

HUGHES TOOL COMPANY-AIRCRAFT DIVISION 369-E-5005

ANALYSIS _____ MODEL 369HM REPORT NO. _____ PAGE 1

PREPARED BY R. R. Christensen 4/4/68 EQUIPMENT LIST FOR HUGHES MODEL 369HM HELICOPTER (COLOMBIAN CONTRACT NO. OF-007-FCR AJ)

CHECKED BY _____ Ship Serial Nos. 480001 thru 480004
 DELEGATION OPTION SERIAL NO. _____ REGISTRATION NO. _____
 AUTHORIZATION WE-1
 DATE _____

MANDATORY ITEMS MAY BE REPLACED BY APPROVED
 SUBSTITUTE NOTED IN "SPECIAL EQUIPMENT-NON-MANDATORY"

*	ON	NO.	ITEM	MANUFACTURER PART NO.	WT.	ARM
<u>Rotor & Controls-Mandatory</u>						
STD		1	Blades-Main Rotor (4)	HTC-AD 369A-1100	96.4	100.0
"		2	Dampers-Main Rotor (4)	" " -1400	7.3	100.0
"		3	Hub & Retention Instl. Main Rotor	" " -1200	56.2	100.0
"		4	Blades-Tail Rotor (2)	" " -1710	4.5	282.0
"		5	Tail Rotor Assembly	" " -1600	2.2	282.0
"		6	Vibration Absorbers- M/R Blades (4)	" " -1119	12.0	100.0
"		7	Cyclic Stick-Pilot	HTC-AD 369H-7136	1.0	60.7
"		8	Cyclic Stick-Co-Pilot	" " -7845	0.9	60.7
"		9	Grip Assy.-Cyclic Stick (2)	Guardian Elec. A218-962444-00	3.2	66.6
"		10	Guard Assy.-Cyclic Stick (2)	HTC-AD 369H-7138	1.0	63.1
"		11	Trim Assy.-Lat'l Cyclic	HTC-AD 369A-7170	2.0	68.5
"		12	Trim Assy.-Long. Cyclic	" " -7171-7	2.0	68.5
"		13	Control System-one way lock	" " -7010	1.2	69.4
"		14	Collective Stick-Pilot	" " -7307	1.6	67.9
"		15	Collective Stick-Co- Pilot	" " -7807	1.1	67.9
"		16	T/R Pedals-Pilot and Co-Pilot	" " -7502	2.0	42.6
"		17	T/R Pedal Arm Assy (2)	" " -7509	1.1	42.0
"		18	T/R Pedal Arm Assy (2)	" " -7501	1.1	42.0
"		19	Fairing-M/R Blades (4)	" " -1012	3.3	100.0
"		20	Fairing-Hub	" " -1013	0.6	100.0
"		21	Damper Lock Pins - M/R (4)	" " -1005	0.3	100.0
STD		22	Blade Lock Pins - M/R (8)	HTC-AD 369A-1004	1.5	100.0

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*	ON	NO.	ITEM	MANUFACTURER PART NO.	WT	ARM
<u>Body Enclosures-Mandatory</u>						
STD		101	Cockpit Doors (2)	HTC-AD M-30103	13.2	63.5
"		102	Engine Compartment Doors (2)	HTC-AD M-30095	7.6	156.0
"		103	Equipment Access Doors (2)	HTC-AD M-30101	3.3	53.0
"		104	M/R Transmission Cover	HTC-AD 369A-5010	1.4	103.5
"		105	Fairing Assy., Eng. Inlet, Fwd.	" " -2025	5.4	107.6
"		106	Fairing Assy., Eng. Inlet, Aft	" " -3014	4.9	138.1
"		107	Cover Assy., M/R Transmission, Aft	" " -5012	0.2	113.0
"		108	Access Door, M/R Trans, Rmrv1	" " -2019	1.1	107.0
"		109	Access Door, Cooler (2)	" " -2023	1.0	120.8
"		110	Aft Compartment Doors (2)	HTC-AD M-30098	15.2	100.0
"		111	Canopy Instl., Fwd	HTC AD 369A-2402	15.6	49.2
"		112	Window Instl., Aft	" " -3029	2.2	103.5
<u>Landing Gear-Mandatory</u>						
STD		201	Skid Instl., Main Landing Gear (2)	HTC-AD 369A-6100	12.6	79.2
"		202	Struts, Main Landing (a) Gear (4)-Spliced	" " -6001	19.7	97.9
"		202	Struts, Main-Landing (b) Gear (4)-Unspliced	" " -6001	15.2	97.7
"		203	Brace Assy., Main Landing Gear (4)	" " -6002	4.3	98.8
"		204	Shock Absorbers, Main Landing Gear (4)	" " -6300	6.4	102.3
"		205	Fairing, Main Landing Gear (4)	" " -6200	4.4	100.7

