

CHAPTER 11 — PLACARDS AND MARKINGS

CONTENTS — MAINTENANCE PROCEDURES

Paragraph Number	Title	Chapter/Section Number	Page Number
11-1	Placards	11-00-00	3
11-2	Decals - application	11-00-00	3

FIGURES

Figure Number	Title	Page Number
11-1	Placards and markings	5

CONSUMABLE MATERIAL LIST

The following consumable materials are required to perform the maintenance procedures within this chapter.

ITEM NO.	NOMENCLATURE	CAGE/FSCM/ SOURCE
C-305	Aliphatic Naphtha, TT-N-95, Type II	Commercial
C-306	Toluene, TT-T-548	Commercial

PLACARDS AND MARKINGS

11-1. PLACARDS

Decals, stencils, and markings used on Model 212 helicopters are shown in [Figure 11-1](#) (Sheets 1 through 13). The first part of this figure shows sections, views, and details on the helicopter. Subsequent parts of the figure show detail appearance, quantity, and location of each unit by item number. A heavy black asterisk (*) in front of certain index numbers indicates the item is required by government regulation.

NOTE

The decals shown in detail views are typical for helicopters being delivered at the time this manual was published. Therefore, the decals shown may be different than those originally supplied on any other particular helicopter. The decals shown are generally the decals which will be supplied when replacements are ordered. In all cases, refer to [BHT-212-IPB](#) for ordering information and decal part numbers for a particular helicopter.

11-2. DECALS — APPLICATION

MATERIALS REQUIRED

Refer to [BHT-ALL-SPM](#) for specifications.

NUMBER	NOMENCLATURE
C-233	Polyurethane Enamel
C-305	Aliphatic Naphtha
C-306	Toluene
C-349	Edge Sealer
C-385	Isopropyl Alcohol
C-426	Masking Tape
C-516	Clean Cloth

NOTE

Bonding surfaces must be nonporous.

1. Remove dirt, grease, wax, or other contaminants from the surfaces to be bonded, as follows:

a. For non-metallic and painted surfaces, clean with a clean cloth moistened with aliphatic naphtha ([C-305](#)). Dry the surfaces with a clean cloth ([C-516](#)) before the aliphatic naphtha ([C-305](#)) evaporates.



DO NOT ALLOW TOLUENE ([C-306](#)) TO MAKE CONTACT WITH PAINTED OR NON-METALLIC SURFACES. DAMAGE TO THE SURFACE MAY OCCUR.

b. For bare metal surfaces, clean with a clean cloth moistened with toluene ([C-306](#)). Dry the surfaces with a clean cloth ([C-516](#)) before the toluene ([C-306](#)) evaporates.

2. Apply the pressure-sensitive (adhesive-backed) decal to the bonding surface, as follows:

a. Apply the decal at temperatures above 60°F (16°C) for best results. Otherwise, first apply solvent (refer to the manufacturer's instructions) or isopropyl alcohol ([C-385](#)) to the decal.

b. Remove the adhesive protection from one edge of the decal with a quick smooth movement.

c. Carefully align the decal in the correct position.

d. Put the peeled edge of the decal on the edge of the bonding surface and apply firm pressure with your finger along the same edge.

NOTE

For application of large decals, use a plastic squeegee with a firm pressure.

e. While you continue to remove the adhesive protection, apply finger pressure to the remaining part of the decal until the entire decal is applied. For the best result, hold the opposite edge away from the surface until the entire decal is applied.

f. Make sure there are no air bubbles trapped under the decal. Otherwise, make a hole in the bubble with a pin and press with your finger or a squeegee to remove the air.

3. Edge seal or fully coat the decal with the applicable coating, as follows:

a. Apply masking tape (C-426) 1/8 inch (3 mm) away from the edge and all around the decal.

