

Juselage

B 28-22

Ref. Sht. 12-13-814

DASH NO.	ITEM	NAT'L SIZE (4130)	NO. REQD.
401	tube-top longeron-fwd.	7/8 x .035 x 83	2
402	" (bot. ") "	" x " x 56	2
403	" top " aft.	3/4 x " x 102	2
404	" (bot. ") "	" x " x 129	2
405	" side vert. sta. A	" x " x 24	2
406	" side diag.	7/8 x " x 30	2
407	" " vert. sta. B	" x " x 25	2
408	" " " B-E1	" x " x 25 1/2	2
409	" " diag.	" x " x 32	2
410	" " vert. sta. C-C	" x " x 26 1/2	2
411	" " diag.	3/4 x " x 38	2
412	" " vert. sta. D-D	5/8 x " x 24	2
413	" " diag.	" x " x 37	2
414	" " vert. sta. E-E	" x " x 22	2
415	" " diag.	" x " x 35	2
416	" " vert. sta. F-F	" x " x 19	2
417	" " diag.	" x " x 31	2
418	" " vert. sta. G-G	" x " x 16	2
419	" " diag.	1/2 x " x 27	2
420	" " vert.	" x " x 11	2
421	" " diag.	" x " x 11	2
422	tube-tail post.	1 x .049 x 15	1
423	tube-top - sta. A-A	7/8 x .035 x 26	1
424	" " sta. B-B	1 x .049 x 28	1
425	" " sta. C-C	7/8 x .035 x 28	1
426	" " " D-D	3/4 x " x 25	1
427	" " diag.	5/8 x " x 35	1
428	" " sta. E-E	5/8 x " x 20	1
429	" " diag.	1/2 x " x 32	1
430	" " sta. F-F	5/8 x " x 14	1
431	" " diag.	1/2 x " x 27	1
432	" " sta. G-G	3/4 x " x 8	1
433	tube bott. sta. A	3/4 x " x 26	1
434	" " diag.	5/8 x " x 22	2
435	" " sta. B-B	7/8 x " x 28	1
436	" " pylon	7/8 x .049 x 17	2
437	" " pylon	" x " x 17	2
438	" " sta. B-B	1 x " x 28	1
439	" " diag.	3/4 x .035 x 19	2
440	" " diag.	" x " x 17	2
441	" " sta. C-C	1 x .049 x 28	1
442	" " diag.	5/8 x .035 x 31	2
443	" " sta. D-D	" x " x 25	1
444	" " diag.	" x " x 35	1
445	" " sta. E-E	" x " x 20	1
446	" " diag.	1/2 x " x 31	1
447	" " sta. F-F	5/8 x " x 14	1
448	" " diag.	1/2 x " x 27	1
449	" " sta. G-G	5/8 x " x 8	1
450	" " sta. A-A	5/8 x " x 27	2
451	" " diag. B-A	3/4 x " x 34	2
452	" seat - latt. front	7/8 x .049 x 28	1
453	" " rear	" x " x 28	1
454	" diag. sect. J-J	3/4 x .035 x 31	2
455	" sta. D-D	5/8 x " x 27	2
456	" sta. E-E	1/2 x " x 24	2
457	" sta. F-F	" x " x 20	2
458	" sta. G-G	" x " x 16	2
459	" seat support - latt.	7/8 x " x 7	2
460	" seat - front	1/2 x .049 x 17	2
461	" " rear	1/2 x " x 22	2
462	" spring anchor	1 x " x 2 1/2	1
463	" hand grip	3/8 x " x 5	2
464	" bell crank brace	1/2 x .035 x 28	1
465	" battery support	1/2 x " x 18	1
466	" harness supt. front	3/4 x .049 x 19	1
467	" " rear	3/4 x " x 16	1
468	" mount, stabilizer	1 x .035 x 4	1
469	" brace - bellcrank	3/8 x " x 9	1

BILL OF MATERIAL MA-5
Cowling-Formers-Stringer
(COWLING)

