**RIGHT WING** 

PLL INSPECTION PARTS LIST

STANDARD 49% KIT	

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REVISION DATE:	AUG.	01 R	EVISION: 1	MAN. TO MWO: RIGHT WING			
ART NO	REV.	DRAWIN	G ASSEM	BLY DESCRIPTION	QTY	CODE	BUILDER
				Assemble this wing first - RIGHT WING			
COMPLETE ASSEM	BLY						
640-V-2-5			640-V-2	UPPER SPAR CAP ANGLE. INSTALL TO WING SPAR EXTENSION 640-V-1-1 WITH 5/32 HOLES AND A5 RIVETS	1		
640-V-2-6			640-V-2	LOWER SPAR CAP ANGLE. INSTALL TO WING SPAR EXTENSION 640-V-1-1 WITH 5/32 HOLES AND A5 RIVETS	1		
640-V-1-1			640-V-2	INSTALL WING SPAR EXTENSION TO THE MAIN SPAR:THERE SHOULD BE 5mm GAP BETWEEN THE EXTENSION AND THE SPAR.	1		
			640-V-6	DRILL THE 3/16 HOLES IN THE NEW CAP ANGLES AND THE #20 HOLES IN THE WEB (AN3 BOLTS TOP & BOTTOM CAP,			
				6 A-5 RIVETS IN WEB)ENSURE THAT TIP IS STRAIGHT AND INLINE WITH REST OF SPAR.			
				MAIN SPAR - INSTALL THE WING SPAR EXTENSION 640-V-1-1 TO MAIN SPAR WITH 640-V-2-5 AND -6 INCLUDING L ANGLE AS SHOWN ON 640-V-2-WING SPAR EXTENSION ASSEMBLY. PLACE ON TABLE. THERE SHOULD BE 5mm GAP BETWEEN THE EXTENSION AND THE SPAR. DRILL THE 3/16 IN THE NEW CAP ANGLES AND THE #20 IN THE WEB, AN3 BOLTS TOP & BOTTOM CAP, 6 A-5 RIVETS IN WEB)ENSURE THAT TIP IS STRAIGHT AND INLINE WITH REST OF SPAR.			
AN3-7A				BOLT, WASHER, SL NUT	6		
640-V-2-8			640-V-2	INSTALL WITH THE L ANGLE TO THE EXTENDED SPAR WITH A5 RIVETS	1		
20-V-6-1			20-V-6	MAIN SPAR IS NOW COMPLETE	1		
20-V-7-1		20-V-7	20-V-11	NOSE RIBS - INSTALL ANGLES AS PER DRAWING 640-V-8	4		
L			20-V-8	STANDARD "L" FOR NOSE RIBS # 1 TO 4 L = 220 mm	4		
20-V-7-2		20-V-7	20-V-11	NOSE RIBS PISITION AND CLECO ALL NOSE RIBS TO THE SPAR STATIONS AS PER 640-V-11 STARTING	5		
				WITH #1, #2, ETC. IT IS IMPORTANT THAT THE LEADING EDGE IS LINED UP AND PARALEL TO THE SPAF NOSE RIB 640 IS NOT INSTALLED WHEN INSTALLING THE EXTENDED WING TANKS.	2	•	
20-V-3-6				INSTALL RIB STIFFENER / FUEL TANK STOPS ON NOSE RIBS #5 AND #7 (NOSE RIB #640 IS ONLY ADDED WHEN INSTALLING THE STANDARD WING TANKS) AS PER DRAWING 640-V-3 AND 640-V-11.	2		
20-V-7-3		20-V-7		REAR RIB. ALL REAR RIBS ARE THE SAME SIZE. SEE 640-V-11 FOR LEFT AND RIGHT RIB INSTALLATION. SEE NOTE FOR 640-V-7-3 RIB #10 ON 640-V-7. THE REAR SPARS MUST BE PARALLEL TO THE MAIN SPAF			
		20-V-9	20-V-11		2		
 L		1	20-V-8	STANDARD "L" FOR REAR RIBS # 1 TO 4 L = 160 & 210 mm	4		
4050		1		GROMMETS - INSTALL AS PER 640-V-8	1		
RB-243		20-M-6	20-M-6	SPAE-NAUR GROMMET	9		
				REAR RIBS PISITION AND CLECO REAR RIBS TO THE SPAR STATIONS AS PER 640-V-11 STARTING WITH #1, #2, ETC.			
20-V-9-3		20-V-9	1	FRONT CHANNEL DOUBLER - INSTALL TO 640-V-9-2	1		
20-V-9-2		20-V-9	20-V-10	FRONT CHANNEL - INSTALL TO NOSE RIBS	1		
20-V-9-5		20-V-9	20-V-9	REAR CHANNEL DOUBLER INSTALL TO 640-V-9-4	1		
20-V-9-4		20-V-9	20-V-10	INBOARD REAR CHANNEL - INSTALL TO REAR RIBS	1		
AN470AD5-5		+		RIVETS FOR 640-V-9-3 AND 5. SEE DCS FOR SOLID RIVET INSTALLATION.	†		

