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Data Path: A1-H60CD-60R-000\Air Vehicle\General Aircraft Information\Ground Handling\GROUND HANDLING - PREPARATION FOR HOISTING HELICOPTER (USING 70073-85000-013 SLING INSTALLATION)

NMH60-R-10-00-0035-000-170F-A_002-00, 2022-07-15

GROUND HANDLING - PREPARATION FOR HOISTING HELICOPTER (USING 70073-85000-013 SLING INSTALLATION)

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Reference Materials Required

Referenced Data Modules

No referenced data modules.

Referenced Technical Publications

Technical Publication

Code	Title

Preliminary Requirements

Required Conditions

No required conditions.

Support Equipment Required

Nomenclature	CAGE Code	Part Number	Quantity
Universal Propeller Protractor	73030	GS18217	AR
Axle Jack (5 ton)	80049	53D22020	AR
Universal (Dockside) Lifting Sling Assembly	78286	70073-85000-013	AR
Plumb Bob	N/A	-	AR
Plumbline	N/A	-	AR

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Materials Required

Nomenclature	CAGE	Part Number	Quantity
Tape	N/A	ASTM D 5486, Type IV	AR
Rope	N/A	-	AR

Spares Required

No spares required.

Safety Conditions

WARNING

Maintain situational awareness while performing maintenance on the air vehicle to prevent personnel injury and equipment damage. Any Warnings, Cautions, and Notes shall be read and understood prior to performing this procedure.

WARNING

HAZARDOUS CONSUMABLE MATERIAL Warnings and cautions for hazardous materials listed in this IETM are designed to apprise personnel of hazards associated with such items when they come in contact with them by actual use. Additional information related to hazardous materials is provided in OPNAVINST 5100.23, Navy Safety and Occupational Health (SOH) Program Manual and the DOD 6050.05 Hazard Communication (HAZCOM) Program series publications. Consult your local safety and health staff concerning specific personnel protective requirements and appropriate handling and emergency procedures.

WARNING

To prevent death or injury to personnel, evaluate hazards using Operational Risk Management (ORM) and adhere to requirements of local Fall Protection Program to ensure all fall risks are properly mitigated. Hazard analysis shall include maintenance action specific safety equipment. Faulty/absent safety equipment shall be reported to local Fall Protection Program Manager or Competent Person for Fall Protection prior to performing aircraft maintenance. Failure to evaluate hazards and adhere to requirements of local Fall Protection Program could cause injury or death to personnel.

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Procedure

1 PREPARATION FOR HOISTING HELICOPTER (USING 70073-85000-013 SLING INSTALLATION)

(Figure 1 Preparation for Hoisting Helicopter (Using 70073-85000-013 Sling Installation)).

WARNING

Maximum safe working load for universal lifting sling, 70073-85000-013, is 18,720 pounds.

WARNING

Make sure rotor brake is locked.

WARNING

Prevent personnel from walking under aircraft.

WARNING

Do not use aircraft sling assembly if webbing or components are worn or damaged.

WARNING

Do not hoist helicopter with external stores (fuel tanks, ordnance, or other equipment) installed.

CAUTION

When hoisting with main rotor blades spread, blades should be aligned with BL 0.0.

CAUTION

Dragging sling assembly webbing on deck will damage webbing and shorten life of sling.

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CAUTION

Helicopter hoisting in winds of 15 to 25 knots shall be attempted only as an operational necessity. Hoisting helicopter in winds above 25 knots is prohibited unless specifically ordered by commanding officer.

NOTE

Whenever possible, hoist aircraft with empty fuel tanks.

NOTE

Aircraft may be hoisted with any fuel quantity, however, whenever possible, hoist aircraft with empty fuel tanks.

- 1.1 Inspect all aircraft sling assembly webbing and components before using (NAVAIR 17-1-114 Series).
- 1.2 Properly position rotor blades and make sure rotor brake is locked.
- 1.3 Connect configured aircraft sling assembly to suitable hoist/hook.
- 1.4 Determine color of chain link to be used in hoisting helicopter:
 - 1.4.1 Read Table 1. DOCKSIDE LOADING to determine AIRCRAFT STATUS.

NOTE

Table 1. DOCKSIDE LOADING provides approximate sling configuration for hoisting aircraft with a 0° pitch attitude and 0° roll angle.

NOTE

For dock side hoisting helicopter should be suspended so it has a 0° pitch attitude and 0° roll angle.

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NOTE

A 5-link adjustment in both fwd legs with aft legs remaining the same will result in a 1° change in pitch. A 6-link adjustment in both aft legs with fwd legs remaining the same will result in a 1° change in pitch.

NOTE

Make sure sling assembly webbing and chains are not twisted.

1.4.2 Note color of chain link to be used on forward and aft links of sling assembly.

CAUTION

Make sure keeper returns to locked position.

NOTE

Guide sling assembly chains so they do not damage helicopter structure or rotor blades.