SHEET 15

ASH NO.	ITEM	MAT'L. SIZE	NO. REQ.
001	Cowling, top	30x34-.025, 2024-T3 AL-ALL.	1
002	" , sides L & R	20x30- " "	2
003	" , bottom	32x42- " "	1
004	Firewall	32x36-.016 18-8 Stainless Stl.	1
005	Coaming, Front	36x52-.025, 2024-T3 AL-ALL.	1
006	" , Rear	33x36- " "	1
007	Side Panel, Front, L&R	20x27- " "	2
008	" " Rear, "	20x27- " "	2
009	Coaming, Lower "	17x25- " "	2
010	Tunnel	20x24- " "	1
011	Belly pan	21x33- " "	1
012	Panel, Inst. - Front	8x28-.040 "	1
013	" , " Cover, Rear	10x28-.025 "	1
014	" , " Rear	10x28-.040 "	1
015	" , Baggage area	15x27-.025 "	1
" -1	Door, " "	8x16-.025 "	1
(FORMERS)			
021	Former, Firewall	1 1/2 x 48-.050, 5052-O AL-ALL.	2
022	" , Longitudinal L&R	1 1/2 x 51- " "	2
023	" , Bottom, Sta-16	" x 32- " "	1
024	" , Side , " 23 1/2	" x 26- " "	2
025	" , " , " 50	" x 27- " "	2
026	" , Bottom, " "	" x 30- " "	1
027	" , Side , " 74	" x 25- " "	2
028	" , Bottom, " "	" x 25- " "	1
029	" , Top , " 80	" x 40- " "	1
030	" , Top , " 99	" x 33- " "	1
031	" , Side , " "	" x 23- " "	2
032	" , Bottom, " "	" x 22- " "	1
033	" , Top , " 119	" x 28- " "	1
034	" , Side , " "	" x 20- " "	2
035	" , Bottom, " "	" x 20- " "	1
036	" , Top , " 139	" x 20- " "	1
037	" , Side , " "	" x 18- " "	2
038	" , Bottom, " "	" x 13- " "	1
039	" , Top , " 159	" x 12- " "	1
(STRINGERS)			
040-1	Stringer, Top	5/16 x 5/8 x 86 - Rectangle AL-ALL.	2
" -2	" , " "	" x " x 91 - "	2
" -3	" , " "	" x " x 64 - "	2
" -4	" , " "	" x " x 99 - "	2
" -5	" , " "	" x " x 85 - "	2
" -6	" , " "	" x " x 44 - "	2
" -7	" , Side	" x " x 110- "	2
" -8	" , " "	" x " x 110- "	2
" -9	" , " "	" x " x 86- "	2
" -10	" , Bottom	" x " x 87- "	2
" -11	" , " "	" x " x 112- "	2

DASH NO.	ITEM	MAT'L SIZE (4130)	NO. REQD.
501	tube - rear spar - stab.	1" x .035 x 37	2
502	" front " "	7/8 x .058 x 11	2
503	" brace " "	1/2 x .035 x 20	2
504	" diagonal " "	7/8 x .035 x 33	2
505	" leading edge " "	1/2 x " x 36	2
506	" rib A " "	1/4 x " x 24	4
507	" brace " " "	1/4 x " x 2	2
508	" rib B " "	" x " x 21	4
509	" brace " " "	" x " x 2	2
510	" rib C " "	" x " x 16	4
511	" brace " " "	" x " x 1 1/2	2
512	" rib D " "	" x " x 11	4
513	" brace " " "	" x " x 1 1/2	2
514	" brace ---- " "	" x " x 5	2
515	tube - main spar - elev.	7/8 x .035 x 48	2
516	" trailing edge " "	5/16 x " x 60	2
517	" diagonal " "	3/8 x " x 20	2
518	" rib A " "	1/4 x " x 16	4
519	" tip bow " "	3/8 x " x 20	2
520	" rib B " "	1/4 x " x 15	4
521	" brace-tip bow " "	1/4 x " x 6	2
522	" rib C - aft " "	" x " x 11	2
523	" " - fwd " "	" x " x 13	4
524	" " - brace " "	" x " x 1	2
525	" brace " "	" x " x 3	2
526	brackett - mount - elev.	Sheet 17	---
527	tube - front mount - stab.	3/4 x .058 x 17	1
528	" rear " " "	7/8 x .058 x 10	1
529	-----UNASSIGNED-----		
530	tube - spar - fin	1 x .035 x 30	1
531	" diagonal " "	7/8 x " x 36	1
532	" leading edge " "	1/2 x " x 34	1
533	" rib A " "	1/4 x " x 20	2
534	" brace " " "	" x " x 2	1
535	" rib B " "	" x " x 16	2
536	" brace " " "	" x " x 1 1/2	1
537	" rib C " "	" x " x 11	2
538	" brace " " "	" x " x 1 1/2	1
539	" ---- " "	" x " x 5	1
540	tube - spar- rudder	7/8 x .035 x 53	1
541	" rib A " "	1/4 x " x 21	2
542	" sect. A-A " "	" x " x 11	2
543	" rib B " "	" x " x 20	2
544	" trailing edge " "	5/16 x " x 74	1
545	" rib C " "	1/4 x " x 18	2
546	" rib D fwd. " "	" x " x 13	2
547	" " aft. " "	" x " x 13	2
548	" tip bow " "	3/8 x " x 20	1
549	" rib D-brace " "	1/4 x " x 1	1
550	" tip bow -brace " "	1/4 x " x 6	1
551	horn ----- rudder	Sheet 17	---