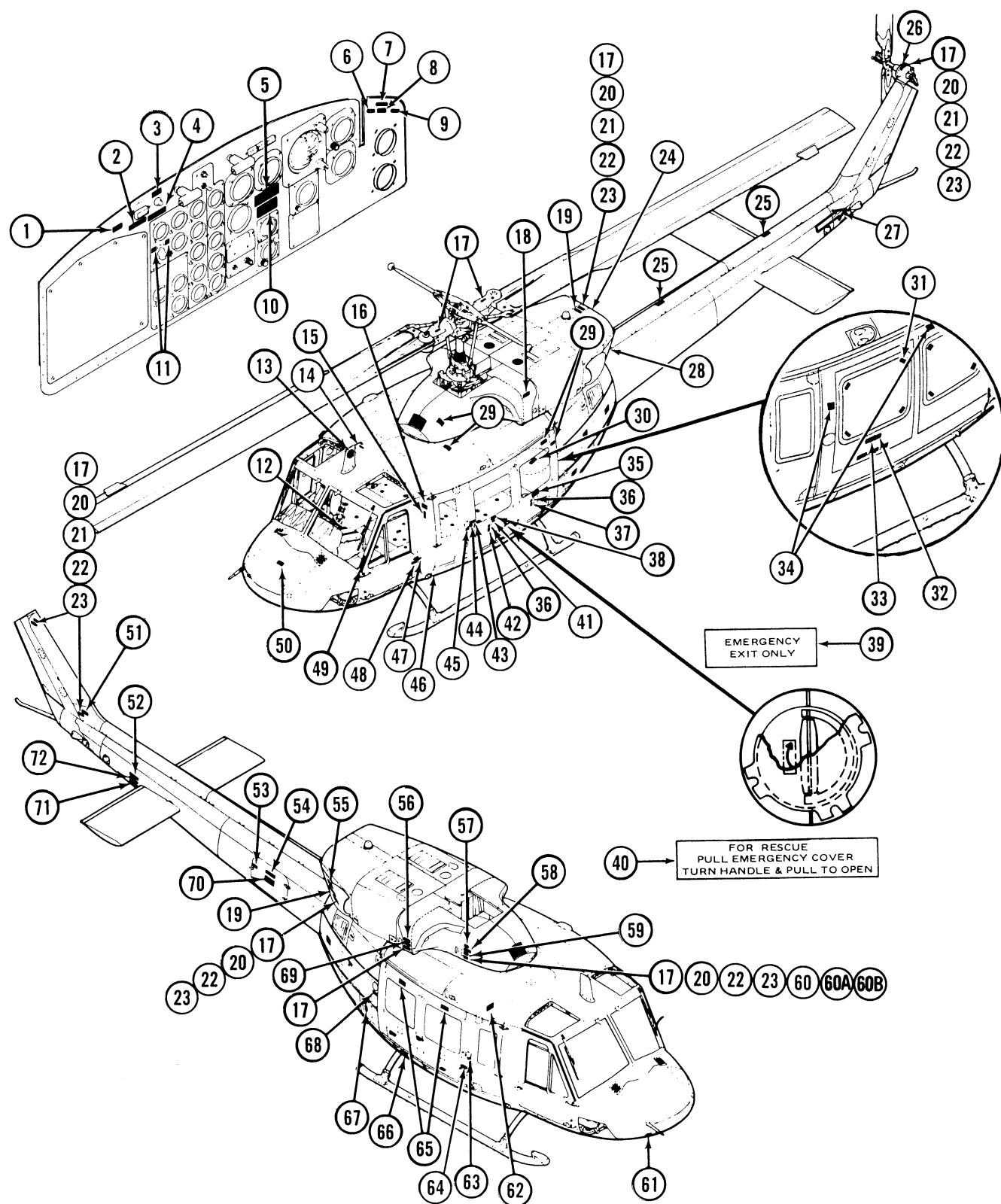
b. For the sealing of exterior decals, apply the same material used for the exterior painting. For example, if the exterior paint is polyurethane enamel (C-233), then use a clear polyurethane enamel (C-233).

c. For the sealing of interior decals, apply a clear decal sealer (C-349).

d. Remove the masking tape (C-426) from around the decal when the coating is dry.

