATELY - FLIGHT SAFETY -
- B INCORPORATE AT NEXT O/H
- C UPON DEPLETION OF PARTS
- D OTHER (SEE DISPOSITION)

ERDO: N/A

DOCUMENT NO. \ REVISION \ TITLE

ES0037 \ REV. K \ IDENTIFICATION MARKING OF PARTS

CONCERTO PROJECT: N/A

DAX PROJECT: N/A

8110-3 REQD: N

STC NUMBER: N/A

REQUESTING DOCUMENT(S): N/A

PRODUCTION ORDER: N/A

PART NUMBER	PART NAME	MODEL(S)	CODE
N/A			

DESCRIPTION OF CHANGE \ WHY CHANGE WAS MADE \ IMPLEMENTATION INSTRUCTIONS:

SECTION 5.1.2 CORRECTED FONT SIZE TO 12.

SECTION 13 ADDED TO ALLOW FOR REWORK OF EXISTING PART MARKINGS FOR NON-PERMANENT AND PERMANENT PART MARKING.

THIS CHANGE APPRECIABLY AFFECTS: [ ] WEIGHT [ ] BALANCE [ ] STRUCTURAL STRENGTH [ ] RELIABILITY [ ] AIRWORTHINESS [X] N/A

DISPOSITION OF PARTS ON HAND \ INSTRUCTIONS TO MATERIALS DEPT:

DOES NOT AFFECT PARTS ON HAND.

SUBMIT FORM EAC5003 IF DATA AFFECTS ASB, SB, CSL OR ESA

LIFE LIMITED ITEM:

[ ] YES, Life Limit: N/A [X]

STRUCTURES: _____

DOCUMENT NO.

DISTRIBUTION LIST: (DESIGNATE RECIPIENTS) OR **STANDARD DISTRIBUTION:** [X]

DATA COPY	FORM COPY		DATA COPY	FORM COPY		DATA COPY	FORM COPY	
[X]	[ ]	CONFIG. MANAGER	[ ]	[X]	MFG. ENGINEERING MGR.	[ ]	[X]	SR. DIRECTOR OF ENGINEERING
[ ]	[ ]	6 MONTH SUBMITTAL	[ ]	[X]	ORIGINATOR	[ ]	[X]	SR. DIR. OF INTEGRATED SUPPLY CHAIN
[ ]	[X]	ACCOUNTABLE MANAGER CERTIFICATION COMPLIANCE	[ ]	[ ]	PLANNING & PROGRAM MGR.	[ ]	[X]	SR. ENG. PROGRAM MGR.
[ ]	[X]	AIRCRAFT MFG & MRO MGR.	[ ]	[X]	PROCUREMENT MANAGER	[ ]	[ ]	TECHNICAL PUBLICATIONS
[ ]	[X]	ASST. DIRECTOR OF ENG.	[ ]	[X]	PRODUCT & TECH. SUPPORT MANAGER	[ ]	[ ]	TOOLING
[ ]	[ ]	ASST. DIR. OF FIELD MAINT.	[ ]	[X]	PRODUCTION PLANNING			
[ ]	[X]	CHIEF ENGINEER	[ ]	[X]	QUALITY			
[ ]	[X]	COMPONENT MRO MANAGER	[ ]	[ ]	OTHER:			

PREPARED BY JOSHUA WALTERS	8/27/2025
CONFIGURATION Jeff Smith (Sep 9, 2025 15:47:55 PDT)	09/09/2025
ENGINEERING SUPV.	09/09/2025
DOCUMENT CONTROL Jeff Smith	9-10-25

FORM NO. 3-110-1 REV. 20

ERICKSON AIR-CRANE
INCORPORATED
FAA TYPE CERTIFICATE NO. H6EA TC TYPE CERTIFICATE NO. H-91

EAC DOCUMENT: **ES0037**

TITLE: **IDENTIFICATION MARKING OF PARTS**

PREPARED BY: **SIGNATURE ON FILE**
DENISE YAMAGATA **DATE**

APPROVED BY: **SIGNATURE ON FILE**
JEFF FOX **DATE**

APPROVED BY: **SIGNATURE ON FILE**
CHUCK LANDERS **DATE**

REV: N

DATE: 9-9-25

3100 WILLOW SPRINGS ROAD • P.O. BOX 3247 • CENTRAL POINT, OR 97502 • (541) 664-5544 • FAX (541) 664-9547
www.ericksonaircrane.com

