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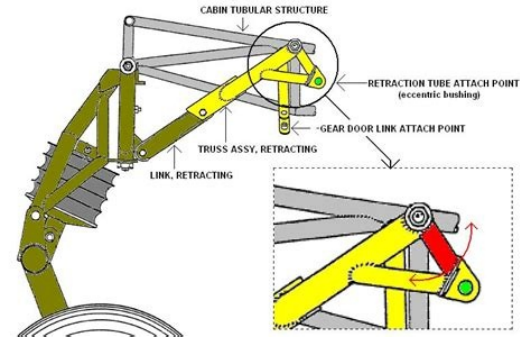
1962 mooney m20c parts manual

Mooney parts manual. 1962 mooney m20c specs. 1962 mooney m20c.

..... No attempt has been made to list optional equipment items.



Mooney print numbers are used in preference to vendor numbers where possible. 36 - FUEL SYSTEM. PAGE 310 312 314 316 318 320 322 324 325 326 vii/viii Blank WIN6 GROUP 1 Released March 9, 2022 Cleaner version, smaller file and easier to read. illustration index numbers refer to index numbers in the adjoining texts (parts callouts). CHASSIS GROUP FIG. 4 - WING CENTER SECTION. FIG. When the method of shipment (freight, express, parcel post, air express, air freight, or air parcel post) is not specified, or when the nature of the shipment requires special handling, parts will be shipped by the means most suitable to the shipper. 55C -DECALS & PLACARDS (1969-1975). FIG.



GROUP ASSEMBLY PARTS LISTINGS The body of the catalog lists all standard replaceable parts in the aircraft. An assembly includes all constituent subassemblies or detail parts effective for the same model and serial number (and color when applicable) that follow in that listing with a greater degree of indention to the right. 130 .132 . . 24 . 174 POWER PLANT GROUP FIG. 42- ENGINE INSTRUMENTS (1969 & on) •• FIG. 25A - ELECTRIC GEAR RETRACTION SYSTEM . Dimensions, systems routing, and irrelevant details have been intentionally dis- torted for maximum economy of space utilization. When the effectivity of a part is re- stricted to model the following letter codes are used; "C" limits the applicability of that part to aircraft with serial number 680001C & ON; "E" limits the applicability of that part to the M20E model, serial number 690001 & ON; "F" limits the applicability of that part to the M20F model, serial number 680001 & ON; "G" limits the applicability of that part to the M20G model, serial number 680001 & ON. • 6 . 10 - FIREWALL ASSEMBLY & CABIN SKINS . 308 vi FIG. Give complete address information including the zip code. 52- CABIN INTERIOR FURNISHINGS (C & E) . 34 - INDUCTION SYSTEM . 122 . 43 - VACUUM SYSTEM . 46- OVERHEAD VENTILATION SYSTEM •• FIG. 7 - WING AILERON & FLAP ASSEMBLIES • . 178 . • • • • FIG. The figure number is followed by a dash and the index number. 27- AILERON CONTROL SYSTEM • . . Series of nonillustrated detail parts are listed by their spatial order within the assembly as follows: forward to aft, top to bottom, inboard to outboard, and left to right. • 170 FIG. • • • • . 282 FIG. 146 FIG. 55A- DECALS & PLACARDS (1969-1975) . • FIG. 54 - DECALS & PLACARDS (1968) • • • • • • • • 304 FIG. When detail parts of the assembly are not individually portrayed, the attaching parts follow the detail parts. 48 56 60 68 74 . 53 - CABIN INSULATION • • • • . 182 • 186 . A group assembly index is included to help locate figure illustrations in the catalog. The EFFECTMTY column is blank where the part is applicable to all M20 series aircraft released from the factory October 15, 1967 through the latest catalog revision date on the lead page. Attaching hardware or parts, indented with the symbol "@are required for installation of one unit of the foregoing assembly.



Thus, a detail part can be traced to its respective higher assembly (that to which it assembles) by reading up to the first assembly listing or group of related assemblies in the first subcolumn to the left.