NOTE

A clear polyurethane enamel (C-233) may be used to seal decals applied to all types of exterior finishes.



212-M-11-1-1

Figure 11-1. Placards and markings (sheet 1 of 13)

RADIO CALL

* ① RADIO CALL PLATE

PRI

⑥

DO NOT OPERATE HEATER
ABOVE 21° C O.A.T.

* ② HEATER

IN ALTN POSITION MAINTAIN
INSTRUMENT ACCURACY BY
CLOSING WINDOWS VENTS
AND TURNING HEATER OFF

⑦

BAGGAGE FIRE
TEST SWITCH

* ③ BAGGAGE FIRE TEST SWITCH

STATIC SOURCE

⑧

ALTN

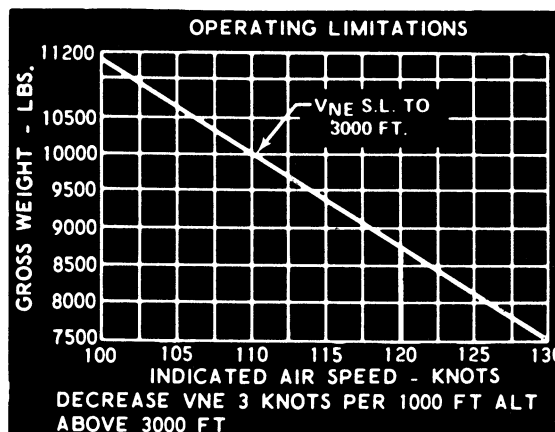
⑨

FUEL SYSTEM CAPACITY
TOTAL BASIC SHIP 1400 LBS
WITH O44 AUX KIT 1700 LBS
WITH O45 AUX KIT 2600 LBS

* ④ FUEL SYSTEM CAPACITY

THIS HELICOPTER MUST BE OPERATED
IN COMPLIANCE WITH THE OPERATING
LIMITATIONS SPECIFIED IN THE FAA
APPROVED ROTORCRAFT FLIGHT MAN.

* ⑤ OPERATIONS LIMITATIONS



* ⑩ OPERATIONS LIMITATIONS (TYPICAL)

212-M-11-1-2

Figure 11-1. Placards and markings (sheet 2)



212-M-11-1-3

Figure 11-1. Placards and markings (sheet 3)

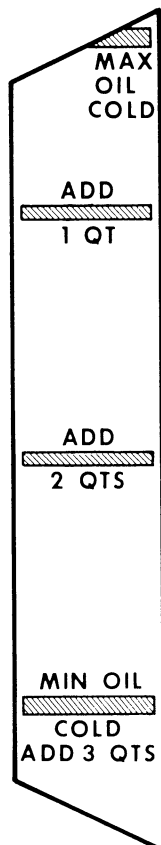
FIRE EXTINGUISHER

* (16) FIRE EXTINGUISHER (31-043-14CGL)

SEE FLIGHT MANUAL FOR
APPROVED LUBRICANTS

* (17) APPROVED LUBRICANTS

NOTE: Replace decal (17) with decal (20) when changing from lubricating oil MIL-L-7808 to MIL-L-23699.



* (18) ENGINE OIL SIGHT GAGE

COMBINING GEAR BOX
OIL CAPACITY 5.0 US QTS = 4.7 LITER

* (19) CAPACITY

SERVICE WITH MIL-L-7808 OIL
OR MIL-L-23699 OIL
DO NOT MIX
SEE FLIGHT MANUAL

* (20) APPROVED LUBRICANTS

NOTE: Replace decal (17) with decal (20) when changing from lubricating oil MIL-L-7808 to MIL-L-23699.