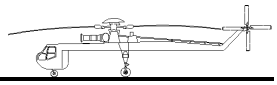


TABLE OF REVISIONS

REV	DESCRIPTION	BY	APPROVED	DATE
IR	INITIAL RELEASE	D. YAMAGATA	C. LANDERS	7/10/03
A	REVISED TO ALLOW USE OF ELECTROCHEMICAL MARKING FOR METAL BAND MARKING OF FLEXIBLE HOSES. REVISED TO REMOVE REFERENCE TO JAS. H. MATTHEWS (COMPANY NO LONGER IN EXISTENCE). CLARIFIED SECTION ON ATTACHED TAG/LABEL MARKING. CLARIFIED SECTION ON PROTECTION OF PART MARKINGS WITH LACQUER. ADDED SECTION ON MAKING RUBBER STAMPING PERMANENT.	D. YAMAGATA	J. FOX	1/29/04
B	UPDATED WHITE INK CALLOUT IN SECTION 3.3.1. DELETED CONTRADICTORY SENTENCE FROM SECTION 3.7.2.	D. YAMAGATA	C. LANDERS	4/14/04
C	REVISED SECTION 12.1.4.3 TO ADD "EAC" TO PARTS MADE BY OUTSIDE VENDORS. ADDED VIBROPEENING AND IMPRESSION STAMPING TO SPECIFICATION (TO BE USED ONLY WHEN SPECIFIED BY ENGINEERING).	D. YAMAGATA	J. FOX	12/15/04
D	ADDED NOTE THAT VIBROPEENING MAY BE USED IN LIEU OF IMPRESSION STAMPING.	D. YAMAGATA	D. ROBERTS	1/24/05
E	INCOPORATED INFORMATION PREVIOUSLY LISTED IN SS9100 TO SECTION 12.3.	D. YAMAGATA	D. ROBERTS	4/27/05
F	REVISED SECTION 12.2.7 TO ALLOW USE OF ALTERNATE METHODS OF PART MARKING.	D. YAMAGATA	D. ROBERTS	5/3/06
G	REVISED SECTION 3.3.3 TO ALLOW USE OF ALTERNATE METHODS OF PART MARKING. REVISED SECTION 12.2 TO INCLUDE REPAIR OPERATIONS. SECTION 12.2.1 WAS REVISED TO OMIT MARKING REQUIREMENTS FOR NDT OPERATIONS IMPOSED BY INDUSTRY SPECIFICATIONS. COMPLETELY RE-FORMATTED.	T. PETRIE	J. AVGERIS	5/10/13

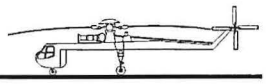
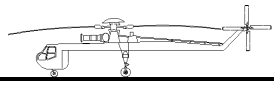


TABLE OF REVISIONS (CONT.)

REV	DESCRIPTION	BY	APPROVED	DATE
H	REVISED SEC. 3.3.3. TO ALLOW EQUIVALENT INK AND MARKING SYSTEMS TO BE USED.	T. PETRIE	JR. AVGERIS	4/18/14
J	UPDATE VERBIAGE IN SECTION 12.1.4.3 TO ALIGN WITH TYPE CERTIFICATE SALES CONTRACT. SPECIFIES "SHALL" IN LIEU OF "SHOULD"	D. MAYER	W. JOHNSON	11/14/2024
K	UPDATED FONT SIZE OF SECTION 5.1.2 ADDED SECTION 13 TO CLARIFY REWORK OF EXISTING PART MARK FOR PERMANENT AND NON-PERMANENT PART MARKINGS	J. WALTERS	D Mayer	09/09/2025



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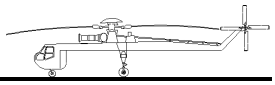
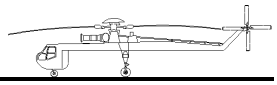


PART MARKING SYMBOLS – QUICK REFERENCE

- A Attached Tag, Label, etc.
- D Acid Etch
- E Airgrit
- F Cast, Forged or Molded Characters
- H Electrolytic Etch or Copper Plate
- R Reinforced Plastic Marking
- T Metal Band
- X Rubber Stamp
- V Vibropeening
- B Impression Stamp



1. SCOPE

This specification establishes the requirements for marking parts with identification information. This specification is meant to address parts that do not currently have part marking instructions noted on the applicable engineering drawing. This specification may also be called out on new engineering drawings as desired. This specification may also be used in lieu of any Sikorsky specification called out on any engineering drawings (i.e., SS8797, SS8798, or SS9070), and is preferred for use over those specifications.

