



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.: 174  
Date: September 9, 2021

| Article Name | Article Number | Approved Replacement For Article Number | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility          | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------|----------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ring         | MC153-00200    | 153-00200, 762-534                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc           | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, J4, J4A, J4A-S, J4B, J4E (ARMY L-4E), J4F, PA-11, PA-11S, PA-15, PA-16, PA-16S, PA-17, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150" s/n 18-3781 thru 18-8309025, PA-20, PA-20 "115", PA-20 "135" |
| Ring         | MC153-00200    | 153-00200, 762-534                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2001 Corp.                 | AE-1, HE-1, J5A (Army L-4F), J5A-80, J5B (Army L-4G), J5C                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ring         | MC153-00200    | 153-00200, 762-534                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2002 Corp.                 | PA-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Ring         | MC153-00200    | 153-00200, 762-534                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2003 Corp.                 | PA-12, PA-12S                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ring         | MC153-00300    | 153-00300, 755-929, A39070              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Aerostar Aircraft Corporation | PA-60-600 (AEROSTAR 600), PA-60-601 (AEROSTAR 601), PA-60-601P (AEROSTAR 601P), PA-60-602P (AEROSTAR 602P)                                                                                                                                                                                                                                                                                                                                                                               |

# FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| Article Name | Article Number | Approved Replacement For Article Number           | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility               | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|----------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ring         | MC153-00300    | 153-00300, 755-929, A39070                        | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc                | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, PA-11, PA-11S, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150", PA-20, PA-20 "115", PA-20 "135", PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-24-250 s/n 24-3307 thru 24-3687, PA-24-400 s/n 24-130 thru 26-148, PA-28-236 s/n 28-8111001 thru 28-8611008, PA-28R-180 s/n 28R-30005 thru 28R-7130005, PA-28R-200 s/n 28R-35001 thru 28R-7135109, PA-30 s/n 30-846 thru 30-2000, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-200, PA-34-200T, PA-34-220T, PA-39, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP, PA-46-500TP, PA-46R-350T, PA-46R-350T                                                                                                                                                                                                                                                                                                |
| Ring         | MC153-00400    | 153-004, 153-00400, 153-4, 3022, 752-829, 755-999 | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc                | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, PA-11, PA-11S, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150", PA-20, PA-20 "115", PA-20 "135", PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-23, PA-23-160, PA-23-235, PA-23-250(Navy UO-1), PA-E23-250, PA-24-250 s/n 24-3307 thru 24-3687, PA-24-400 s/n 24-130 thru 26-148, PA-28-140 s/n 28-20521 thru 28-7725290, PA-28-150 s/n 28-1761 thru 28-4377, PA-28-151, PA-28-160 s/n 28-1761 thru 28-4377, PA-28-161, PA-28-180 s/n 28-1761 thru 28-7505260, PA-28-181, PA-28-201T, PA-28-235 s/n 28-10487 thru 28-7710089, PA-28-236, PA-28R-180 s/n 28R-30005 thru 28R-7130013, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-30 s/n 30-2 thru 30-2000, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-200, PA-34-200T, PA-34-220T, PA-39, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP, PA-46-500TP, PA-46R-350T, PA-46R-350T |
| Ring         | MC153-00400    | 153-004, 153-00400, 153-4, 3022, 752-829, 755-999 | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Lavia Argentina S.A.<br>(Laviassa) | PA-25-235 s/n 25-4172 thru 25-8156024, PA-25-260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

# FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| Article Name | Article Number | Approved Replacement For Article Number                | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility               | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|----------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ring         | MC153-00500    | 153-00500                                              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc                | PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-23, PA-23-160, PA-23-235, PA-23-250(Navy UO-1) s/n 27-1 thru 27-4822, PA-E23-250 s/n 27-2505 thru 27-4822, PA-24, PA-24-250, PA-24-260 s/n 24-4000 thru 24-5019, PA-24-260 s/n 24-5021 thru 24-5023, PA-24-400, PA-28-140 s/n 28-20002 thru 28-7725290, PA-28-150, PA-28-160, PA-28-180 s/n 28-671 28-7205243, PA-28-235 s/n 28-10003 thru 28-7210019, PA-30 s/n 30-2 thru 30-2000, PA-32-260 s/n 32-1 thru 31-7200029, PA-32-300 s/n 32-40000 thru 32-7240100, PA-34-200 s/n 34-7250001 thru 34-7250216, PA-39 s/n 39-1 thru 39-148                                                                                                                                                                                     |
| Ring         | MC153-00500    | 153-00500                                              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Lavia Argentina S.A.<br>(Laviassa) | PA-25, PA-25-235 s/n 25-2000 thru 25-4171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ring         | MC153-00800    | 153-00800, 153-30048, 153-8, 756-007, 762-560, A-30048 | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc                | PA-28-151, PA-28-161, PA-28-201T, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-32-301, PA-32-301T, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-220T s/n 34-8133001 thru 3448037, PA-38-112, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP, PA-46-500TP, PA-46R-350T, PA-46R-350T                                                                                                                                                                                                                                                                                                                                                                                                |
| Ring         | MC153-00900    | 153-00900, 153-9, 755-964                              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Aerostar Aircraft Corporation      | PA-60-600 (AEROSTAR 600), PA-60-601 (AEROSTAR 601), PA-60-601P (AEROSTAR 601P), PA-60-602P (AEROSTAR 602P)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Ring         | MC153-00900    | 153-00900, 153-9, 755-964                              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc                | PA-22, PA-23, PA-23-160, PA-23-250(Navy UO-1) s/n 27-4823 thru 27-8154030, PA-E23-250 s/n 27-4823 thru 27-7554168, PA-24-260 s/n 24-5020 thru 24-5034, PA-28-140 s/n 28-7225335 thru 28-7725290, PA-28-180 s/n 28-7205244 thru 28-7505260, PA-28-181, PA-28-235 s/n 28-7210020 thru 28-7710089, PA-28-236, PA-30 s/n 39-152 thru 30-2000, PA-31 s/n 31-5 thru 31-8312019, PA-31-300 s/n 31-5 thru 31-8312019, PA-31-325, PA-31-350, PA-31P, PA-31P-350, PA-31T, PA-31T2, PA-31T3, PA-32-260 s/n 32-7200030 thru 32-7800008, PA-32-300 s/n 32-7240101 thru 32-7940290, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-34-200 s/n 34-7250217 thru 34-7450220, PA-34-200T, PA-34-220T, PA-36-285, PA-36-300, PA-36-375, PA-38-112, PA-42, PA-42-1000, PA-42-720, PA-42-720R |

# FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| Article Name | Article Number | Approved Replacement For Article Number | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility          | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|----------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ring         | MC153-01500    | 153-01500, 153-15, 755-930              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc           | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, PA-11, PA-11S, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150", PA-20, PA-20 "115", PA-20 "135", PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-24-250 s/n 24-3307 thru 24-3687, PA-24-400 s/n 24-130 thru 26-148, PA-28-236 s/n 28-8111001 thru 28-8611008, PA-28R-180 s/n 28R-30005 thru 28R-7130005, PA-28R-200 s/n 28R-35001 thru 28R-7135109, PA-30 s/n 30-846 thru 30-2000, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-200, PA-34-200T, PA-34-220T, PA-39, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP, PA-46-500TP, PA-46R-350T, PA-46R-350T |
| Ring         | MC153-01500    | 153-01500, 153-15, 755-930              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Aerostar Aircraft Corporation | PA-60-600 (AEROSTAR 600), PA-60-601 (AEROSTAR 601), PA-60-601P (AEROSTAR 601P), PA-60-602P (AEROSTAR 602P)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Ring         | MC153-01600    | 153-01600, 153-16, 755-963              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc           | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, PA-11, PA-11S, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150", PA-20, PA-20 "115", PA-20 "135", PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-24-250 s/n 24-3307 thru 24-3687, PA-28R-180 s/n 28R-30005 thru 28R-7130005, PA-28R-200 s/n 28R-35001 thru 28R-7135109, PA-31, PA-31-300, PA-31-325, PA-31-350, PA-31P-350                                                                                                                                                                                                                                                                                                                                                                                             |
| Ring         | MC153-01900    | 153-01900, 153-19, 763-703              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc           | PA-31-350, PA-31P, PA-31P-350, PA-31T, PA-31T1, PA-31T2, PA-31T3, PA-42, PA-42-720, PA-42-720R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Ring         | MC153-30014    | 153-30014, 762-558, A-30014             | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc           | PA-28-140 s/n 28-20002 thru 28-7725290, PA-28-150, PA-28-160, PA-28-180, PA-28-181, PA-28-235 s/n 28-10003 thru 28-7710089, PA-28-236, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-34-200, PA-34-200T, PA-34-220T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

# FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| Article Name | Article Number | Approved Replacement For Article Number | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility            | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------|----------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ring         | MC153-30015    | 153-30015, 762-559, A-30015             | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc             | PA-28-140 s/n 28-20002 thru 28-7725290, PA-28-150, PA-28-160, PA-28-180, PA-28-181, PA-28-235 s/n 28-10003 thru 28-7710089, PA-28-236, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-34-200, PA-34-200T, PA-34-220T                                                                                                                                                                                                                                         |
| Felt         | MC154-00200    | 154-00200, 754-849                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc             | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, J4, J4A, J4A-S, J4B, J4E (ARMY L-4E), J4F, PA-11, PA-11S, PA-15, PA-16, PA-16S, PA-17, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150" s/n 18-3781 thru 18-8309025, PA-20, PA-20 "115", PA-20 "135" |
| Felt         | MC154-00200    | 154-00200, 754-849                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2001 Corp.                   | AE-1, HE-1, J5A (Army L-4F), J5A-80, J5B (Army L-4G), J5C                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Felt         | MC154-00200    | 154-00200, 754-849                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2002 Corp.                   | PA-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Felt         | MC154-00200    | 154-00200, 754-849                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2003 Corp.                   | PA-12, PA-12S                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Felt         | MC154-00300    | 154-00300, 154-3, 3021, 751-772         | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Lavia Argentina S.A. (Laviassa) | PA-25-235 s/n 25-4172 thru 25-8156024, PA-25-260                                                                                                                                                                                                                                                                                                                                                                                                                                         |

# FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| Article Name | Article Number | Approved Replacement For Article Number | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility              | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|----------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Felt         | MC154-00300    | 154-00300, 154-3, 3021, 751-772         | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc               | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, PA-11, PA-11S, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150", PA-20, PA-20 "115", PA-20 "135", PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-23, PA-23-160, PA-23-235, PA-23-250(Navy UO-1), PA-E23-250, PA-24-250 s/n 24-3307 thru 24-3687, PA-24-400 s/n 24-130 thru 26-148, PA-28-140 s/n 28-20521 thru 28-7725290, PA-28-150 s/n 28-1761 thru 28-4377, PA-28-151, PA-28-160 s/n 28-1761 thru 28-4377, PA-28-161, PA-28-180 s/n 28-1761 thru 28-7505260, PA-28-181, PA-28-201T, PA-28-235 s/n 28-10487 thru 28-7710089, PA-28-236, PA-28R-180 s/n 28R-30005 thru 28R-7130013, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-30 s/n 30-2 thru 30-2000, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-200, PA-34-200T, PA-34-220T, PA-39, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP, PA-46-500TP, PA-46R-350T, PA-46R-350T |
| Felt         | MC154-00400    | 154-00400                               | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc               | PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-23, PA-23-160, PA-23-235, PA-23-250(Navy UO-1) s/n 27-1 thru 27-4822, PA-E23-250 s/n 27-2505 thru 27-4822, PA-24, PA-24-250, PA-24-260 s/n 24-4000 thru 24-5019, PA-24-260 s/n 24-5021 thru 24-5023, PA-24-400, PA-28-140 s/n 28-20002 thru 28-7725290, PA-28-150, PA-28-160, PA-28-180 s/n 28-671 28-7205243, PA-28-235 s/n 28-10003 thru 28-7210019, PA-30 s/n 30-2 thru 30-2000, PA-32-260 s/n 32-1 thru 31-7200029, PA-32-300 s/n 32-40000 thru 32-7240100, PA-34-200 s/n 34-7250001 thru 34-7250216, PA-39 s/n 39-1 thru 39-148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Felt         | MC154-00400    | 154-00400                               | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Lavia Argentina S.A.<br>(Laviasa) | PA-25, PA-25-235 s/n 25-2000 thru 25-4171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

# FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| Article Name | Article Number | Approved Replacement For Article Number     | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility          | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|----------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Felt         | MC154-00500    | 154-00500                                   | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc           | PA-22, PA-22-108, PA-23, PA-23-160, PA-23-235, PA-23-250(Navy UO-1) s/n 27-1 thru 27-4822, PA-E23-250 s/n 27-2505 thru 27-4822, PA-24, PA-24-250 s/n 24-1 thru 24-3306, PA-24-260 s/n 24-4000 thru 24-5019, PA-24-260 s/n 24-5021 thru 24-5023, PA-24-400, PA-28-140 s/n 28-20002 thru 28-7725290, PA-28-150, PA-28-160, PA-28-180 s/n 28-671 thru 28-7205243, PA-28-235 s/n 28-10003 thru 28-7210019, PA-30 s/n 30-2 thru 30-2000, PA-32-260 s/n 32-1 thru 31-7200029, PA-32-300 s/n 32-40000 thru 32-7240100, PA-34-200 s/n 34-7250001 thru 34-7250216, PA-39 s/n 39-1 thru 39-148                                                                                                                                                                                                                                                                                                                                                                                                    |
| Felt         | MC154-00600    | 154-00600, 154-6, 754-804, 754-856, A-30047 | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc           | PA-28-151, PA-28-161, PA-28-201T, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-32-301, PA-32-301T, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-220T s/n 34-8133001 thru 3448037, PA-38-112, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP, PA-46-500TP, PA-46R-350T, PA-46R-350T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Felt         | MC154-01300    | 154-01300, 154-13, 751-810                  | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc           | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, PA-11, PA-11S, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150", PA-20, PA-20 "115", PA-20 "135", PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-24-250 s/n 24-3307 thru 24-3687, PA-24-400 s/n 24-130 thru 26-148, PA-28-236 s/n 28-8111001 thru 28-8611008, PA-28R-180 s/n 28R-30005 thru 28R-7130005, PA-28R-200 s/n 28R-35001 thru 28R-7135109, PA-30 s/n 30-846 thru 30-2000, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-200, PA-34-200T, PA-34-220T, PA-39, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP, PA-46-500TP, PA-46R-350T, PA-46R-350T |
| Felt         | MC154-01300    | 154-01300, 154-13, 751-810                  | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Aerostar Aircraft Corporation | PA-60-600 (AEROSTAR 600), PA-60-601 (AEROSTAR 601), PA-60-601P (AEROSTAR 601P), PA-60-602P (AEROSTAR 602P)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Felt         | MC154-01400    | 154-01400, 154-14, 751-819                  | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Aerostar Aircraft Corporation | PA-60-600 (AEROSTAR 600), PA-60-601 (AEROSTAR 601), PA-60-601P (AEROSTAR 601P), PA-60-602P (AEROSTAR 602P)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

# FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| Article Name | Article Number | Approved Replacement For Article Number | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|----------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Felt         | MC154-01400    | 154-01400, 154-14, 751-819              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | PA-22, PA-23, PA-23-160, PA-23-250(Navy UO-1) s/n 27-4823 thru 27-8154030, PA-E23-250 s/n 27-4823 thru 27-7554168, PA-24-260 s/n 24-5020 thru 24-5034, PA-28-140 s/n 28-7225335 thru 28-7725290, PA-28-180 s/n 28-7205244 thru 28-7505260, PA-28-181, PA-28-235 s/n 28-7210020 thru 28-7710089, PA-28-236, PA-30 s/n 39-152 thru 30-2000, PA-31 s/n 31-5 thru 31-8312019, PA-31-300 s/n 31-5 thru 31-8312019, PA-31-325, PA-31-350, PA-31P, PA-31P-350, PA-31T, PA-31T2, PA-31T3, PA-32-260 s/n 32-7200030 thru 32-7800008, PA-32-300 s/n 32-7240101 thru 32-7940290, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-34-200 s/n 34-7250217 thru 34-7450220, PA-34-200T, PA-34-220T, PA-36-285, PA-36-300, PA-36-375, PA-38-112, PA-42, PA-42-1000, PA-42-720, PA-42-720R |
| Felt         | MC154-01600    | 154-01600, 154-16, 751-818              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, PA-11, PA-11S, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150", PA-20, PA-20 "115", PA-20 "135", PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-24-250 s/n 24-3307 thru 24-3687, PA-28R-180 s/n 28R-30005 thru 28R-7130005, PA-28R-200 s/n 28R-35001 thru 28R-7135109, PA-31, PA-31-300, PA-31-325, PA-31-350, PA-31P-350                                                                                                                                                                                    |
| Felt         | MC154-02600    | 154-02600, 154-26, 762-325              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | PA-31-350, PA-31P, PA-31P-350, PA-31T, PA-31T1, PA-31T2, PA-31T3, PA-42, PA-42-720, PA-42-720R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Felt         | MC154-02800    | 154-02800, 754-850                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, J4, J4A, J4A-S, J4B, J4E (ARMY L-4E), J4F, PA-11, PA-11S, PA-15, PA-16, PA-16S, PA-17, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150" s/n 18-3781 thru 18-8309025, PA-20, PA-20 "115", PA-20 "135"                                                                                                                                                                                                                                                                                       |
| Felt         | MC154-02800    | 154-02800, 754-850                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2001 Corp.        | AE-1, HE-1, J5A (Army L-4F), J5A-80, J5B (Army L-4G), J5C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



# FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| Article Name   | Article Number | Approved Replacement For Article Number | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|----------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Felt           | MC154-02800    | 154-02800, 754-850                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2002 Corp.        | PA-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Felt           | MC154-02800    | 154-02800, 754-850                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2003 Corp.        | PA-12, PA-12S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Felt           | MC154-30010    | 154-30010, 754-855, A-30010             | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | PA-28-140 s/n 28-20002 thru 28-7725290, PA-28-150, PA-28-160, PA-28-180, PA-28-181, PA-28-235 s/n 28-10003 thru 28-7710089, PA-28-236, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-34-200, PA-34-200T, PA-34-220T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Retaining Ring | MC155-00100    | 155-00100, 155-1, 3023, 752-830         | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, PA-11, PA-11S, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150", PA-20, PA-20 "115", PA-20 "135", PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-23, PA-23-160, PA-23-235, PA-23-250(Navy UO-1), PA-E23-250, PA-24-250 s/n 24-3307 thru 24-3687, PA-24-260 s/n 24-5020 thru 24-5034, PA-24-400 s/n 24-130 thru 26-148, PA-28-140 s/n 28-20521 thru 28-7725290, PA-28-150 s/n 28-1761 thru 28-4377, PA-28-151, PA-28-160 s/n 28-1761 thru 28-4377, PA-28-161, PA-28-180 s/n 28-1761 thru 28-7505260, PA-28-181, PA-28-201T, PA-28-235 s/n 28-10487 thru 28-7710089, PA-28-236, PA-28R-180 s/n 28R-30005 thru 28R-7130013, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-30 s/n 30-2 thru 30-2000, PA-31, PA-31-300, PA-31-325, PA-31-350, PA-31P, PA-31P-350, PA-31T, PA-31T2, PA-31T3, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-200, PA-34-200T, PA-34-220T, PA-36-285, PA-36-300, PA-36-375, PA-38-112, PA-39, PA-42, PA-42-1000, PA-42-720, PA-42-720R, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP, PA-46-500TP, PA-46R-350T, PA-46R-350T |