* (21) SERVICE GEARBOX WITH
EXXON TURBO OIL 25 OR
AERO SHELL TURBINE OIL 555
DO NOT MIX

* (22) SERVICE WITH DOD-L-85734 (AS)
AEROSHELL TURBINE OIL 555, EXXON
TURBO OIL 25, OR ROYCO OIL 555
DO NOT MIX SEE FLIGHT MANUAL

* (23) SERVICE WITH MIL-L-7808 MIL-L-23699,
DOD-L-85734 (AS) AEROSHELL TURBINE OIL
555, EXXON TURBO OIL 25, OR ROYCO OIL
555 DO NOT MIX SEE FLIGHT MANUAL

212-M-11-1-4

Figure 11-1. Placards and markings (sheet 4)



(24) HIGH SPEED BLOWER

INSTALL SHAFT CLAMPS INDEXED 90° TO EACH OTHER TORQUE TO 30-35 IN.-LB

(25) TORQUE LIMITS, TAIL ROTOR DRIVE SHAFT CLAMP

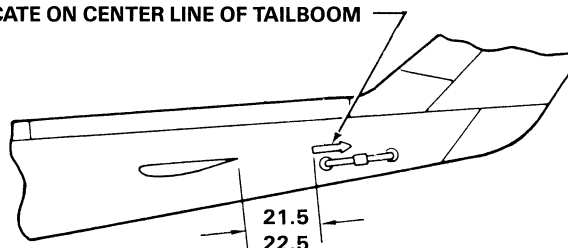
90° GEAR BOX OIL
CAPACITY 0.4 US QTS – 0.4 LITERS

* (26) CAPACITY



DETAIL C

(27) DECAL L/H SHOWN (SEE DETAIL C)
DECAL R/H OPPOSITE
LOCATE ON CENTER LINE OF TAILBOOM



212-M-11-1-5

Figure 11-1. Placards and markings (sheet 5)