2. APPLICABLE DOCUMENTS

Specifications:
The following specifications shall form a part of this specification to the extent herein. The latest issue of the documents shall be used unless otherwise specified:

2.1. SIKORSKY AIRCRAFT

SS8773 – Copper Plating and Photo Resist Lettering
SS8798 – Identification Marking of Parts, Methods For
SS9070 – Serial Numbering and Trademark Identification of Details, Assemblies, and Equipment
SS9100 – Identification Marking of Altered, Selected, and Special Bolts

2.2. SOCIETY OF AUTOMOTIVE ENGINEERS

AMS-M-3171 – Magnesium Alloy, Processes for Pretreatment and Prevention of Corrosion on

3. MATERIALS AND EQUIPMENT

3.1. ELECTROLYTIC ETCHING

Electrolytic etching can chemically stencil, with an electric charge, flat surfaces with characters in a straight line. Electromaster Kit #3500, Marking Methods Model # Mark 300 series, or equivalent may be used. Note: Airgrit marking (see 3.6) may be used as an alternate for the electrolytic etch marking method.

3.2. ACID ETCHING

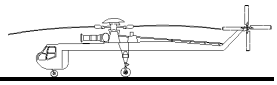
Acid etch can be accomplished with toothpick or similar implement and etching ink on a surface of ½ inch square. Etching ink may be purchased from SPI or an equivalent source. Note: Airgrit marking (see 3.6) may be used as an alternate for the acid etch marking method.

3.3. RUBBER STAMPING

A gang of characters can be stamped on surfaces in a straight line. Character heights shall be 1/8" or 3/16".

3.3.1. The following inks are approved for use with rubber stamping.

a. Black #50 or #1250 and white #513 or #1250. May be purchased from Schwerdtle Stamp Co., Bridgeport, Conn.



b. Dymo Fast Dry Black #42212 and Special White, Dymo Visual Systems Inc., Atlanta, Georgia 30325. May be purchased as Dymo Applicator Kit #831 with Fast Dry Black Ink.

c. #4 N (No. 4N) White and #404 (No. 404) Black, manufactured by Phillips Process Co. Inc., Rochester, NY.

3.3.2. Rubber (ink) stamping, ballpoint pen writing, or typing on pressure sensitive adhesive marker blanks is acceptable in lieu of rubber-stamping the part directly. Use W.H. Brady Co. B-637 marker, polyvinylfloride tape with acrylic adhesive or equivalent.

3.3.3. Videojet Excel Series 2000 inkjet printer and 16-2000Q ink (or equivalent ink and marking system) may be used instead of a rubber stamp.

3.3.4. If desired, a black permanent marker (Sharpie or equivalent) may be used instead of a rubber stamp.

3.3.5. Rubber stamping is a non-permanent marking. However, it can be made permanent by applying a coat of clear epoxy or clear urethane over the part marking.

3.4. METAL BAND

Metal band embossing is performed with a Graphotype Model 6341, which may be purchased from Addressograph-Multigraph Corp., Cleveland, Ohio, or equivalent. The metal band shall be CRES material. Electrochemical marking on the metal band may be accomplished utilizing a Lectroetch model V10a power unit purchased from the Aeromark Corporation, or an equivalent.

3.5. REINFORCED PLASTIC PARTS MARKING

3.5.1. Burelease 51789 peel ply purchased from Burlington Industrial Fabrics or equivalent.

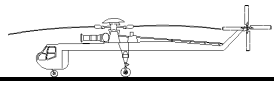
3.5.2. Typewriter with a minimum height type of 1/8 inch and black ribbon (or equivalent).

3.5.3. Black marking ink. Rubber stamp with 1/8” or 3/16” height characters and an ink pad.

3.5.4. Masking tape (of appropriate type so as not to harm parts under any conditions).

3.6. AIRGRIT MARKING

The airgrit marking method may be used for marking delicate or precision finished parts, which might be marred or distorted by conventional methods. Tiny particles of grit are blown through a carefully relieved rubber mask to produce a permanent “etched” mark on



the surface of the part. The marking depth is only about .0001 inch depending on the material, which is marked. Airgrit marking may be used as an alternate for the △H and △D methods (see 3.1 and 3.2).

3.7. ATTACHED TAG/LABEL MARKING

Either of the following methods of marking shall be used if the item is too small or unsuitable for marking (method △A):

3.7.1. Unless otherwise specified, the quantity of items per bag shall be at the supplier's discretion. Each bag shall contain items of the same part number. Attach an identification tag, which shall be permanent to the extent required in utilization of the item.