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Ship Serial Nos. 480001 thru 480004

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*	CON	NO.	ITEM	MANUFACTURER PART NO.	WT.	ARM
<u>Stabilizers-Mandatory</u>						
STD		301	Vertical Stab. & Skid-Lower	HTC-AD 369A-3650	2.1	282.7
"		302	Vertical Stab.-Upper	" " A-3625	4.1	288.0
"		303	Horizontal Stabilizer	" " A-3600	7.9	280.3
"		304	Strut Instl., Vert.-to-Horiz. Stab.	HTC-AD 369A-2001	0.6	286.0
<u>Engine & Engine Accessories-Mandatory</u>						
STD		401	Engine (Dry)	Allison C250-C18A	136.0	138.4
"		402	Starter-Generator	HTC-AD 369A-4550	17.0	134.0
"		403	Exhaust Pipes	" " A-8230	7.7	160.0
"		404	Blanket, Firewall	" " A-3018	1.2	145.0
"		405	Gear Box, Main (incl. 6.2 lb. oil)	" " A-5100	79.2	105.0
"		406	Engine Drive Shaft Assy.	" " A-5510	2.9	120.3
"		407	Impeller Assy., Oil Cooler Blower	" " A-5302	1.0	113.0
"		408	Scroll Assy., Oil Cooler Blower	HTC-AD M-30053	1.0	113.5
"		409	Oil Cooler (Dry)	HTC-AD 369A-8302	5.0	127.0
"		410	Deflector, Oil Cooler	" " A-8355	0.2	126.5
"		411	Duct Assy., Oil Cooler	" " A-8304	0.7	122.0
"		412	Fuel Cells (Dry)	" " A-8102	21.2	98.9
"		413	Oil Tank (Dry)	" " A-8301	1.2	130.5
"		414	Oil, Engine Lubrication (5.9 lb. drainable; 1.5 lb. trapped)	" " A-8301	7.4	130.0
"		415	Shut-off Valve, Fuel Sys.	" " A-8104	0.2	93.0

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*	OM	NO.	ITEM	MANUFACTURER PART NO.	WT.	ARM
<u>Engine & Engine Accessories-Mandatory (Continued)</u>						
STD		416	Tach. Generator (2)	HTC-AD 369A-4517	1.6	131.0
"		417	Tach. Generator, N ₁	" " -4517	0.8	117.0
"		418	Oil Temperature Sender	" " -4533	0.1	131.5
"		419	Oil Pressure Sender	" " -4534	0.4	131.5
"		420	Gear Box, T/R (with oil)	" " -5304	8.1	281.0
"		421	Drive Shaft, Tail Rotor	" " -5518	5.6	197.8
"		422	Clutch Assy., Main Drive Shaft	" " -5350	4.3	125.2
"		424	Drive Shaft, Main Rotor	" " -5500	9.6	100.4
"		425	Engine Cooling Ducts	" " -8008	1.3	130.0
"		426	Coupling Assy	" " -8084	.2	130.0
<u>Instruments-Mandatory</u>						
STD		501	Airspeed Indicator	HTC-AD 369H-4506	0.6	46.0
"		502	Altimeter	" " -4505	1.4	41.0
"		503	Compass, Magnetic	HTC-AD 369H-4508	0.6	37.0
"		504	Torque Indicator	HTC-AD M-30121	0.5	47.7
"		505	Temp. Indic., Turbine	HTC-AD 369A-4521	0.7	42.9
"		506	Eng. Oil Temp., Press Ammeter & Fuel Quant. Indicator	HTC-AD M-30122	0.8	49.2
"		507	Tachometer, Dual N ₂ & N _R	HTC-AD 369H-4518	1.3	47.4
"		508	Tachometer, N ₁	" "A-4516	0.8	46.7
"		509	Tank Unit, Fuel Quantity	" "A-4245	0.4	95.0
"		510	Pitot Tube Assembly	" "H-4222	0.1	35.7
"		511	Control Unit, Warning Eng. Power Out	" "A-4540	0.3	58.4
"		512	Air Temp. Indicator	" "-4515	0.2	34.0