(28) HIGH SPEED BLOWER

STRUCTURAL PANEL REQUIRED GROUND RUN AND FLIGHT

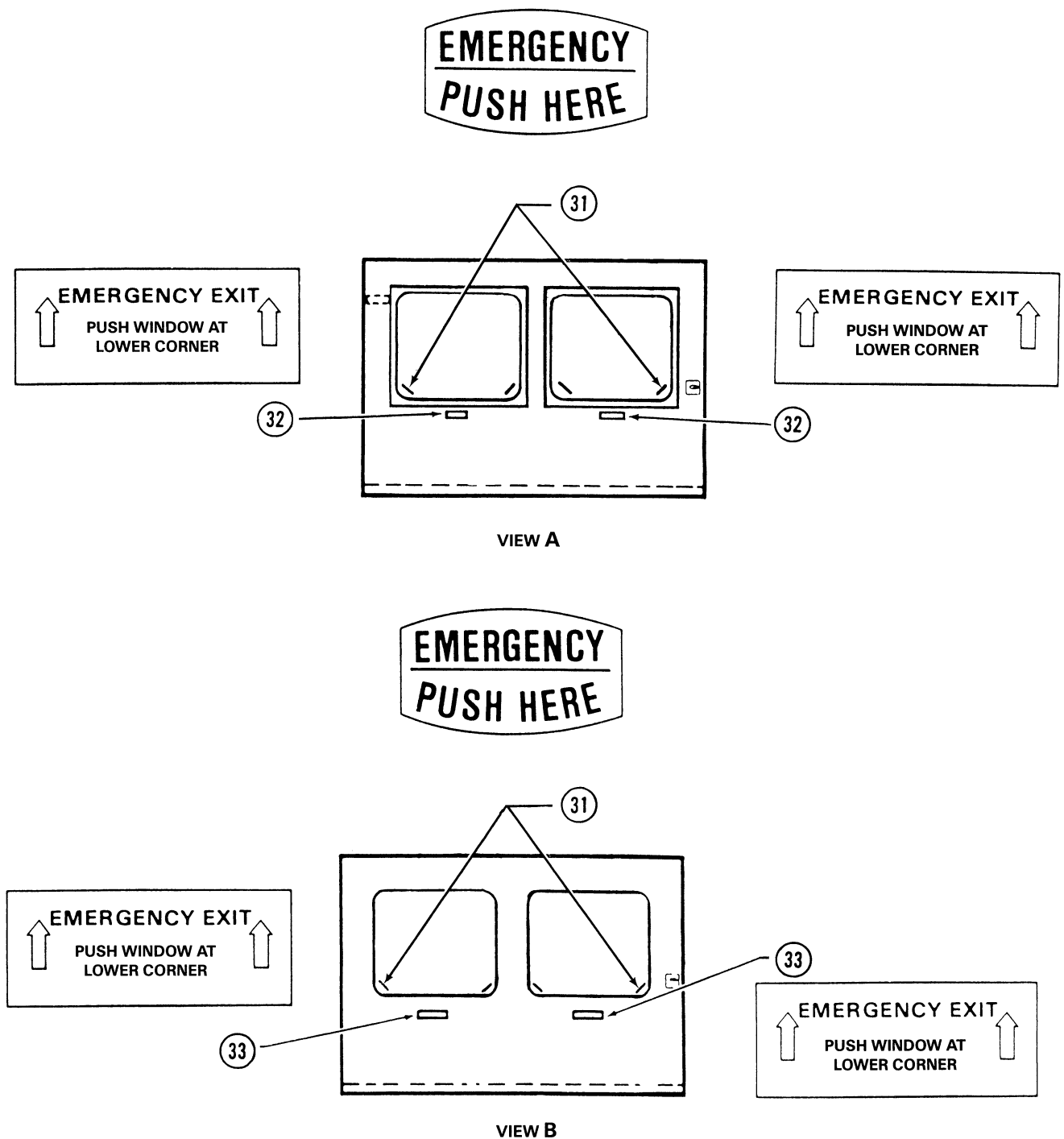
* (29) THIS PANEL MUST BE INSTALLED FOR ALL FLIGHTS

STRUCTURAL PANEL
REQUIRED GROUND
RUN AND FLIGHT

* (30) STRUCTURAL PANEL REQUIREMENTS

212-M-11-1-6

Figure 11-1. Placards and markings (sheet 6)



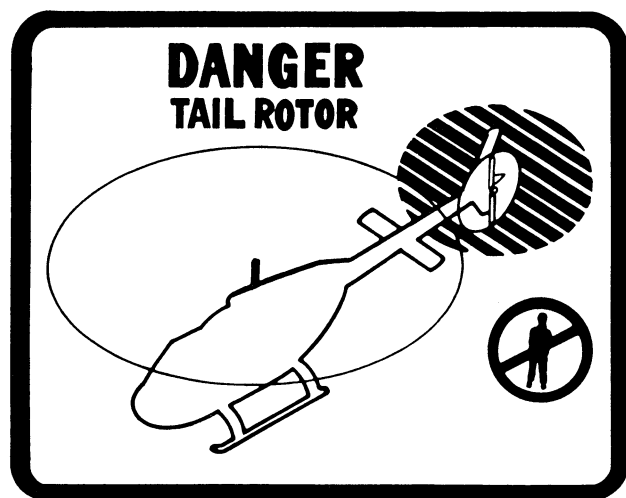
VIEW B

NOTE

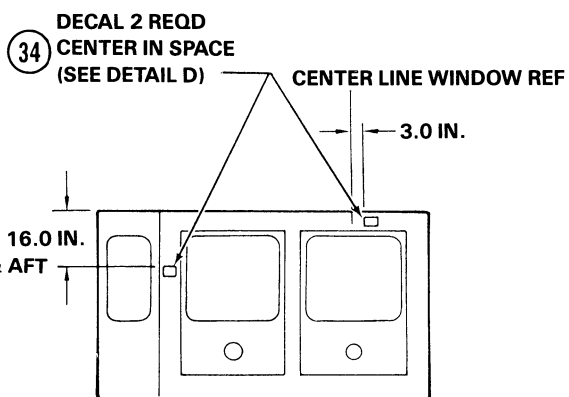
For outside door markings, refer to View A,
and for inside door markings for doors with
pushout windows, refer to View B.