3.7.2. Stamp, label, stencil, or write on the container in which the item will be retained.

3.8. IMPRESSION STAMPING

Acceptable methods of impression stamping are detailed below. This method is not to be used unless specifically allowed by Engineering documentation. If desired, vibration peening may be used in lieu of impression stamping, when impression stamping is specified on the Engineering documentation.

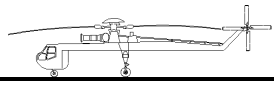
3.8.1. A stamp machine shall be capable of producing gang stamps impressing flat stock with characters in a straight line to a .003 inch depth. Machines used must be kept in good condition and worn characters must be replaced to maintain uniform depth of readable impression. A recommended machine is the Noble West, Model 355, Style 4050, but any machine meeting the above criteria may be used.

3.8.2. Hand controlled gang stamps shall be capable of impressing flat areas with characters in a straight line to a .003 inch depth. Flat areas should be at least 3" x 1" to accommodate head size of tool. However, items must be uniformly backed to receive blow from holder. It is recommended that a Hand holder and 1/8 inch "Lo-Stress" stamps be purchased from Jas. H. Matthews & Company of Pittsburgh, Pennsylvania, but any stamps/holder meeting the above criteria may be used.

3.8.3. Hand controlled individual stamps shall be capable of impressing flat areas with characters in any pattern to a .003 inch depth. Each stamp must be backed to receive a blow from each character separately. It is recommended that "Lo-Stress" characters in size of 1/16", 3/32", 1/8" and 5/32" be purchased from Jas. H. Matthews & Company of Pittsburgh, Pennsylvania, but any stamps meeting the above criteria may be used.

3.9. VIBRATION PEENING

Vibration Peen Markers or Dot Peen Markers shall be purchased with a .010 inch minimum radius carbide tip. Recommended Vibration Peen marker is Thor air pen #116 from Thor Power Tool Company, Aurora, Illinois. Recommended Dot Peen marker is



Pryor Mark V Model 2060. However, any markers meeting the above criteria may be used. This method is not to be used unless specifically allowed by Engineering documentation (the only exception to this rule is that vibration peening may be used in lieu of impression stamping when that marking method is specified).

4. METHODS OF MARKING

The drawing symbol △ (equi-angular triangle) shown throughout this specification is used on new engineering drawings to identify the method and location of marking (SS8797 and SS8798 use a similar system). Parts which do not have this drawing symbol depicted on the applicable drawing are subject to identification as noted in section 5 of this specification.

4.1. PERMANENT AND CAN SHOW THROUGH SUBSEQUENT PROCESSING:

△F Cast, Forged or Molded Characters
△B Impression Stamp
△V Vibration Peening

4.2. PERMANENT WITH THE FOLLOWING EXCEPTIONS:

a. Characters will not show through subsequent processing such as painting.

b. Characters on the base material or parts which are cadmium plated or chrome plated will be destroyed when plating is stripped.

△H Electrolytic Etch or Copper Plate
△D Acid Etch
△E Airgrit

4.3. NON-PERMANENT, AND DOES NOT SHOW THROUGH SUBSEQUENT PROCESSING.

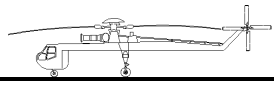
△X Rubber Stamp
△A Attached Tag, Label, etc.

4.4. PERMANENT

△T Metal Band
△R Reinforced Plastic Marking (see 4.5.6.4).

4.5. DESCRIPTION OF METHODS OF MARKING

4.5.1. Symbol △F indicates cast, forged, or molded method or marking. The height and projection of the characters shall be proportional to the part.



4.5.2. Symbol △B is a low stress depth controlled impression stamping with a full fillet depth of .003" max. Parts heat treated up to 125,000 PSI may be gang or individual stamped. Parts heat treated in excess of 125,000 PSI shall be hand stamped with individual characters. Stamping shall not be applied to a curved surface unless an adequate support of similar curvature is used. If gang stamp characters are used individually, a plastic headed hammer shall be used; a metal headed hammer would distort the characters and impact their continued use. Impression stamping of castings and forgings shall be applied only on the pad, unless otherwise specified on the drawing. This method may only be used when specifically allowed on Engineering documentation. Vibropeening may be used in lieu of impression stamping wherever impression stamping is specified.

NOTE: Impression stamping of castings and forgings may be to a depth of .015 inch maximum if applied on the pad or on a surface where the effect of marking will be completely removed during subsequent machining.

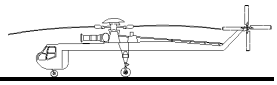
NOTE: On drawings which permit impression marking on bearings, the depth of the impression shall not exceed .015 inch. No projection of displaced material due to impression marking shall be allowed. The impression marking shall be done prior to heat treating the part. Engraving by the bearing manufacturer is an acceptable alternate method for impression stamping on bearings only.