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REVISION DATE:		R	EVISION: 0	MAN. TO MWO: RIGHT WING			
ART NO	REV.	DRAWIN	G ASSEM	MBLY DESCRIPTION	QTY	CODE	BUILDER
20-V-9-6		20-V-9	20-V-10	OUTBOARD REAR CHANNEL- INSTALL TO REAR RIBS. OVERLAP BY 20mm DISASEMBLE ALL PARTS,	1		
	•	•	•	CLEAN ALL RIVET HOES AND RIVET EVERYTHING TOGETHER EXCEPT FOR THE REAR SPARS. CLECO		•	
		1	ı	ONLY AT THIS TIME.	-	1	
				NOTALL OVINCE. ALL OVINCE TO DE OLEMER AND INORESTED DESCRIPTING OLAMB INTO DI AGE	-		
				INSTALL SKIN(S) - ALL SKINS TO BE CLEANED AND INSPECTED BEFORE RIVETING. CLAMP INTO PLACE BEFORE DRILLING. MAKE SURE THAT THE WING SPARS ARE PARALLEL TO THE TABLE. MAKE SURE			
				THAT WING IS NOT TWISTED. PLACE SPACERS UNDER REAR SPARS SO THAT THE WING DOES NOT			
				MOVE WHEN DRILLING. WING RIBS MUST BE 90 DEG. TO SPARS.			
				TURN THE COMPLETE WING OVER SO THAT THE BOTTOM OF THE WING IS FACING UP. MARK THE			
			I	CENTER LINE OF ALL RIBS AND SPARS.			
640-V-2-9		640-V-11	640-V-2	POSITION AND INSTALL THE GUSSETS, TOP AND BOTTOM	4		
20-V-15-5		20-V-15	20-V-16I/B		1		
				FIT. SKIN HOLES MUST LINE-UP WITH RIB MARKER LINE. DRILL INTO RIBS AND REAR SPAR ONLY AND			
20.1/ 15.6		20.1/45	20.1/40	NOT THE MAIN SPAR	1		
20-V-15-6		20-V-15	20-V-16	I/B L.E. SKIN. POSITION TO RIBS AND SPAR AND CLAMP. MAKE TEMPORARY WOOD RIBLETS AS PER 640-V-16 TO SIMULATE RIB TIP. PLACE SPACER AT FRONT CHANNEL AND WRAP SKIN AROUND TO TOP	1	1	
				OF FRONT CHANNEL.			
20-V-15-8		20-V-15	20-V-15	BELLCRANK ACCESS COVER. CUT-OUT HOLE AS PER 640-V-15-5 AND POSITION THE COVER OVER THE	1		
	ı			SKIN.		ı	
94733			20-V-15	INSTALL4 RIVNUTS 3/16 DIA. INTO THE BOTTOM REAR SKIN AT ACCESS COVER.	4		
AN525-10R6			20-V-15	SCREWS + LOCK WASHER FOR ACCESS COVER. (MS35333-39)	4		
20-V-15-5A		20-V-15	20-V-16	BOTTOM REAR TIP SKIN. OVERLAP WITH INBOARD BOTTOM REAR SKIN AT RIB #9	1		
20-V-15-7		20-V-15	20-V-16	CENTER L.E. SKIN. LINE UP NOSE RIBS WITH EDGE OF WORK BENCH AND POSITION SKIN SO THAT ON	<b>E</b> 1		
	•	•	•	EDGE IS AT THE MAIN SPAR AND OTHER HANGING DOWN THE BENCH. THE SKIN MUST OVERLAP THE		•	
20.1/45.74		1	I	MAIN SPAR JUST PAST THE SPAR CAPS AS SHOWN ON 640-V-16			
20-V-15-7A				L.E. TIP SKIN.	1		
				INSPECT AND CLEAN HOLES BEFORE RIVETING THE FOUR BOTTOM SKINS TO THE SPARS AND RIBS. D NOT RIVET SKINS ONTO REAR CHANNEL AT THIS TIME. CLECO ONLY.	<u> </u>		
				INOT RIVET SKINS ONTO REAR CHANNEL AT THIS TIME: CLECO ONLT.			
				TURN THE WING ASSEMBLY TOP FACING UP.	-	-	
NSTALL CABLES			20-C-14	INSTALL CABLES, CONTROL ROD AND WIRING		-	
20-V-12-1		20-V-12			4		
			20-V-8	AllERON STOP	I . D		
20-V-9-1		20-C-5	20-C-5	AILERON BELLCRANK SUPPORT - COMPLETE BELLCRANK/SPOOL ASSEMBLY SEE AILERON BELLCRANK IPL TO ASSEMBLE	L+R		
 L				L ANGLE L=200	2		
20-C-14-2		20-C-14	20-C-14	CABLE ASSEMBLY RIGHT FWD SEE CONTROL CABLE - WING IPL TO ASSEMBLE	1		
20-C-14-4		20-C-14		CABLE ASSEMBLY RIGHT REAR SEE CONTROL CABLE - WING IPL TO ASSEMBLE	1		
20-C-5-3			20-C-5	AILERON ROD	1		
CW 5-12		1		ROD END	2	<u> </u>	
AN315-5				JAM NUT	2	<u> </u>	
AN5-12A				BOLT (PUSH ROD/BELLCRANK)	1	1	
AN960-516		+		WASHER (PUSH ROD/BELLCRANK)	5	+	

