



FIGURE 12 - HARTZELL PROPELLER INSTALLATION

KEY	ITEM NO.	PART NUMBER	1	2	3	4	NOMENCLATURE	UNITS PER ASSY	USAGE
*1	9105	HC-12X20-1/8428R	Propeller	-	-	-	Controllable Pitch With Plastic Blades - -	NOTE	-1
*2	9105-10	HC-12X20-5/8428R	Propeller	-	-	-	Controllable Pitch With Plastic Blades - -	NOTE	-5
3	9105-20	HC-12X20-7B/8428R	Propeller	-	-	-	Controllable Pitch With Plastic Blades - -	1	-7, -7A, -7B
	9105-30	HC-12X20-7B/8433	Propeller	-	-	-	Controllable Pitch With Metal Blades	1	-7, -7A, -7B
4	9107	91-1	Hydraulic Element Assy (Hartzell)	-	-	-	- - - - -	1	-1
	9449	92-1	Jack With Link & Washers (Hartzell)	-	-	-	- - - - -	1	-1
	9114	H-222-70-44	"O" Seal Ring - Inner Element (Hartzell)	-	-	-	- - - - -	2	-1, -5
	9115	H-222-70-67	"O" Seal Ring - Outer Element (Hartzell)	-	-	-	- - - - -	1	-1, -5
5	9107-100	91-5	Hydraulic Element Assy (Hartzell)	-	-	-	- - - - -	1	-5
	9450	B-109	Jack Assy With Forks & Rods (Hartzell)	-	-	-	- - - - -	1	-5
6	9107-200	91-7	Hydraulic Element Assy (Hartzell)	-	-	-	- - - - -	1	-7, -7A, -7B
	9450-100	B-109-2	Jack Assy With Forks & Rods (Hartzell)	-	-	-	- - - - -	1	-7
	9450-110	B-109-3	Jack Assy With Forks & Rods (Hartzell)	-	-	-	- - - - -	1	-7A
	9450-120	B-109-4	Jack Assy With Forks & Rods (Hartzell)	-	-	-	- - - - -	1	-7B
7	9459	B-119	Diaphragm - Rubber (Hartzell)	-	-	-	- - - - -	1	-7, -7A, -7B
ATTACHING PARTS FOR HYDRAULIC ELEMENT ASSY									
8	1822	145-44014	Bracket Assy	-	-	-	- - - - -	1	-1
9	1816	145-44015	Bolt - Special	-	-	-	- - - - -	4	-1
10	1815	145-44021	Gasket	-	-	-	- - - - -	1	ALL
		NAS183-5-7A	Stud	-	-	-	- - - - -	4	-1, -5
11		AN960D516L	Washer - Plain	-	-	-	- - - - -	4	-1, -5
12		AN365-524	Nut - Self Locking	-	-	-	- - - - -	4	-1, -5
13	1831	145-44062	Cap Screws	-	-	-	- - - - -	4	-7, -7A, -7B
14	8532	2W1-AL-21-14-64	Washer	-	-	-	- - - - -	4	-7, -7A, -7B
15	9108	93-1	Valve Assy & Lever	-	-	-	- - - - -	1	-1
	9108-100	93-5	Valve Assy & Lever	-	-	-	- - - - -	1	-5
16	9108-200	93-7	Valve Assy & Lever	-	-	-	- - - - -	1	-7, -7A, -7B
	9112	H-222-70-10	"O" Seal Ring - Valve	-	-	-	- - - - -	2	-1, -5, -7
17	9109	94-1	Hub Assy With Pitot Tubes (Hartzell)	-	-	-	- - - - -	1	-1
	9109-100	94-5	Hub Assy With Pitot Tubes (Hartzell)	-	-	-	- - - - -	1	-5
18	9451	C-94	Hub Assy With Pitot Tubes (Hartzell)	-	-	-	- - - - -	1	-7, -7A, -7B
	9451-100	C-49-2A	Hub - Propeller (Hartzell)	-	-	-	- - - - -	1	-1, -5, -7, -7B
	9451-200	C-49-1A	Hub - Propeller (Hartzell)	-	-	-	- - - - -	1	-7A
19	1817	145-44022	Hub Spacer - Propeller Adjustment	-	-	-	- - - - -	1	ALL
20	9452	C-66-1	Clamp & Counterweight Assy (Hartzell)	-	-	-	- - - - -	1	-1
	9452-100	C-66-5	Clamp & Counterweight Assy (Hartzell)	-	-	-	- - - - -	2	-5
21	9453	C-66	Clamp & Counterweight Assy (Hartzell)	-	-	-	- - - - -	2	-7, -7A, -7B
	9453-100	C-3	Clamp (Hartzell)	-	-	-	- - - - -	2	-1, -5
	9453-110	C-3-1	Clamp (Hartzell)	-	-	-	- - - - -	2	-7, -7A
	9453-120	C-3-3	Clamp (Hartzell)	-	-	-	- - - - -	2	-7B