4.5.3. The symbol △V indicates that the characters are formed with a vibrating/dot instrument per 3.9. The maximum character height shall be 5/32 inch and the minimum 1/16 inch. The depth shall not exceed .003 inch. This method may only be used when specifically allowed on Engineering documentation, or when vibropeening will be used in lieu of impression stamping.

4.5.4. The symbol △H is an electrolytic etch produced with equipment of 3.1 or a copper deposit in accordance with Sikorsky Specification SS8773. Instructions set forth by the manufacturer of this equipment must be adhered to. The depth of etch shall not exceed .001 inch. The area for marking on steel parts, which are electrolytic etched and which will have a coating of black oxide or phosphate shall be masked. Copper deposited marking need not be masked.

4.5.5. The symbol △D is for acid etch with equipment of 3.2. After etching, the surface must be neutralized and oiled to prevent corrosion. The depth shall not exceed .001 inch. The area for marking on steel parts, which will have a coating of black oxide or phosphate shall be masked.

4.5.6. The symbol △X designates that marking shall be performed with rubber stamp and ink conforming to 3.3.



4.5.7. The symbol △T designates metal band marking. The information on the band will be in the form of raised type characteristics or shall be electrochemically marked. All flexible hosing shall use this marking method.

4.5.8. The symbol △R designates an ink marked peel ply applied on the top lamination of reinforced plastic parts.

4.5.8.1. To mark laminated plastic parts indicated by △R, typewrite or rubber stamp the characters on peel ply per 3.5.

4.5.8.2. Trim peel ply to allow a margin of 1/8 or 1/4 inch around the marking.

4.5.8.3. During lay-up and before curing the part, apply the peel ply on top of the top lamination of the plastic part. Fabrication of the plastic part shall continue in the usual procedure. The characters will be legibly visible after fabrication.

4.5.8.4. If the plastic part is to be painted, the area over the marking insert shall be masked with tape prior to painting.

4.5.8.5. All plastic parts shall have the marking applied to the non-exposed surface of an installed part.

4.5.9. The symbol △E designates that marking shall be performed by the airgrit method as specified in 3.6.

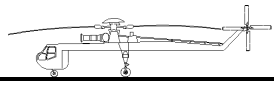
4.5.10. Symbol △A designates that the part is too small or unsuitable for marking and that a method as specified in 3.7 should be used.

5. ORDER OF PREFERENCE FOR THE USE OF MARKING METHODS

5.1. THE SUBSEQUENT PARAGRAPHS INDICATE THE RECOMMENDED METHODS OF MARKING PARTS IN ORDER OF PREFERENCE FOR A GIVEN ALLOY AND FORM. IF THE ENGINEERING DRAWING DOES NOT SPECIFY A SPECIFIC PART MARKING METHOD TO BE USED, USE ONE OF THE RECOMMENDED METHODS IN THE SUBSEQUENT PARAGRAPHS.

5.1.1. If non-permanent marking is specified on an engineering drawing, permanent marking methods should not be used without Engineering approval.

5.1.2. All permanent markings shall be applied only to the location shown on the drawing.



5.1.3. The recommended methods of marking parts listed below shall take precedence over any part marking methods specified by SS8797 or SS8798.

6. CARBON AND ALLOY STEELS

The order of preference shall be as specified in the following paragraphs.

6.1. MACHINED PARTS △H △D △X

6.2. CASTINGS AND FORGINGS △F △H △D △X

6.3. SHEET, PLATE, AND EXTRUSIONS △H △D △X

6.4. TUBING, WELDED, AND BONDED PARTS △H △D △X **(HYDRAULIC AND FUEL LINES SHALL BE RUBBER STAMPED** △X**).**

6.5. NOTES FOR MANUFACTURING PERSONNEL:

6.5.1. △H may be used in place of △D when △D is referenced on the drawing.

7. CORROSION RESISTANT STEEL

The order of preference shall be as specified in the following paragraphs.

7.1. MACHINED PARTS △H △D △X

7.2. CASTINGS AND FORGINGS △F △H △D △X

7.3. SHEET, PLATE, AND EXTRUSIONS △H △D △X

7.4. TUBING, WELDED, AND BONDED PARTS △H △D △X **(HYDRAULIC AND FUEL LINES SHALL BE RUBBER STAMPED** △X**).**

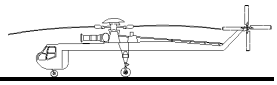
7.5. NOTES FOR MANUFACTURING PERSONNEL:

7.5.1. △H may be used in place of △D when △D is referenced on the drawing.