1.5 Position sling assembly over center of rotor head and attach to hoisting points:

1.5.1 Pass chain through left aft lifting point and through open part of grab link assembly up to marked link. Slide marked link into slot. Secure loose end of chain with tape.

1.5.2 Repeat Step 1.5.1 for right aft lifting point.

1.5.3 Repeat Step 1.5.1 and Step 1.5.2 for forward lifting points.

1.6 Attach guide ropes to suitable tiedown rings to control helicopter.

1.7 Take up tension on sling assembly.

1.8 Remove chocks and release parking brakes. Lift helicopter.

1.9 After helicopter is positioned, apply parking brakes and install chocks. Remove guide ropes.

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NOTE

Guide sling assembly chains so they do not damage helicopter structure or rotor blades.

- 1.10 Remove sling assembly chains from lifting points and hoist sling clear of helicopter.
- 1.11 Lower sling assembly to deck and remove from hoist.

Table 1. DOCKSIDE LOADING

Basic Weight - Weight Empty + Mission Fuel					
Aircraft Status:					FWAFT LEGSEGS
Fuel Main in Rotor Tank	Tail Rotor Blade	Wt by lbs.	CG in.)	Color/ No. Links	
4012 LBSPFR (Full)		1065	55	RED	RED/67
		REMOVED	60	BLUE	BLUE/76
		FOLDED	59	GREEN	GREEN/71
		REMOVED	60	GREEN	GREEN/70
		REMOVED	50	BLUE	BLUE/75
* Configuration exceeds maximum safe working load for hoisting operations					

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Basic Weight - Weight Empty + Mission Fuel										
Aircraft Status:		Fuel in Tank		Main Rotor Blade	Tail Rotor Blade	Wt lbs	CG in.	Color	Code/No.	Link/No.
						FOLD	DB	60	GREEN	72/70
						NOISE	DB	65	GREEN	73
						REMOVED	DB	60	YELLOW	76/85
						FOLD	DB	68	BLACK	77
						REMOVED	DB	66	GREEN	72
						REMOVED	DB	60	YELLOW	76/85
						FOLD	DB	68	BLACK	77
* Configuration exceeds maximum safe working load for hoisting operations										

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**Primary Mission
 - USW - Weight +
 Sonobuoy
 Launcher &
 ALFS**

Aircraft Status:		FWAFT LEGS		
Fuel in Tank	Main Rotor Blade	Tail Rotor Blade	Wt CG (lbs/in.)	Color/No. Links
4012				
LBSP	RED	RED	763	RED/68
(Full)				
		REMOVED	69	BLUE/76
		FOLD	728	GREEN/71
		REMOVED	664	RED/67

Assumptions:
 Specific weight used for all calculations, no crewmen included, no expendables included
 (i.e. Torpedoes, Hellfire Missiles, Gun Ammunition)
 * Configuration exceeds maximum safe working load for hoisting operations

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**Primary Mission
 - USW - Weight +
 Sonobuoy
 Launcher &
 ALFS**

Aircraft Status:		FWAFT LEGS		
Fuel in Tank	Main Rotor Blade	Tail Rotor Blade	Wt CG (lbs/in.)	Color/No. Links
			REMOVED	BLUE/25/76
			FOLDED	GREEN/71
			NOISE	BLUE/81/74
			REMOVED	YELLOW/26/85

Assumptions:
 Specific weight used for all calculations, no crewmen included, no expendables included
 (i.e. Torpedoes, Hellfire Missiles, Gun Ammunition)
 * Configuration exceeds maximum safe working load for hoisting operations

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**Primary Mission
 - USW - Weight +
 Sonobuoy
 Launcher &
 ALFS**

Aircraft Status:	Fuel in Tank	Main Rotor Blade	Tail Rotor Blade	Wt lbs	CG in.	Color Link	Code /No. Links
				FOLD	177	BLACK	1428/78
				REMOVE	184	BLUE	181/74
				REMOVE	186	YELLOW	181/75
				FOLD	188	BLACK	1428/77

**FWAFT
LEGS**

Assumptions:

Specific weight used for all calculations, no crewmen included, no expendables included

(i.e. Torpedoes, Hellfire Missiles, Gun Ammunition)

* Configuration exceeds maximum safe working load for hoisting operations

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Primary Mission - SUW - Basic Weight + FLIR + LHEP & GAU-16									
* Configuration exceeds maximum safe working load for hoisting operations									

FWAFT
 LEGS
 Fuel Main Tail Wt CG Col Onr/No.
 in Rotor pyl (lbs in.) Link links
 Tank Blade
 REM 103/83 YELYEW/87
 FOLD 26 BLK/79

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Secondary Mission - SAR - Basic Weight + SAR Equipment					
Aircraft Status:	FWAFT	LEGS	LEGS	LEGS	LEGS
Fuel in Tank	Main Rotor Blade	Tail Rotor Blade	Wt (lbs)	CG (in.)	Color/No. Links
4012 LBS (Full)	SPR	SPR	19264	RED	RED/68
	REMOVED		19264	BLUE	BLUE/76
	FOLDED		19259	GREEN	GREEN/71
	REMOVED		19265	RED	RED/67
	REMOVED		19270	BLUE	BLUE/75
	FOLDED		19260	GREEN	GREEN/70
NOISE	SPR	SPR	15695	GREEN	GREEN/73
	REMOVED		19266	YELLOW	YELLOW/85
	FOLDED		19268	BLACK	BLACK/77
	REMOVED		19265	GREEN	GREEN/73