**RIGHT WING** 

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REVISION DATE:	:	RI	EVISION: 0	MAN. TO MWO: RIGHT WING			
PART NO	REV.	DRAWING	ASSEME	BLY DESCRIPTION	QTY	CODE	BUILDER
AN365-524				LOCKNUT (PUSH ROD/BELLCRANK)	1		
AN3-6				BOLT (CONTROL CBL'S/BELLCRANK)	2		
AN310-3				CASTELLATED NUT (CONTROL CBL'S/BELLCRANK)	2		
MS24665-132				COTTER PIN (CONTROL CBL'S/BELLCRANK) 1/16"	2		
				ALL CONTROL CABLES SHOULD NOW BE COMPLETED IN THE WING TO BELLCRANK.			
				FUEL SENDER WIRE 16 GAUGE L = 1470mm INSTALL WIRE 12" PAST WING	1		
				PASS WIRE THROUGH RIB INSPECTION HOLES AND TIE WRAP TO RIBS.	1		
					2		
OPTION			ļ	STALL WARNING SWITCH AS PER 640-E-16. INSTALLWIRES AT THIS POINT			
				ADDITIONAL WIRES MAY BE ADDED FOR WING TIP LIGHTS ETC. SEE 640-M-1 AND 640-M-2			
				FUEL TANK INSTALLATION - PART OF FUEL SYSTEM KIT.			
FUEL TANK				THE FUEL TANK MAY BE INSTALLED AT THIS TIME. A SMALL 4X4 INCH ACCESS COVER MAY BE	1		
1022 17441				INSTALLED ON THE BOTTOM SKIN, INBOARD OF NOSE RIB #4, FOR EASY INSPECTION OF THE FUEL			l
				FINGER SCREEN. NOTE THAT THE FUEL TANK MUST ONLY TOUCH CORK. USE 1/8" CORK AND GLUE			
				STRIPS TO TANK. RUN THE FUEL LINE PAST THE END OF THE WING BY ABOUT 12". NOTE THAT THE FL			
				LINE MUST NOT HAVE ANY LOW PONTS FOR WATER ACCUMILATION. SEE 640-V-8 (FUEL TANK IS PART			
				OF FUEL KIT		1	
SAE-30R7-KVL				3/8" GASOLINE HOSE L=500mm (PART OF FUEL KIT)	1		
HS-4				1/2" HOSE CLAMP (PART OF FUEL KIT	1		
640-E-4-6				FUEL TANK FINGER SCREEN (PART OF FUEL KIT	1		
125-6B			+	FLAIRED NIPPLE FROM FINGER SCREEN TO FUEL LINE. (PART OF FUEL KIT	1		
CCA-1550			ļ	CURTIS DRAIN VALVE	1		
NSPECTION:				SIGDATE			
			1	WING TRAILING EDGE INSTALLATION.			
20-V-12-3		20-V-12	20-V-13	AILERON SUPPORT GUSSET. INSTALL TO REAR WING CHANNEL, FLUSH TO BOTTOM OF REAR CHANNI	2		
				SEE 640-V-13 FOR EXACT LOCATION FROM RIB #8 AND #9.		1	
20-V-12-2		20-V-12	-	AILERON SUPPORT CHANNEL. INSTALL BOTTOM EDGE BETWEEN BOTTOM SKIN AND REAR CHANNEL.	1		
00 1 1 1		00.4.4		SEE 640-V-13 DRAWING AT BOTTOM OF PAGE AND 640-V-14		1	
20-A-1-1		20-A-1	-	AILERON RIGHT. BUILD THE AILERONS AS PER IPL AND	-		
				INSTALL AILERON PIANO HINGE TO 20-V-12-2 AS SHOWN ON 640-V-14, STARTING 2295+3mm FROM SPA ROOT AS SHOWN ON DRAWING 640-V-11. MAKE A POSSITIONING TEMPLATE OUT OF ALUMINUM AS	1		
				SHOWN ON 640-V-14 FOR EXACT HINGE POSITIONING.			
				INSTALL AILERON TO WING PIANO HINGE AND CHECK FOR APROX. TRAVEL DEFLECTION AS PER 640-A			
				7 AND 640-C-14	}	L	
				INSTALL AILERON ROD 640-C-5-3 TO AILERON FROM BELCRANK. NOW INSTALL THE AILERON STOP 20-	1		
	1			12-1 TO REAR RIB #7 WITH 6 A5 RIVETS.			
AN960-516			-	WASHER (PUSH ROD/AILERON)	6		