8. ALUMINUM ALLOYS

The order of preference shall be as specified in the following paragraphs.

8.1. MACHINED PARTS △H **(SEE 8.5.1)** △X



8.2. CASTINGS AND FORGINGS △F △H (SEE 8.5.1) △X

8.3. SHEET, PLATE, AND EXTRUSIONS △H (SEE 8.5.1) △X

8.4. TUBING, WELDED, AND BONDED PARTS △H (SEE 8.5.1) △X (HYDRAULIC AND FUEL LINES SHALL BE RUBBER STAMPED △X).

8.5. NOTES FOR MANUFACTURING PERSONNEL:

8.5.1. Do not electrolytic etch △H on anodized aluminum. Parts should be electrolytically etched and masked per 12.2.11 prior to anodization.

8.5.2. Parts should be electrolytically etched prior to Alodine application. If marking follows Alodine application, the affected area shall immediately receive Alodine touch-up.

9. TITANIUM

The order of preference shall be as specified in the following paragraphs.

9.1. MACHINED PARTS △H △X

9.2. CASTINGS AND FORGINGS △F △H △X

9.3. SHEET, PLATE, AND EXTRUSIONS △H △X

9.4. TUBING, WELDED, AND BONDED PARTS △H △X (HYDRAULIC AND FUEL LINES SHALL BE RUBBER STAMPED △X).

9.5. HOSE - METAL BAND MARKING △T SHALL BE USED.

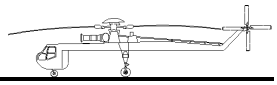
10. MAGNESIUM

The order of preference shall be as specified in the following paragraphs.

10.1. MACHINED PARTS △H △X

10.2. CASTINGS AND FORGINGS △F △H △X

10.3. SHEET, PLATE, AND EXTRUSIONS △H △X



10.4. TUBING, WELDED, AND BONDED PARTS (H) (X) (HYDRAULIC AND FUEL LINES SHALL BE RUBBER STAMPED (X)).

10.5. NOTES FOR MANUFACTURING PERSONNEL:

10.5.1. Parts should be electrolytically etched prior to protective processing. If marking follows processing, the affected area shall immediately receive touch-up per AMS-M-3171 Type VI.

11. NON-METALLIC PARTS

11.1. NON METALLIC MOLDED PARTS SHALL BE MARKED BY THE (F) METHOD. IF THIS IS IMPRACTICAL OR IF MACHINED PARTS ARE AN ACCEPTABLE ALTERNATE, RUBBER-STAMPING MAY BE USED.

11.2. ACRYLIC PLASTIC (PLEXIGLAS) PARTS THAT HAVE A PROTECTIVE PAPER COATING MAY BE MARKED WITH A WAX PENCIL OR "CHINA MARKER" TO FACILITATE HANDLING DURING TRANSIT AND STORAGE.

11.2.1. When the Plexiglas parts do not have a protective paper coating, "China" marked part numbers and data shall be applied to the part in contrasting color prior to applying the protective Spraylat coating.

11.3. REINFORCED PLASTIC PARTS SHALL BE MARKED BY THE (R) MARKING METHOD. RUBBER STAMPING, (X), MAY BE USED AS AN ALTERNATE MARKING METHOD FOR PLASTIC PARTS THAT ARE NOT TRANSPARENT (SUCH AS KEVLAR).

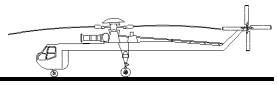
12. GENERAL REQUIREMENTS AND DATA

12.1. WHEN THE DELTA SYMBOL (△) (CONTAINING THE APPROPRIATE LETTER DESIGNATING THE METHOD OF MARKING) APPEARS ON THE ENGINEERING DRAWING, IT SHALL BE INTERPRETED AS MEANING THAT THE FOLLOWING INFORMATION AS APPLICABLE SHALL BE MARKED ON THE ITEM IN THE LOCATION SHOWN:

12.1.1. Erickson Air-Crane Federal Supply Code ("cage code") 9R802, a dash (or slant), and identifying part number. *Example: 9R802 - 65350-30456-101.*

12.1.2. When the item is an assembly, the notation "Assy" shall replace the dash (or slant) following the Federal Supply Code number. Example: 9R802 ASSY 65350-30456-041.

12.1.3. The part number shall be exactly as shown on the drawing, including dash numbers. Characters shall not be added to or deleted from the part number as



specified by the drawing.