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*	ON	NO.	ITEM	MANUFACTURER PART NO.	WT.	ARM
<u>Electrical Equipment-Mandatory</u>						
STD		602	Voltage Regulator	HTC-AD 369A-4552	1.2	48.1
"		603	Relay, Starter	AN 3371-2	1.3	130.5
"		604	Relay, Reverse Current	Hartman A700-XA	2.7	126.4
"		605	Battery (Nickel-Cad)	HTC-AD 369A-4530	23.5	49.2
"		606	Relay, Overvoltage	HTC-AD 369A-4557	0.1	50.0
 <u>Interior Furnishings & Equipment-Mandatory</u>						
STD		703	Seat Belts, Pilot, Co-Pilot (2)	HTC-AD 369H-6512-3	2.2	75.0
"		704	Approved Rotorcraft Flight Manual	HTC-AD 369X-8009	1.0	85.0
"		705	Seat Instl., Plt & Co-Pilot/Passenger	HTC-AD 369A-2005	6.0	78.0
 <u>Electronic Equipment-Non-Mandatory</u>						
OPT		801	VHF Comm., Bendix	RT221AE-28	4.3	44.0

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*	ON	NO.	ITEM	MANUFACTURER PART NO.	WT.	ARM
<u>Special Equipment-Non-Mandatory</u>						
OPT		901	Attitude Gyro	HTC-AD M-30133	3.0	43.0
"		902	Directional Gyro	200 DC AIM	3.0	43.0
"		903	Clock, Stop Watch	HTC-AD 369H-90043	0.8	45.0
"			Feature			
"		904	Rate-of-Climb Ind.	" " -90044	1.0	45.0
OPT		906	Running Time Meter	" " -90027	1.0	42.0
"		907	Night Lights with Cockpit Steps	" " -90005- 501	8.2	73.0
"		922	Fire Extinguisher	" " -90002	5.3	46.0
"		923	First Aid Kit	" " -90004	1.8	87.0
STD		924	Cargo Tiedown Fittings (8)	" " -20009	1.0	100.0
"		936	Aft Jacking Point (on Boom)	" " -90048	0.1	197.2
"		938	Nylon Cloth Seat, Pass. Compartment (2)	HTC-AD 369A-2011	5.3	107.0
"		940	Sam Browne Belt, Pass. Compartment (2)	HTC-AD 369H-6511-3	2.4	107.0
"		941	Ashtray	HTC-AD 369H-4211	0.7	48.0
"		942	Harness Assy., Plt. & Co-Pilot	" " -6514-3	2.8	78.0
"		943	Harness Assy., Rt. & Left Rear	" " -6513-3	1.0	110.0
"		944	Log Book Holder	" " -6602	1.7	85.0
"		945	Stowage Compartment	" " -6510	2.6	53.0
"		946	Pump Instl.-High Altitude Starting Boost	HTC-AD M-30092	1.8	93.5
OPT		947	Landing Light	MS25241-	0.9	34.3
"		948	Tail Light Installation	HTC-AD 369A-4588	0.2	287.0
"		949	Side Light Installation (2)	" " -4589	0.5	78.0
"		950	Anti-Collision Light (2)	" " -4285	0.7	90.0
"		951	Heating System Instl.	" " -8050	8.7	99.2

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HELICOPTER (COLOMBIAN CONTRACT NO. OF-007-

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