BILL OF MATERIAL

SHEET 18 of 19

RUDDER PEDAL ASSEMBLY

DASH NO.	ITEM	MAT'L SIZE (4130)	NO. REQD.
801	tube - lower pivot	7/8 x .058 x 3	4
802	" vertical	7/8 x .049 x 8	4
803	" upper pivot	7/8 x .065 x 1 3/4	4
804	" pedal rudder	7/8 x .065 x 2 3/4	4
805	" pedal brake	1/2 x .035 x 3	4
806	" brake pivot	3/4 x .049 x 4	4
807	arm - brake front	1 1/2 x 3 1/2 x .065 Sht.	2
808	" brake link	1 3/4 x 3 3/4 x .065 Sht.	4
809	" brake rear	3 x 3 1/2 x .065 Sht.	2
810	tube pivot locator	7/8 x .065 x 3/16	8
811	" pedal mt. - front	3/4 x .049 x 9 1/4	2
812	" pedal mt. rear	3/4 x .049 x 9	2
813	" pedal link pivot	3/8 x .065 x 1 1/2	4
814	angle pedal support	1 x .065 x 2 3/4 Sht.	4
815	plate rudder link	3/4 x 2 7/8 x .065 Sht.	4
816	tube rudder link	5/8 x .035 x 30	2
817	plate brake link	5/8 x 2 13/16 x .065 Sht.	4
818	tube brake link	1/2 x .035 x 30	2
820	" brake cyl. support	1/2 x 1/2 x .049 sq. x 8	2
821	bracket-brake cyl. support	1/2 x 1 3/4 x .090 Sht.	2

CONTROL COLUMN ASSEMBLY

825	tube - column	1 1/2 dia. x .035 x 29 1/2	1
826	bracket - mt. cont. stick	5 1/4 x 6 1/2 x .065 Sht.	2
827	bearing column	1 5/8 dia. x .065 x 1	2
828	bearing stop	1 5/8 dia. x .065 x 1/2	2
829	bracket ail. control - FRONT	2 1/8 x 4 7/8 x .065 Sht.	1
830	bracket ail. control - REAR	1 7/8 x 4 7/8 x .065 Sht.	1
831	tube control sticks	1 dia. x .035 x 19 3/4	2
832	plate " " - FRONT	3/4 x 3 x .090 Sht.	2
833	plate " " - REAR	2 x 3 x .090 Sht.	2
834	bush. " " - pivot	3/8 dia. x .065 x 1 1/2	2
835	" " " - pivot	3/8 dia. x .065 x 3/8	4
836	" bearing mount	3/8 dia. x .065 x 1 7/8	4
837	bellcrank - elevator	1 x 7 x .065 Sht.	2
838	axle bellcrank	5/16 x .065 x 6 1/4	1
839	horn elevator	1 1/4 x 6 x .065	2
840	tube column link	5/8 dia. x .035 x AL-AL 6061-T3	1
841	" - elevator-push/pull FT.	1 1/4 dia. x .058 x " " " " "	1
842	" " push/pull REAR	" " " " " " " "	1
843	" aileron -push/pull	3/4 " " " " " " "	2
844	" " actuator	1/2 " " " " " " "	2
845	" stab. mt. - forward	7/8 x .058 x 9 4130 STEEL	1
846	plate - guide	1 1/2 x 2 x .090 Sht.	2
847	tube brace	1/2 x .035 x 10	2
848	" retainer - nut	1 x 1 x .058 x 2 Sq. tube	1
849	bracket mount	2 x 4 x .065 Sht.	1
850	1. jack screw	1/2 x 5 1/2 rod	1
"	2. " " nut	7/8 x 7/8 x 7/8 brass	1
"	3. pulley	2 1/2 alum.	1
"	4. bearing	AN 218 P 5	1