



U.S. Department of Transportation
Federal Aviation Administration

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

McFarlane Aviation, Inc.
696 E 1700 Road
Baldwin City, KS 66006

PMA No.: PQ3732CE
Supplement No.: 167
Date: April 9, 2021

Article Name	Article Number	Approved Replacement For Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Control, Ram Air	MC640257-017	640257-017	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20E (s/n 21-0001 thru 21-1180, 690001 thru 690073, 700001 thru 700061), M20F (s/n 22-0001 thru 22-1439, 680001 thru 680206, 690001 thru 690092, 700001 thru 700072), M20J (s/n 24-0002 thru 24-0377)
Control, Propeller Governor	MC660166-003	660166-003, 660166-3	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20C (s/n 20-0001 thru 20-0009, 20-0011 thru 20-0046, 690001 thru 690098, 700001 thru 700091), M20E (s/n 21-0001 thru 21-0037, 21-0039 thru 21-0060, 690001 thru 690073, 700001 thru 700061), M20F (s/n 22-0001 thru 22-0078, 700001 thru 700072), M20G (s/n 690001 thru 690020, 700001 thru 700006), M20J (s/n 24-0002 thru 24-0377)
Control, Mixture	MC660166-005	660166-005, 660166-5	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20E (s/n 21-0001 thru 21-1180, 690001 thru 690073, 700001 thru 700061), M20F (s/n 22-0001 thru 22-1439, 22-1179 thru 22-1439, 690001 thru 690092, 700001 thru 700072), M20J (s/n 24-0002 thru 24-0377)
Control, Throttle	MC660166-007	660166-007, 660166-7	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20E (s/n 21-0001 thru 21-0037, 21-0039 thru 21-1180, 690001 thru 690073, 700001 thru 700061), M20F (s/n 22-0001 thru 22-1439, 690001 thru 690092, 700001 thru 700072), M20J (s/n 24-0002 thru 24-0377)
Control, Throttle	MC660166-009	660166-009	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20C (s/n 20-0001 thru 20-0009, 2742, 20-0011 thru 20-1258, 690001 thru 690098, 700001 thru 700091), M20G (s/n 690001 thru 690020, 700001 thru 700006)

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Control, Mixture	MC660189-003	660189-003, 660189-3	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20E (s/n 470 thru 1308), M20F (s/n 660002 thru 660004, 670001 thru 670539, 680001 thru 680206)
Control, Propeller Governor	MC660189-005	660189-005, 660189-5	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20C (s/n 680001 thru 680198 and 2742), M20E (s/n 470 thru 1308), M20F (s/n 660002 thru 660004, 670001 thru 670539, 680001 thru 680206), M20G (s/n 680001 thru 680164)
Control, Throttle	MC660190-003	660190-003, 660190-3	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20C (s/n 2807 thru 3466, 2742, 670001 thru 670149, 680001 thru 680198), M20D (s/n 252 thru 260), M20G (s/n 680001 thru 680164)
Control, Throttle	MC660190-005	660190-005, 660190-5	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20E (s/n 470 thru 1308), M20F (s/n 660002 thru 660004, 670001 thru 670539, 680001 thru 680206)
Control, Throttle	MC660226-001	660226-001	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20J (s/n 24-0378 thru 24-3431)
Control, Propeller Governor	MC660226-003	660226-003	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20J (s/n 24-0378 thru 24-3431)
Control, Mixture	MC660226-005	660226-005, 660226-5	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20J (s/n 24-0378 thru 24-3431), M20R (s/n 29-0001 thru 29-0525), M20S (s/n 30-0001 thru 30-0065), M20TN (s/n 31-0001 thru 31-143), M20U (s/n 32-0001 thru TBA), M20V (s/n 33-0001 thru TBA)

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Control, Throttle	MC660226-007	660226-007	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20K (s/n 25-0001 thru 25-0841)
Control, Propeller Governor	MC660226-009	660226-009	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20K (s/n 25-0001 thru 25-2032)
Control, Mixture	MC660226-011	660226-011	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20K (s/n 25-0001 thru 25-2032)
Control, Throttle	MC660226-013	660226-013	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20K (s/n 25-0842 thru 25-0999)
Control, Throttle	MC660226-015	660226-015	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20K (s/n 25-1000 thru 25-1066)
Control, Throttle	MC660226-017	660226-017	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20K (s/n 25-1067 thru 25-2032)
Control, Throttle	MC660226-019	660226-019, 660226-021	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20M (s/n 27-0001 thru 27-0355)

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Control, RPM	MC660226-023	660226-023	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20M (s/n 27-0001 thru 27-0355), M20R (s/n 29-0001 thru 29-0525), M20S (s/n 30-0001 thru 30-0065), M20TN (s/n 31-0001 thru 31-143)
Control, Mixture	MC660226-025	660226-025	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20R (s/n 29-0001 thru 29-0525), M20S (s/n 30-0001 thru 30-0065), M20TN (s/n 31-0001 thru 31-143), M20U (s/n 32-0001 thru TBA), M20V (s/n 33-0001 thru TBA)
Control, Throttle	MC660226-027	660226-027	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20R (s/n 29-0001 thru 29-0525), M20S (s/n 30-0001 thru 30-0065), M20TN (s/n 31-0001 thru 31-143), M20U (s/n 32-0001 thru TBA), M20V (s/n 33-0001 thru TBA)
Control, RPM	MC660226-029	660226-029	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20U (s/n 32-0001 thru TBA), M20V (s/n 33-0001 thru TBA)
Control, Throttle	MCVA660190-003	660190-003, 660190-3	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20C (s/n 2807 thru 3466 and 2742, 670001 thru 670149, 680001 thru 680198 and 2742), M20D (s/n 252 thru 260), M20G (s/n 680001 thru 680164)
Control, Throttle	MCVA660190-005	660190-005, 660190-5	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20E (s/n 470 thru 1308), M20F (s/n 660002 thru 660004, 670001 thru 670539, 680001 thru 680206)
Control, Throttle	MCVA660226-001	660226-001	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20J (s/n 24-0378 thru 24-3431)

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Control, Throttle	MCVA660226-015	660226-015	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20K (s/n 25-0001 thru 25-2032)
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Control, Throttle	MCVA660226-027	660226-027	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 1639 <u>Rev:</u> ~ <u>Date:</u> 10/13/2020 or later FAA-approved revisions	Mooney	M20R (s/n 29-0001 thru 29-0525), M20S (s/n 30-0001 thru 30-0065), M20TN (s/n 31-0001 thru 31-143), M20U (s/n 32-0001 thru TBA), M20V (s/n 33-0001 thru TBA)

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GENERAL NOTES:

Provide minor design changes in a manner as determined by the ACO. Process major design changes to drawings and specifications in the same manner as that for an original FAA-PMA.

The FAA accepted the ICA approach for the above articles with their designs. These ICA may refer to those of the respective articles from the holders of type certificates. Otherwise, provide supplementary ICA for differences in the replacement articles. Make referral statements or supplemental ICA readily available per 14 CFR § 21.50.

**JOHN M
TALLAROVIC** Digitally signed by
JOHN M TALLAROVIC
Date: 2021.04.09
14:37:08 -05'00'

for Timothy P. Smyth
Manager, Chicago ACO Branch
Compliance & Airworthiness Division

**Timothy
Dale Rainey** Digitally signed by
Timothy Dale Rainey
Date: 2021.05.06
14:30:52 -05'00'

for Neal R. Rice
Manager, Wichita MIDO Section
System Oversight Division