12.1.4. In addition to the identifying (part) number, other characters may be marked on the item for handling and control purposes.

12.1.4.1. All parts manufactured by Erickson Air-Crane shall be identified with part number, serial number (if applicable), "EAC" near P/N (not so as to be construed as part of the part number), M/O number, and EAC inspection stamp.

12.1.4.2. Parts produced under Erickson Air-Crane's Production Certificate which have had Material Review Board action and disposition shall be identified with the appropriate number traceable to the MRB document (i.e., QAR control number). Parts which have had Conversion Review Board action and disposition shall be identified with the appropriate number traceable to the CRB document (i.e., CDR number).

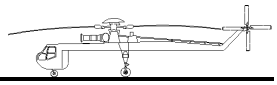
12.1.4.3. Manufacturer's Identification: If an Erickson Air-Crane part is procured from a manufacturer other than Erickson Air-Crane, or when specified on the engineering drawing, the manufacturer's Federal Supply Code number or manufacturer's name or registered trademark prefixed by "MFR" shall be marked by the manufacturer below and in addition to the Erickson Air-Crane Federal Supply Code number and part number. Parts shall also be identified with "EAC" near the P/N (not so as to be construed as part of the part number).

Example: *9R802-65350-30456-101 EAC*
MFR 20001

12.1.5. When an item is reidentified to its next higher drawing level and still retains the same drawing number; it may be marked by adding the dash number to the previously marked part number. In the case of an assembly, the word "ASSY" must follow the dash number. This method may be utilized to preclude the repetition of the Federal Supply Code number and the entire part number, provided the entire identifying number is visible after assembly. Example: 9R802 - 65350-30456-001-101 -041 ASSY.

12.1.6. When the delta symbol △ (containing the appropriate letter designating the method of marking) appears on the engineering drawing with amplifying instructions, it shall be interpreted as meaning that only the identification data specified in the amplifying instructions shall be marked on the item.

12.1.7. Forgings, castings, and other parts assigned semi-finished or manufacturing



control numbers need not be marked with the Erickson Air-Crane Federal Supply Code number (9R802).

12.2. FOR MANUFACTURING AND REPAIR OPERATIONS, THE FOLLOWING NOTES APPLY.

12.2.1. The serial numbers, processing stamp, and other markings, which apply to an item shall be compatible with the part number identification method type.

NOTE: EAC only requires processing stamps for NDT operations when explicitly called out on the engineering drawing. Additional marking requirements imposed by industry specifications may be omitted.

12.2.2. Height of characters should be a minimum of 1/16". A part shall be rejected if illegibility exists.

12.2.3. The identification characters do not have to appear on one line if the designated area is confined. The markings may appear on more than one line or in an arc pattern.

12.2.4. When rubber-stamping is specified, it may be applied to a conspicuous area on the part other than that shown on the drawing.

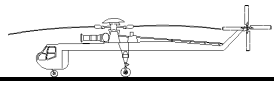
12.2.5. On sheet metal parts, all markings shall be located a minimum of 1/16 of an inch clear of edge of part, radii, holes, stress areas, bonded areas and working or attaching surfaces.

12.2.6. Permanent markings on external skins shall be applied to the internal face. The marking may be applied to an area within 6" of the location shown on the drawing provided the requirements of 12.2.5 are met.

12.2.7. △H △D △X may be used for sheet metal (flat or formed) or extruded items when not specified on the drawing or when the drawing specifies impression stamping. This substitution should not be performed on life-limited or flight-critical parts. Paragraphs 12.2.5 and 12.2.6 apply in this case.

12.2.8. The removal of raised characters (dash numbers by Method △F) and renumbering by any method shall not be done without the approval of Engineering. However, during a forging operation, if there is a washout of the raised part number, it is permissible to remark the forging with a rubber stamp.

12.2.9. Identification may be applied per drawing marking method after plating, provided identification markings are protected by the required paint system, flash plating, or a coat of clear lacquer as applicable.



12.2.10. Shot peened parts:

12.2.10.1. Mark parts after shot peening as specified in the field of drawing. When masking is not permitted by the engineering drawing, the surface to be marked may be polished prior to part marking in order to increase contrast and improve legibility.

12.2.10.2. The surface to be marked may be polished, honed or lapped within the following limits:

a. Do not exceed temperature limits after shot peening as specified in the applicable shot peening specification.

b. Material removal after shot peening shall not exceed 10 percent of the minimum arc height for "A" intensity or 3 percent of the minimum arc height for "N" intensity.