. . Attaching hardware or parts immediately follow the item they attach and pre- cede any detail parts of the foregoing assembly in the text callout, unless the detail parts of the assembly are not individually illustrated. • Parts are available only through the authorized Mooney facilities, and all orders received at the factory that originate from other sources will be referred to the appropriate facility for processing. The illustrations omit many details for the sake of clarity. 42A- ENGINE INSTRUMENTS (1968) ••• FIG. • 38A - ENGINE CONTROLS (1975 & on) . • . 45 - CABIN HEATING SYSTEM (1968 thru 1974) •• FIG. 32 FUSELAGE GROUP FIG. • 37- FUEL AND MANIFOLD PRESSURE SYSTEMS 38 - ENGINE CONTROLS (1968 thru 1974) • • 30A- FLAP CONTROL SYSTEM (ELECTRIC) . • 198 • 206 • 214 . 62-67' M20C; 63-66' M20D; 64-67' M20E; and 67' M20F 18- EMPENNAGE ASSEMBLY & INSTALLATION . 78 84 . Always specify the PART NUMBER, DESCRIPTION and QUANTITY of parts desired. 15 - CABIN DOOR (1968-1975) . 15A - CABIN DOOR (1975 & later) • . 41 - FLIGHT INSTRUMENTS (1969 & on) • FIG.

FIGURE 3B

CRUISE & RANGE DATA

WEIGHT = 2200 LBS.: BEST POWER MIXTURE
52 GAL. USABLE FUEL; NO RESERVE FOR RANGE CALCULATIONS
STANDARD ATMOSPHERE

ALTITUDE 7500' MSL

R.P.M.	M.P. IN.HG.	B.H.P.	% B.H.P.	GAL. HOUR	LBS. HOUR	TRUE AIR SPEED	ENDUR. HR:MIN.	RANGE Statute MILES
2600	22.5	145	81	11.8	70.8	184	4:25	811
	22.0	140	78	11.5	69.0	180	4:31	813
	21.0	132	73	10.8	64.8	173	4:49	831
	20.0	124	69	10.2	61.2	167	5:06	852
2500	22.5	142	79	11.4	68.4	182	4:34	829
	22.0	137	76	11.0	66.0	177	4:43	836
	21.0	129	72	10.4	62.4	171	5:00	855
	20.0	121	67	9.8	58.8	164	5:19	870
2400	22.5	138	77	10.8	64.3	178	4:49	855
	22.0	134	74	10.6	63.6	175	4:55	859
	21.0	126	70	9.9	59.4	169	5:15	888
	20.0	118	66	9.3	55.8	161	5:35	900
2300	22.5	134	74	10.6	63.6	175	4:55	859
	22.0	130	72	10.2	61.2	172	5:06	877
	21.0	122	68	9.6	57.6	165	5:25	893
	20.0	114	63	9.0	54.0	158	5:46	912
1800*	16.8	72	40	6.0	36.0	117	8:40	1013

* MAXIMUM RANGE
ACCURACY OF DATA IS ± 3%
EACH 100 LBS. CHANGE IN AIRPLANE WEIGHT
WILL AFFECT TAS BY 1.2 MPH.