* Configuration exceeds maximum safe working load for hoisting operations

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<p>Secondary Mission - SAR - Basic Weight + SAR Equipment</p>										
			Aircraft Status:							
			Fuel in Tank	Main Rotor Blade	Tail Rotor Blade	Wt (lbs)	CG (in.)	Color	Qty	Link/No.
<p>* Configuration exceeds maximum safe working load for hoisting operations</p>										

FWAFT
LEGEES

REMOVED BY ELYEWC/85

FOLD DE 38 BLARKU/87

Requirements after Job Completion

Required Conditions

No required conditions.

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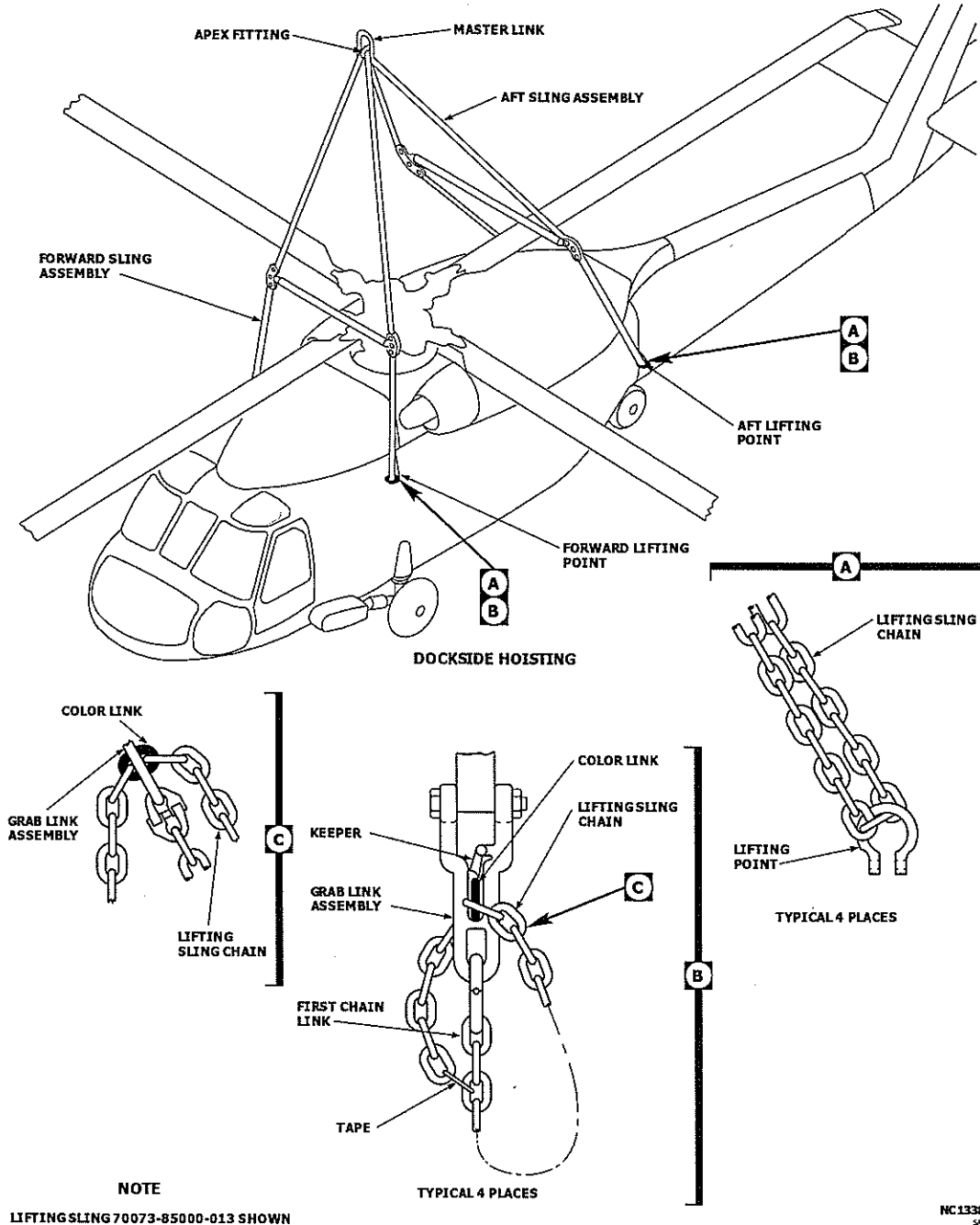
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Figure 1. Preparation for Hoisting Helicopter (Using 70073-85000-013 Sling Installation)



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