	4	3		<u></u>			1		
	NOTES:					REV.	M BAIG D SAM	D RANKIN	
	1. REMOVE SHARP EDGES OR BURRS.				A	REVISED BOM & INSTALLATION INSTRUCTIONS.	06/08/21 06/08/21	06/08/21	
	2. TOUCH UP BARE ALUMINUM PER MIL-DTL-5541 TYPE 1, CLASS 3 OR EQUIVALENT USING A	LODINE			B	ADDED BOM ITEM 31	07/1/21 D SAW 07/17	07/1/21	
	3> INSTALL NUTPLATES APPROXIMATELY AS SHOWN.				C	UPDATED P/N FOR BOM ITEM 10	07/2/21 D SAIVI 07/2/	21 07/2/21 D RANKIN	
	4. FASTENER LENGTHS MAY VARY UP OR DOWN ONE GRIP LENGTH IF REQUIRED TO MEET F	ASTENER INSTALLATION REQUIREMENTS.			D	UPDATED BOM AND DETAIL ON SH.3	M BAIG D SAM 07/26/21 07/26/21	07/26/21	
	INSTALL RIVETS PER MIL-R-47196A.				E REVI	SED DRAWING LAYOUT. ADDED ALTERNATE INSTALL. CONFIGURATIONS.	ATION T BAILEY D SAM 8/16/2	21 T BAILEY 8/16/21	
	5> INSTALL USING BLUE THREADLOCKER (LOCTITE 242 OR EQUIVALENT).					REVISED DRAWING TEMPLATE, DRAWING VIEWS AND			
	TORQUE 8-32 FASTENERS TO 15-20 IN-LBS. TORQUE 10-32 FASTENERS TO 20-25 IN-LBS. TO	DROUE 1/4-28 FASTENERS TO 50-70 IN-LIBS			AR COMF	REVISED DRAWING TEMPLATE, DRAWING VIEWS AND RANGEMENT FOR CLARITY. REPLACED -301/-313/-315/PONENTS WITH -335 MOUNT BRACKET ASSEMBLY. UP	DATED A PRECIE	T DAILEY	
		TINGUE 1/4-201 ACTENERO TO 30-70 IIV-EDO.			F AL	ART NUMBER OF SERVO ARM. ADDED EXPLODED VIEV DDED 12V SERVO TO BOM. CHANGED NAS1802 BOLTS	NS. A. PRESTEL T. BAILEY TO 2/2/2022 2/5/22	T. BAILEY 2/5/22	
	APPLY TORQUE SEAL.				MS3	801. REVISED NOTES 4, 14 AND 17. CHANGED MS3533 5333-39. CHANGED 140-001-5 TO AN970-3. ADDED 2510 CHANGED NAS1149D0363J TO AN960-10.)-059.		
	7 LOCATE APPROXIMATELY AS SHOWN.					CHANGED NAST149D03030 TO AN900-10.			
	8 ADJUST BRACKET ANGLE TO MATCH EXISTING STRUCTURE AS REQUIRED .								
	9> SEE VIEW A-A FOR AIRCRAFT WITH 29" BAGGAGE BAY. SEE VIEW G-G FOR AIRCRAFT WITH	I 17" BAGGAGE BAY. SEE VIEW H-H FOR							
	AIRCRAFT WITH 12" BAGGAGE BAY. TRIM PITCH SERVO C-CHANNEL TO LENGTH SHOWN, B	BASED ON CONFIGURATION. UNIDENTIFIED							
	PARTS ARE SAME AS SHOWN ON VIEW A-A. NOT ALL PARTS REQUIRED FOR ALL CONFIGUI								
	10 MAINTAIN A MINUMUM OF .2" CLEARANCE BETWEEN ALL PUSHRODS AND FLIGHT CONTRO	L COMPONENTS THROUGHOUT THE FULL							
	RANGE OF TRAVEL.								
	11) ENSURE ELECTRICAL BONDING AND GROUNDING OF LESS THAN 2.5 MILLIOHMS BETWEEN	I PMA SERVO AND AIRCRAFT STRUCTURE							
	PER SAE ARP1870.								