22	9110-10	A50-1	Rear Cone (Hartzell)	-	-	-	- - - - -	1	ALL
23	9111	A42	Front Cone (Hartzell)	-	-	-	- - - - -	1	ALL
24		AN5011-20	Nut - Propeller Hub Retaining (Non-controllable)	-	-	-	- - - - -	1	ALL
25		AN393-19	Pin Flat Head 3/16	-	-	-	- - - - -	1	ALL
26		AN5009-20	Snap Ring	-	-	-	- - - - -	1	ALL
27	9106	8428R	Blade - Propeller (Hartzell)	-	-	-	- - - - -	2	ALL
	9106-10	8433	Blade - Metal Propeller (Hartzell)	-	-	-	- - - - -	2	ALL
	9113	H-222-70-33	"O" Seal Ring (Clamp) (Hartzell)	-	-	-	- - - - -	2	ALL
28	1818	145-44018	Cover	-	-	-	- - - - -	1	-1, -5
		AN502-10-8	Screw - Drilled Fillister Head Machine	-	-	-	- - - - -	4	-1, -5
		AN936A10	Washer - External & Internal Teeth Lock	-	-	-	- - - - -	4	-1, -5
29	9092	145-44017	Hose Assy - Engine Oil to Propeller Control LH	-	-	-	- - - - -	1	2-1564
30	9093	75698	Hose Assy - Engine Oil to Propeller Control RH	-	-	-	- - - - -	1	2-250
	9092	145-44017	Hose Assy - Engine Oil to Propeller Control RH	-	-	-	- - - - -	1	251-1110
	9081	145-44020	Hose Assy - Engine Oil to Propeller Control RH	-	-	-	- - - - -	1	1111-1564
31		AN6264-4-17 1/2	Hose Assy - Engine Oil to Propeller Control LH	-	-	-	- - - - -	1	1565 & Subs
32		AN6264-6-11 1/2	Hose Assy - Engine Oil to Propeller Control RH	-	-	-	- - - - -	1	1565 & Subs
33	9146	3224X2	Bushing	-	-	-	- - - - -	2	2-1110
34	9132	352X6	Elbow	-	-	-	- - - - -	1	1111-1627
35	9131	352X4	Elbow	-	-	-	- - - - -	1	1111-1627
36	9133	400X4	Elbow	-	-	-	- - - - -	1	2-1110
37	9135	432X6	Elbow	-	-	-	- - - - -	1	1111-1627
38	1819	145-44052	Bushing	-	-	-	- - - - -	1	ALL
39		AN822-6-2	Elbow - 90° Flared Tube and Pipe Thread	-	-	-	- - - - -	1	1628 & Subs
40		AN823-4	Elbow - 45° Flared Tube and Pipe Thread	-	-	-	- - - - -	1	1628 & Subs
41		AN912-3	Bushing - Reducer	-	-	-	- - - - -	1	1628 & Subs
42		AN822-6-6	Elbow - 90° Flared Tube and Pipe Thread	-	-	-	- - - - -	1	1628 & Subs
43	1822	145-44014	Bracket - Propeller Control Cylinder Support	-	-	-	- - - - -	1	2-1110
44	1823	145-44003	Bracket - Regulator Lever Stop	-	-	-	- - - - -	1	-1, -5
45		AN4-13A	Bolt - Aircraft 1/4-28	-	-	-	- - - - -	2	-1, -5
46		AN960-416	Washer - Plain	-	-	-	- - - - -	6	-1, -5
47	1824	145-43015	Bolt - Stop Propeller Regulator Lever	-	-	-	- - - - -	1	-1, -5
48	1825	145-43023	Bracket - Propeller Control Cable Forward	-	-	-	- - - - -	2	ALL
49		AN4-13A	Bolt - Aircraft 1/4-28	-	-	-	- - - - -	2	ALL
50		AN960-416	Washer - Plain	-	-	-	- - - - -	8	ALL
51	1826	145-43026	Sleeve	-	-	-	- - - - -	4	ALL
52	1827	145-43020	Control Cable - Propeller Pitch	-	-	-	- - - - -	1	ALL
53	1828	145-43024	Knob - Control Cable	-	-	-	- - - - -	1	ALL
54		AN486-2	Clevis - Rod End Adjusting	-	-	-	- - - - -	1	ALL
55		AN24-10	Bolt - Clevis 1/4-28	-	-	-	- - - - -	1	ALL
56		AN320-4	Nut - Aircraft Shear	-	-	-	- - - - -	1	ALL
57		AN380-2-2	Cotter	-	-	-	- - - - -	1	ALL
58		AN316-4R	Nut - Aircraft Check	-	-	-	- - - - -	1	ALL
* Complete Assemblies Hartzell -1 not available									