212-M-11-1-7

Figure 11-1. Placards and markings (sheet 7)



DETAIL D



VIEW OF RIGHT HAND DOOR LOOKING OUTBOARD
LEFT HAND DOOR OPPOSITE

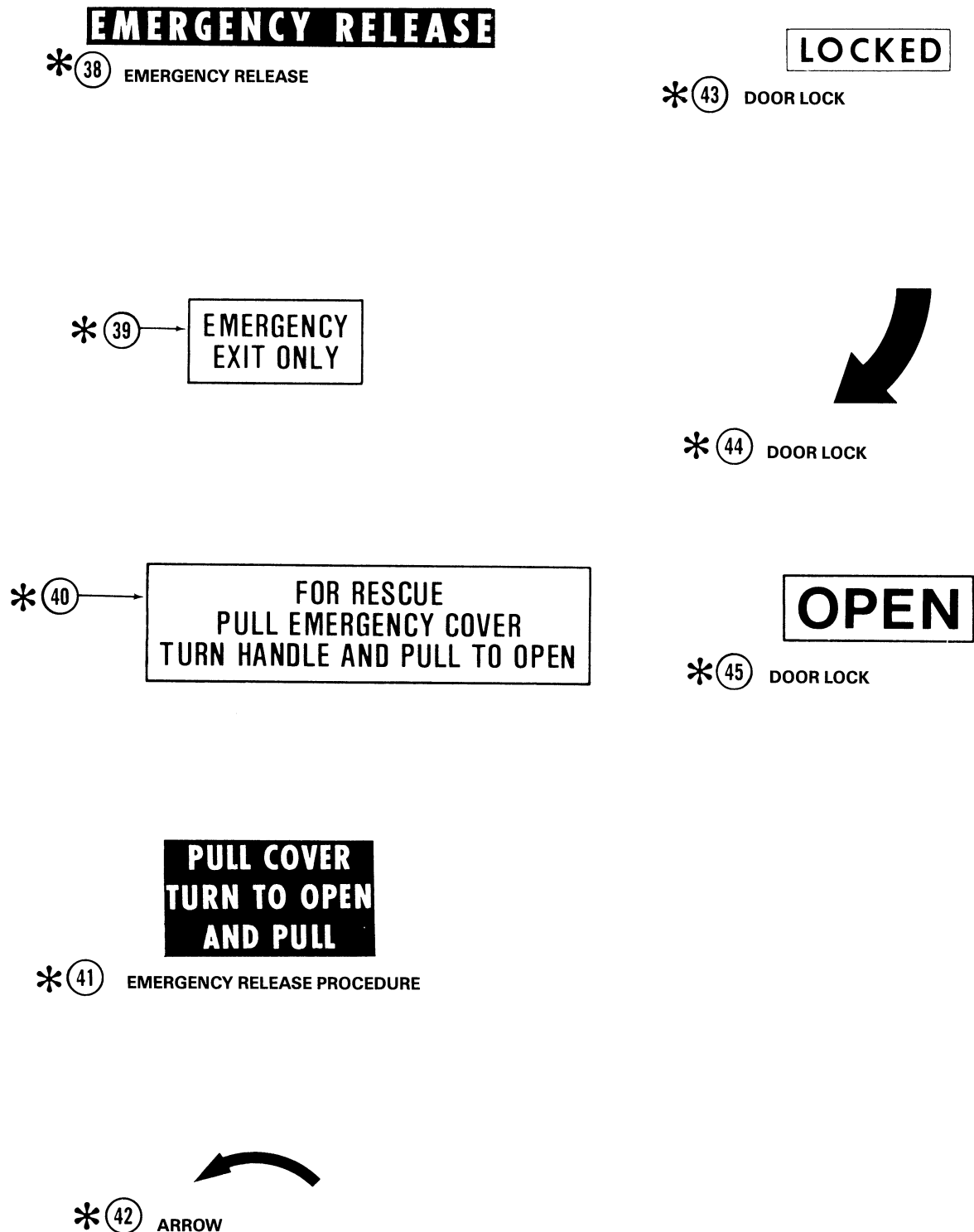


* 35 EMERGENCY RELEASE



212-M-11-1-8

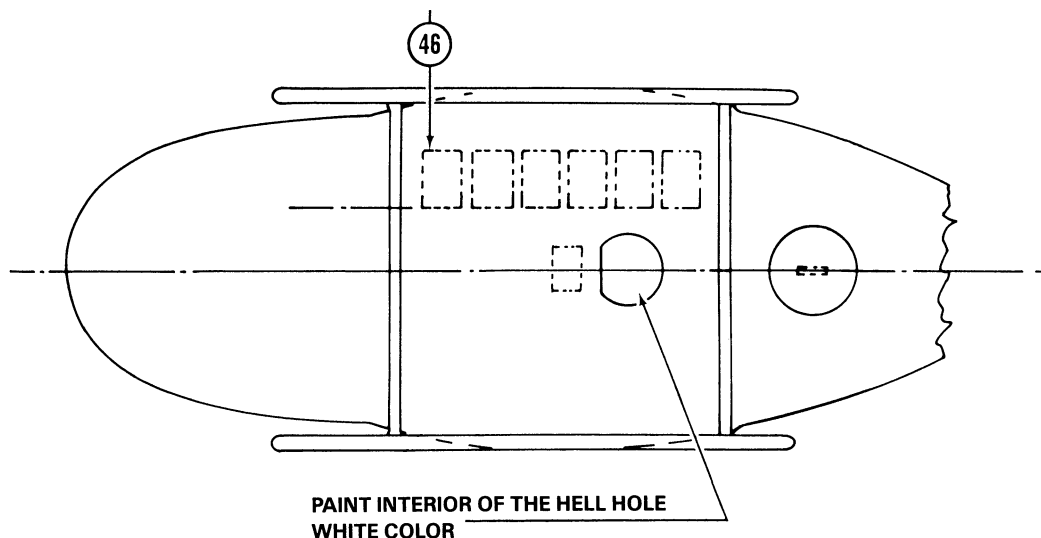
Figure 11-1. Placards and markings (sheet 8)



212-M-11-1-9

Figure 11-1. Placards and markings (sheet 9)

SIX CHARACTER IDENTIFICATION MARKING STENCILS TO BE 16.0 INCHES (406.4 mm) HIGH, 10.7 INCHES (271.78 mm) WIDE EXCEPT THE NUMBER "1" IS TO BE 2.7 INCHES (68.58 mm) WIDE AND THE LETTERS "M" AND "N" ARE TO BE 16.0 INCHES (406.4 mm) WIDE, 2.6 INCHES (66.04 mm) SPACING, CHARACTER THICKNESS TO BE 2.7 INCHES (68.58 mm). FIVE OR LESS CHARACTER STENCILS TO BE 20.0 INCHES (508 mm) HIGH, 13.3 INCHES (337.82 mm) WIDE EXCEPT THE NUMBER "1" TO BE 3.3 INCHES (88.82 mm) WIDE AND THE LETTERS "M" AND "N" ARE TO BE 20.0 INCHES (508 mm) WIDE, 3.3 INCHES (88.82 mm) SPACING, CHARACTER THICKNESS TO BE 3.3 INCHES (88.82 mm). LOCATE WITH TOP OF CHARACTERS NEAR LEFT SIDE CENTER BETWEEN LANDING GEAR CROSS TUBES.