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REVISION DATE:		F	REVISION:	0 MAN. TO MWO: RIGHT WING			
PART NO	REV.	DRAWIN	IG ASSE	MBLY DESCRIPTION	QTY	CODE	BUILDER
AN365-524				LOCK NUT (PUSH ROD/AILERON)	1		
				INSTALL TRAILING EDGE OF WING AREA OVER FLAP			
20-V-12-41		20-V-12	20-V-13	RIBLET	1		
20-V-12-42		20-V-12	20-V-13	RIBLET	1		
20-V-12-43		20-V-12	20-V-13	RIBLET	1		
20-V-12-44		20-V-12	20-V-13	RIBLET	1		
20-V-12-45		20-V-12	20-V-13	RIBLET	1		
20-V-12-46		20-V-12	20-V-13	RIBLET	1		
20-V-12-47		20-V-12	20-V-13	RIBLET	1		
20-V-12-48		20-V-12	20-V-13	RIBLET	1		
20-V-15-1		20-V-15	20-V-16	WALKWAY SKIN. INSTALL - TOP . MAKE SURE THAT THE TRAILING EDGE SKINS FOLLOW THE WING	1		
			1	SHAPS AS PER 640-A-7. MAKE THE WOODEN JIG ON 640-A-7. TWO ARE REQUIRED FOR FLAP AND		<u> </u>	<u> </u>
		1	1	AILERON RIGGING.		1	
20-V-15-2		_	20-V-16	T.E. SKIN OVER RIBLETS TOP	1		
20-V-12-5			20-V-13	RIBLET GUSSET	4		
20-V-12-6			20-V-13	INBOARD GUSSET	1		
20-V-15-3		20-V-15	20-V-16	AILERON GAP COVER - TOP	1		
20-A-4-1R		20-A-4	20-A-6	FLAP RIGHT. ASSEMBLE RIGHT FLAP AS PER FLAP IPL. INSTALL HINGE TO REAR WING SPAR AS PER			
				640-V-14. MAKE SURE THAT THE FLAP DOES NOT INTERFERE WITH THE AILERON AND THAT IT DOES NOT STICK OUT PAST THE REAR SPAR AT THE FUSELAGE. SEE 640-V-11 DRAWING TOP RIGHT.			
				NOT STICK OUT FAST THE REAK STAK AT THE FOSELAGE. SEE 040-V-TT DIXAWING TOT KIGHT.		1	
		+					
20-V-14-1		20-V-14	20-V-14	TIE DOWN	1		
20-V-15-4		20 7 14	20 1 14	I/B TOP REAR WING SKIN	1		
20-V-15-4A				TOP REAR TIP SKIN	1		
20-1-10-47				TOT REAR THE ORIN	<del>'</del>		
20-E-11-1		20-E-11	20-V-16	FIBERGLASS TIP	1	+	
20-E-11-1 20-V-17-2			20-V-16 20-V-17	TIP ANGLE	1	+	
20-V-17-2 20-V-17-3			20-V-17 20-V-17	TIP ANGLE	1	+	
20-V-17-3 20-V-17-4			20-V-17 20-V-17	ANGLE	1	+	
20-V-17-4 20-V-17-5		20-V-17 20-V-17	20-V-17 20-V-17	TIP ANGLE	1	+	
20-V-17-5 20-V-17-1		20-V-17 20-V-17	20-V-17 20-V-17	WINGTIP	1	1	
ZU-V-1/-1		∠U-V-17	2U-V-17		I	+	
			1	DRILL THE WING SWEEP POSITIONING DIMPLE INTO THE LEADING EDGE SKIN ONLY, ON TOP OF THE SPAR. THIS HOLE IS TO BE LOCATED 3785 MM FROM THE I/B CENTER SPAR .ON THE REAR RIVET LINE		1	
				OF THE SPAR. THE EXACT LOCATION IS NOT IMPORTANT AS LONG AS THE LOCATION ON BOTH WING	S		
				IS THE SAME. SEE 640-V-0 DRAWING, LOWER LEFT CORNER.			
LANDING LIGHT		640-M-1		OPTION. INSTALL AS PER 640-M-1 AND 2 BEFORE CLOSING THE WING SKIN. INSTALLED ON LEFT WING	;		
			<u> </u>	ONLY.			