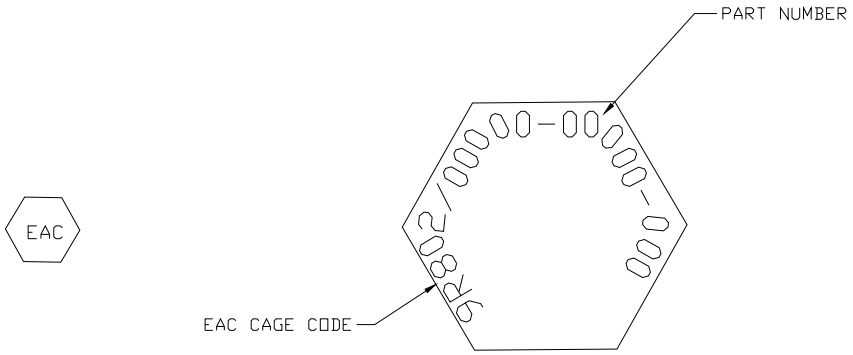
Any exceptions to these limits shall be specifically approved by Engineering.

12.2.11. Identification marking may not show through due to application of paint or primer. In these cases, the preferred method is to mask the marking and apply a coat of clear epoxy or clear urethane after painting or priming. As an option to masking and clear coating, the rubber stamp method may be used to reapply the identification over the obscured marking.

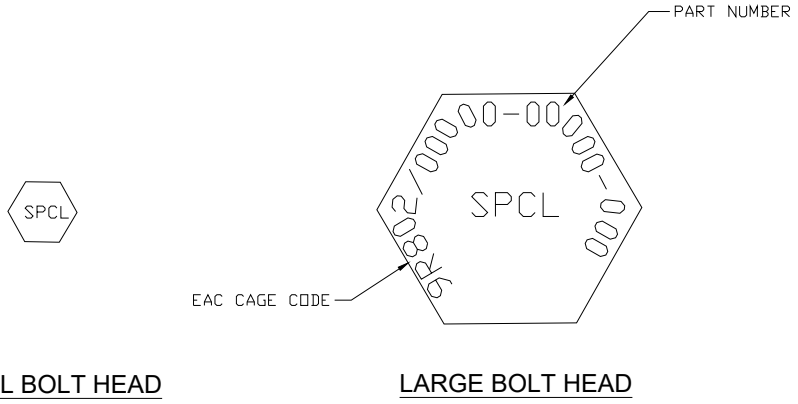
12.2.12. Re-identification of life limited components: The following procedure is applicable to new parts or assemblies that are identical except for different life limits caused by model usage. Parts that either have zero time or up to 25 flight or performance/qualification test hours are considered new parts.

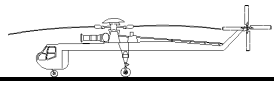
12.3. THE FOLLOWING INSTRUCTIONS ADDRESS THE MARKING REQUIREMENTS FOR THE IDENTIFICATION OF BOLTS THAT HAVE BEEN ALTERED (REWORKED) OR SELECTED (CHOSEN TO MEET SPECIFIC ERICKSON AIR-CRANE REQUIREMENTS MORE STRINGENT THAN THOSE NORMALLY APPLICABLE) FROM STANDARD BOLTS (SUCH AS AN, MS, AND NAS), AND OF SPECIAL BOLTS DESIGNED BY ERICKSON AIR-CRANE. BOLTS TOO SMALL TO MARK SHALL BE IDENTIFIED IN ACCORDANCE WITH SECTION 3.7.

12.3.1. When a bolt is altered or selected, the original identification marking shall be obliterated without damage to the bolt, and the bolt shall be marked as follows:



12.3.2. Bolts designed by Erickson Air-Crane and not covered by 12.3.1 shall be marked as follows:





13. REWORK OF EXISTING PART MARKING

13.1. THE FOLLOWING SECTION APPLIES TO THE REWORK OF EXISTING NON-PERMANENT PART MARKING.

13.1.1. Fully remove non-permanent part marking using best shop practice.

13.1.2. Re-mark part using drawing specified method and location.

13.1.3. Touch up applicable protective finishes per drawing requirements.

13.2. THE FOLLOWING SECTION APPLIES TO THE REWORK OF EXISTING PERMANENT PART MARKING.

13.2.1. When applicable, remove protective finishes using methods listed in the drawing specified protective finishes specifications, or approved stripping specifications.

13.2.2. Mark an "X" over each of the existing characters using blueprint specified part marking method or approved alternate per this specification.

13.2.3. Re-mark part using drawing specified method and location.

13.2.4. Re-apply or touch up protective finishes, as applicable, per drawing requirements.