• • • • 28- ELEVATOR CONTROL SYSTEM ••• 19 - HORIZONTAL STABILIZER & STINGER ASSEMBLY . 8 CABIN INTERIOR GROUP 9 EXTERIOR TRIM GROUP 10 ELECTRICAL GROUP GROUP ASSEMBLY INDEX PAGE WING GROUP FIG. 49- RETRACTABLE AND FIXED STEP •••• 228 232 236 240 244 248 252 260 264 268 274 278 CABIN INTERIOR GROUP FIG. 3 - WING STUB & REAR SPAR ASSEMBLIES FIG. the manual lists titles and page numbers of all group assembly illustrations in the catalog. 29- RUDDER CONTROL & NOSE GEAR STEERING SYSTEM • 156 FIG. APPENDIX The numerical index lists all Mooney-manufactured parts in the catalog and the pages on which they are entered. 44- PITOT & STATIC PRESSURE SYSTEMS •• FIG. 14 - INSTRUMENT PANEL STRUCTURE (1968) . 52A- CABIN INTERIOR FURNISHINGS (F & G) 296 FIG. 32 - POSITIVE CONTROL SYSTEM • • . EMPENNAGE GROUP FIG. • . Abbreviations used in the description column are as follows: @ NI LH RH - attaching parts - not illustrated - left hand -right hand ws FS BL AR - wing station - fuselage station -butt line - as required IB OB LE TE -inboard - outboard - leading edge - trailing edge Each entry in the UNITS PER ASSEMBLY column represents the total number of that part or assembly used in or for one unit of the next higher assembly. 28 . < 1 2 3 4 5 WING GROUP FUSELAGE & TAIL CONE GROUP EMPENNAGE GROUP CHASSIS GROUP CONTROL SYSTEMS GROUP 6 POWER PLANT GROUP 7 SYSTEMS GROUP, MISC. 40 - ENGINE BAFFLE SYSTEM (M20C & G) • • 40A- ENGINE BAFFLE SYSTEM (M20E & F) ••••• 26 - GEAR DOOR ASSEMBLIES & RETRACTION . 9- CABIN TUBULAR STRUCTURE . HOW TO ORDER PARTS Place your order with the Mooney Marketing or Service Center in your area. 55 - DECALS & PLACARDS (1969-1975) . 142 v PAGE FLIGHT CONTROL SYSTEMS GROUP FIG. 2- WING MAIN SPAR & MAIN LANDING GEAR ATTACH ASSEMBLIES • • • • . • 222 MISCELLANEOUS SYSTEMS GROUP FIG. 86 90 . 104 LIABILITIES Orders are double checked before leaving the shipping department, and a packing slip is enclosed in the shipment. 54B- DECALS & PLACARDS (1968) • • • • . 30 - FLAP CONTROL SYSTEM (HYDRAULIC) . INTRODUCTION The introduction section should be read carefully to become familiar with the catalog arrangement and the cor- rect procedure in ordering parts. 12 - TAIL CONE SECTION . 40 . 5 - WING SKINS & INSPECTION COVERS • • FIG. Mooney Corporation cannot be held Hable for damage to parts incurred in transit. 2 FIG. 56 - DECALS & PLACARDS (1976) . 57B- MATERIAL & PAINT CHART (1974-1976) . Therefore, it is essential that the illustrations not be used as guides for reassembly and installation of parts. 16 - BAGGAGE DOOR . 110 • 114 .118 . The DESCRIPTION column is divided into subcolumns to show the analysis by partition assemblies into parallel levels of subassemblies and detail parts. TO LOCATE A PART One or both of the indexes can be used in locating parts in the body of the catalog: The GROUP ASSEMBLY INDEX in the introduction section ci. CAUTION This parts catalog is intended only to aid in the ordering of replacement parts. This is the part number to be used in making an order. 6- WING OUTBOARD SECTION • 56B - DECALS & PLACARDS (1976) EXTERIOR TRIM GROUP FIG.

FIG. • • • • • 302 FIG. A • Fo R E W O R D This illustrated parts catalog is designed to assist in the identification of standard re- placement parts for Mooney M20 series aircraft,1968 models and on. Be sure to include the part CODE NUMBER when listed in the Parts Price List manual and indicate the MODEL and SERIAL NUMBER of the aircraft for which the parts are intended.

136. The PART NUMBER column identifies the item by its assembly or detail part number.

PAGE NUMBER *36 *38 *39 *48 *51 *52 *53 *54/55 BLANK *119 *139 *140 *187 *227 thru 328 DATE OF LATEST REVISION June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 June, 1977 Added PAGE NUMBER DATE OF LATEST REVISION *THE ASTERISK Iii'DICATES PAGES REVISED, ADDED, OR DELETED BY THE CURRENT REVISION. The 1965-1967 parts catalog should be referenced for parts applicable to aircraft serial numbers prior to 680001. 160 FIG. The following is a brief explanation of the columns and abbreviations in the parts listings: The FIGURE & INDEX NO. 56A - DECALS & PLACARDS (1976) . 190 • 196 • . 22 - MAIN GEAR ASSEMBLY & INSTALLATION . 39 - OIL SYSTEM • • • • • . 102 .. 57 - PAINT CHART • . 126 . Transportation charges for returned goods must be prepaid or the shipment will be refused. These index numbers are key- ed to those in the accompanying illustration. 14A- INSTRUMENT PANEL STRUCTURE (1969-1974) . 12 16 . ADDITIONAL COPIES OR CURRENT REVISIONS OF THIS PUBLICATION MAY BE PURCHASED FROM YOUR LOCAL MOONEY DISTRIBUTOR OR DEALER. When effectivities change within the model year, the symbol "*" plus a Roman numeral refers to a footnote serial number explanation printed on the last page of the figure text. 166 FIG. 51- REAR SEAT ASSEMBLIES • • • . MECHANISMS . Consequently, when an entry has an indented ("."or "@") part description, its units per assembly column shows the number of items required to complete or attach one of the next higher assembly of which it is a component or an attaching part. 47- HYDRAULIC BRAKE SYSTEM • • • • • FIG. An entry in the effectivity column indicates a special or limited use of that part. • ELECTRICAL SYSTEM GROUP NOTE: For electrical system schematics and parts listings see Service & Maintenance Manual (Manual #106).