	12. UNLESS OTHERWISE SPECIFIED, MAINTAIN FASTENER PITCH OF 4D-8D AND EDGE DISTAND LOCATIONS.	CE OF 2D, OR MATCH EXISTING FASTENER							
	13 ENSURE ROD END HAS MINIMUM 12 THREADS OF ENGAGEMENT INTO PUSHROD. INSTALL	USING LOCTITE 271 OR EQUIVALENT.				29 3 MS24694-S3	SCREW		
C						28 10 MS21059L08 NU	TPLATE, FLOATING, # 8-32	-	\Box C
	14 TRIM FLANGES TO PROVIDE MINIMUM .10 CLEARANCE TO EXISTING STRUCTURE. MAX .40	TRIM ALLOWED.				27 20 MS20426AD3	RIVET, CTSK, 3/32	-	
	15 VERIFY SERVO ARM DOES NOT CONTACT THE STOPS BEFORE FULL ELEVATOR DEFLECTION	ON, BOTH DIRECTIONS.				26 1 CM-3B-14	ROD END BEARING	-	
	16 VERIFY SERVO ARM POSITION IS VERTICAL (DOWN) +/- 5 DEGREES WHEN THE ELEVATOR	IS IN NEUTRAL POSITION.				25 1 MM-3-300 R	OD END BEARING, 10-32	-	
	17> ASSEMBLE WITH LOCTITE 271 OR EQULIVALENT AND TORQUE TO 50-55 IN-LB.					24 1 AN315-3	NUT, JAM	-	
							SCREW, HEX, 8-32 X .50"	-	
							BLIND RIVET, 1/4" GRIP	-	
						21 14 NAS1149FN832P	WASHER	-	_
						20 3 AN960-10 WA 19 4 MS35333-39	SHER, FLAT, #10 X .063 THK LOCK WASHER	-	
							OTTER PIN, .063" DIA X .75"	_	
							STELLATED NUT, THIN, 10-32	_	
							ASHER, LARGE O.D., # 10	_	
						15 1 AN315-4	NUT, JAM	-	
						14 1 AN3-16 BOLT, 10	0-32 X 1-25/32, DRILLED SHANK	-	
В						13 1 AN3-7 BOLT, HE	X, HOLE IN SHANK, 10-32 X .906"	-	В
						12 4 AN3-3A I	BOLT, HEX, 10-32 X .469"	-	
						11 1 8100-065 PA	MA SERVO, 24V, 60 IN-LBS MA SERVO, 12V, 60 IN-LBS	BENDIXKING	
						10 1 8000-177	PMA LINK SENSOR	BENDIXKING	
			Λ			9 1 2520-051	3.125" PUSHROD	BENDIXKING	
				A A		8 1 2510-059	SPACER	BENDIXKING	
						7 1 2500-218	SOCKET SET SCREW	BENDIXKING	
						6 3 2500-216 FLAT HEAD	SOCKET CAP SCREW, 8-32 X .375"	BENDIXKING	
						5 1 1420-209	SERVO ARM	BENDIXKING	
			V			4 1 PA-201130-339 PITCH S	ERVO C-CHANNEL ASSEMBLY	BENDIXKING	
							O MOUNTING BRACKET ASSEMBLY	BENDIXKING	
							CHANNEL BRACKET CLAMP	BENDIXKING	
							SERVO C-CHANNEL BRACKET	BENDIXKING	
						ITEM NO. QTY. PART NUMBER DIMENSIONS ARE IN INCHES LINE ESS OTHERWISE NOTED NAME DATE	DESCRIPTION	Vendor	_
A						UNLESS OTHERWISE NOTED THIRD ANGLE PROJECTION DRAWN CGP 5/7/2	1 7385	PEREGRINE SOUTH PEORIA STREET UNIT C4	A
						CHECKED D SAM 5/7/2	PEREGRINE F	NGLEWOOD, CO 80112	
						OTHERWISE SPECIFIED: X = ± .100	AUTOPILOT PITCH	I SERVO	
						MATERIAL SEE NOTES	INSTALL, MOONE	EY M20	
						FINISH SEE NOTES PROPRIETARY DATA NOTICE THE INFORMATION CONTAINED IN THIS DRAWING IS PROPRIETARY TO	SIZE DWG. NO.	REV	
			-503 AU	TOPILOT PITCH SERVO INSTALL, MOONEY M20		WEIGHT PEREGRINE AVIONICS LLC. ANY US	SE, D PA-201130-50)3 F	
						NEXT ASSEMBLY THIS DATA IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF PEREGRINE IS PROHIBITED.	SCALE: N/A DO NOT SCALE DRAW	ING SHEET 1 OF	5
	4	3					1		