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| <b>Article Name</b> | <b>Article Number</b> | <b>Approved Replacement For Article Number</b> | <b>Approval Basis and Approved Design Data</b>                                                                                                  | <b>Make/TCH Eligibility</b>     | <b>Model/Series Eligibility</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Retaining Ring      | MC155-00100           | 155-00100, 155-1, 3023, 752-830                | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Aerostar Aircraft Corporation   | PA-60-600 (AEROSTAR 600), PA-60-601 (AEROSTAR 601), PA-60-601P (AEROSTAR 601P), PA-60-602P (AEROSTAR 602P)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Retaining Ring      | MC155-00100           | 155-00100, 155-1, 3023, 752-830                | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Lavia Argentina S.A. (Laviassa) | PA-25-235 s/n 25-4172 thru 25-8156024, PA-25-260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Retaining Ring      | MC155-00200           | 155-00200, 155-2, 756-008                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc             | J-3, TG-8 (Army TG-8, Navy XLNP-1), J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S, J3F-50, J3F-50S, J3F-60, J3F-60S, (Army L-4D) J3F-65, J3F-65S, J3L, J3L-65 (ARMY L-4C), J3L-65S, J3L-S, J3P, J4, J4A, J4A-S, J4B, J4E (ARMY L-4E), J4F, PA-11, PA-11S, PA-15, PA-16, PA-16S, PA-17, PA-18, PA-18S, PA-18 "105" (Special), PA-18 "125" (Army L-21A), PA-18 "135" (Army L-21B), PA-18 "150", PA-18A, PA-18A "135", PA-18A "150" s/n 18-3781 thru 18-8309025, PA-20, PA-20 "115", PA-20 "135", PA-28-151, PA-28-161, PA-28-201T, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-32-301, PA-32-301T, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-34-220T s/n 34-8133001 thru 3448037, PA-38-112, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46-500TP, PA-46-500TP, PA-46R-350T, PA-46R-350T |
| Retaining Ring      | MC155-00200           | 155-00200, 155-2, 756-008                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2001 Corp.                   | AE-1, HE-1, J5A (Army L-4F), J5A-80, J5B (Army L-4G), J5C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Retaining Ring      | MC155-00200           | 155-00200, 155-2, 756-008                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2002 Corp.                   | PA-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Retaining Ring      | MC155-00200           | 155-00200, 155-2, 756-008                      | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | FS 2003 Corp.                   | PA-12, PA-12S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

# FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA No.: PQ3732CE  
Supplement No.: 174  
Date: September 9, 2021

| Article Name   | Article Number | Approved Replacement For Article Number | Approval Basis and Approved Design Data                                                                                                         | Make/TCH Eligibility | Model/Series Eligibility                                                                                                                                                                                                                                                                                                                     |
|----------------|----------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Retaining Ring | MC155-00300    | 155-00300                               | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | PA-23, PA-23-160, PA-23-235, PA-23-250(Navy UO-1), PA-E23-250                                                                                                                                                                                                                                                                                |
| Retaining Ring | MC155-04400    | 155-04400, 155-44, 762-614              | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | PA-31-350, PA-31P, PA-31P-350, PA-31T, PA-31T1, PA-31T2, PA-31T3, PA-42, PA-42-1000, PA-42-720, PA-42-720R                                                                                                                                                                                                                                   |
| Retaining Ring | MC155-11800    | 155-11800, 762-561, A-1636-23           | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | PA-28-151, PA-28-161, PA-28-201T, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-32-301, PA-32-301T, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-38-112 s/n 38-78A0001 thru 38-80A0198, PA-44-180, PA-44-180T, PA-46-310P, PA-46-350P, PA-46R-350T, PA-46R-350T |
| Retaining Ring | MC155-11900    | 155-11900, 762-562, A-1636-24           | Test and Computations per 14 CFR § 21.303<br><u>DWG No:</u> 6543<br><u>Rev:</u> J<br><u>Date:</u> 11/11/2020 or later<br>FAA-approved revisions | Piper Aircraft, Inc  | PA-28-140 s/n 28-20002 thru 28-7725290, PA-28-150, PA-28-160, PA-28-180, PA-28-181, PA-28-235 s/n 28-10003 thru 28-7710089, PA-28-236, PA-32-260, PA-32-300, PA-32-301, PA-32-301FT, PA-32-301T, PA-32-301XTC, PA-34-200, PA-34-200T, PA-34-220T                                                                                             |

-----END OF DATA-----

## 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 supplemental ICA for differences in the replacement articles. Make referral statements or supplemental ICA readily available per 14 CFR 21.50.

**BRANDE N ALI-TURNER**  
Digitally signed by  
BRANDE N ALI-TURNER  
Date: 2021.09.09  
11:15:02 -05'00'

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

**JANICE M HAWLEY**  
Digitally signed by  
JANICE M HAWLEY  
Date: 2021.09.13  
15:24:57 -05'00'

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