TURN AND PULL

* (47) TURN AND PULL

EMERGENCY EXIT

* (48) EMERGENCY EXIT

PULL

* (49) PULL

**MAXIMUM ALLOWABLE BALLAST
LEFT SIDE 82 POUNDS
RIGHT SIDE 82 POUNDS**

* (50) MAXIMUM ALLOWABLE BALLAST

212-M-11-1-10

Figure 11-1. Placards and markings (sheet 10)

42ND GEAR BOX OIL
CAPACITY 0.2 US QTS – 0.2 LITERS

* (51) CAPACITY

ENGINE OIL
FILLER CAP INSIDE

(56) ENGINE OIL FILLER CAP INSIDE

MAX. ELEV. NOSE DOWN **RIVET P**

(52) RIGGING RIVET

HYDRAULIC RESERVOIR INSIDE

(57) HYD RSVR INSIDE


CLOSE OPEN

* (53) CLOSE AND OPEN

TRANSMISSION
OIL ACCESS

(58) XMSN OIL ACCESS

ALL CARGO MUST BE SECURED
SEE FLIGHT MANUAL FOR LOADING INSTRUCTIONS

* (54) CARGO SECURING

TRANSMISSION OIL
CAPACITY 11.0 US QTS – 10.4 LITERS

* (59) CAPACITY

GEAR BOX
FILLER CAP ON TOP

(55) GEAR BOX FILLER CAP ON TOP

* (60) SERVICE XMSN WITH
EXXON TURBO OIL 25 OR
AEROSHELL TURBINE OIL 555
DO NOT MIX

212-M-11-1-11

Figure 11-1. Placards and markings (sheet 11)

205-076-058 RESERVOIR
 TOTAL SYSTEM CAP. 10 U.S.PTS=4.7 LITERS
 RESERVOIR CAP. 5.3 U.S.PTS=2.5 LITERS
 REFILL LEVEL CAP. 2.5 U.S.PTS=1.2 LITERS
 USE MIL-H-5606 HYDRAULIC FLUID
 SERVICE INSTRUCTIONS
 WHEN FLUID LEVEL IS VISIBLE
 FILL TO OVERFLOW

60A HYD. SYSTEM SERVICING

CAUTION
 USE ONLY FREON
 BASED CLEANERS
 FOR CLEANING

60B HYD. SYSTEM RESERVOIR CLEANING

28 V
 D.C.

61 28 VOLT D.C.

ALL CARGO MUST BE SECURED
 SEE FLIGHT MANUAL FOR
 LOADING INSTRUCTIONS
 MAX. ALLOWABLE WEIGHT 3500 LB
 100 LB PER SQUARE FOOT

*** 62** MAX. ALLOWABLE WEIGHT



*** 63** DOOR LOCK

LATCH PIN
 INSPECTION HOLE

*** 64** FIVE EACH SIDE

EMERGENCY
 EXIT

*** 65** EMERGENCY EXIT

PUSH FOR FUEL
 SUMP DRAIN

66 FUEL SUMP DRAIN

G
 R
 H
 O
 U
 R
 N
 E
 D

67 GROUND HERE

212-M-11-1-12

Figure 11-1. Placards and markings (sheet 12)

FUEL
 FUEL SYSTEM CAPACITY
 BASIC AIRCRAFT 220 U.S. GAL
 WITH 044 AUX KIT 260 U.S. GAL
 WITH 045 AUX KIT 400 U.S. GAL
 FUEL TYPE PER P.W.A. SPEC. 522
 SEE FLIGHT MANUAL FOR APPROVED FUEL

* (68) FUEL SYSTEM CAPACITY

ENGINE OIL
 CAPACITY 6.4 US QTS — 6.0 LITERS

* (69) CAPACITY

MAXIMUM ALLOWABLE
 WEIGHT 400 LBS.
 100 LBS. PER SQ FT

* (70) MAXIMUM ALLOWABLE
 WEIGHT

FULL FWD CYCLIC STICK **RIVET R**

(71) RIGGING RIVET

FULL AFT CYCLIC STICK **RIVETS ↓**

(72) RIGGING RIVET

212-M-11-1-13

Figure 11-1. Placards and markings (sheet 13)