• • • 306 FIG. Goods returned without notice will be held at owner's risk for thirty days and then be disposed of at the company's discretion. • 292 FIG. 36. Claims for errors or shortages must be made within three days after receipt of orders, and no material should be returned withou~ first obtaining written permission from the factory. 13- FLOORBOARD SECTION . column shows the illustration figure number only at the top of each parts list- ing page. Structural rivets are not tabu- lated, since they are often replaced in larger sizes. • 218 . 17 - WINDSHIELD & WINDOWS . 14B - INSTRUMENT PANEL STRUCTURE (1975 & ON) . Index numbers should not be used in identifying parts for ordering purposes. i It should be noted that some portrayed assemblies bearing encircled index numbers omit some of the more significant detail parts (such as skins) for the purpose of clarity. If a shipment is received in a damaged condition, have the de- livery man or shipping company make a notation of the damage and file the claim with the carrier. 8 - ENGINE COWLING . 33- ENGINE & PROPELLER INSTALLATION .. Parts of the same description, differing only as left and right hand units, are listed together and are fol- lowed by both identical component parts and those which are peculiar to either the left or right hand as- semblies. 94 96 . 50- FRONT SEAT ASSEMBLIES . • • • 48- COWL FLAP CONTROL SYSTEM • FIG.

• • • • • 286 FIG. 150 FIG. 41A - FLIGHT INSTRUMENTS (1968) • • • • • . 31 - TRIM CONTROL SYSTEM . 57A - MATERIAL & PAINT CHART (1968-1973) . 23 - NOSE GEAR ASSEMBLY & INSTALLATION . 54A - DECALS & PLACARDS (1968) . 55B- DECALS & PLACARDS (1969-1975) . • FIG. Those parts not listed separately are items that lose their identity through being an integral part of assemblies which would be impracticable to stock other than as complete assemblies. 25 - MANUAL GEAR RETRACTION SYSTEM . ii GROUP ASSEMBLY INDEX iii 21- ELEVATOR & RUDDER ASSEMBLY & INSTALLATION (1968) . Common hardware used in tube and wire routing is not listed, since such items are seldom replaced or are readily available at aircraft maintenance stations. 20 - VERTICAL STABILIZER ASSEMBLY & INSTALLATION . 45A- CABIN HEATING SYSTEM (1975 & on) FIG. • . The NUMERICAL INDEX in the appendix section of the manual tabulates all Mooney-manufactured part numbers listed in the catalog body with the pages on which they are entered. The abbreviation "NI" designates the more signif- icant nonillustrated items. Each illustration is accompanied by an assembly breakdown in its adjacent text. 11- BELLY SKINS AND INSPECTION COVERS . 21A- ELEVATOR & RUDDER ASSEMBLY & INSTALLATION (LATE 1968 & ON) . 24 ~- WHEEL & TIRE ASSEMBLIES . 1- WING ASSEMBLY & INSTALLATION . Home General Vintage Mooneys (pre-J models) M20C Parts manual ~-LIST OF REVISED PAGES ISSUED~-- Ili'SERT LATEST REVISED PAGES--DESTROY SUPERSEDED PAGES.

35 - EXHAUST SYSTEM • • • . Encircled illustration index numbers, without leader lines, are used to designate the entire adjacent assembly shown as a unit.