**RIGHT WING** 

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REVISION DAT	≣:	REV	/ISION:	MAN. TO MWO: RIGHT WING		·	
PART NO	REV.	DRAWING	ASSEMB	BLY DESCRIPTION	QTY	CODE	BUILDER
RE-CLOSING IN	SPECTI			SIG DATE			
.4			Α	A4 RIVETS. FINISH RIVETING ALL SKINS	200		
.5			А	A5 RIVETS. FINISH RIVETING ALL SKINS	1000		
HECK OFF LIST							
				CHECK THE FOLLOWING;			
				AILERON ROD ENDS - WITNESS HOLES			
				TRAVEL UP & DOWN ,FREEDON OF MOVEMENT			
				FLAP TRAVEL UP - DOWN			
				CLEAR OF FOULING			
				WING PROFILE CHECK			
				WIRING ROUGH IN INSTALLATION			
				CONTROL CABLES INSTALLED			
				SWEEP DIMPLE 3785mm FROM CENTRE SPLICE HOLE IN SPAR (TOP)			
1S20995C-32				AILERON & FLAP HINGE & FUEL LINE SAFETY WIRE 032	AS R		
			R	Ref. Std. Procedure A116-54 Aileron Adj. Part 1, A116-54 Flap Adj. Part 2			
NSPECTION:				SIGDATE:			
EFT WING			L	EFT WING. SAME ITEMS AS RIGHT WING EXCEPT:			
				NOTE: PITOT HEAD AND FITTINGS ARE PART OF THE INSTRUMENT KIT. THIS IS INSTALLED ON THE LEF WING ONLY.			
ITOT STATIC			11	NSTALL PITOT STATIC LINE AS PER 640-V-8			
87-4			1.	/4" NYLON TUBE	800m	ı	
87-4			1.	/4" NYLON TUBE	800m		
640-V-8-1				NSTALL TO NOSE RIB #4 IF REQUIRED. THE IMPORTANT THING IS THAT THE PITOT LINE GOES DOWN	11		
		•	В	BOTTOM OF WING TO PITOT HEAD. SEE 640-E-22 FOR HEAD LOCATION. SEE NOTES ON 640-E-22.			