

## Brake Bleeder Valves for Cleveland and McCauley Wheels

Improved - No more rust, no more rounded wrench flats

Save \$\$\$

### Bleeder Screws

- Strong heat treated 17-4 stainless steel prevents corrosion and rounding of the hex
- Increased hex size further resists rounding of the wrench hex

### Bleeder Seats

- Stainless steel for corrosion resistance
- Type III class 3 cadmium plating sure is ugly, but it's the best protection against galvanic corrosion with the magnesium housing.

### Even the Rubber Cap is Improved!

- Improved material prevents cracking
- Shorter design results in a more secure fit

### Convenient Kits

- Two kits required per aircraft
- Components also available separately



| MCBB-KT-1 |             |               |
|-----------|-------------|---------------|
| Qty       | Part Number | Description   |
| 1         | MC081-00100 | Bleeder Seat  |
| 1         | MC079-00300 | Bleeder Screw |
| 1         | MC183-00100 | Needle Cap    |

| MCBB-KT-2 |             |               |
|-----------|-------------|---------------|
| Qty       | Part Number | Description   |
| 1         | MC081-00200 | Bleeder Seat  |
| 1         | MC079-00300 | Bleeder Screw |
| 1         | MC183-00100 | Needle Cap    |
| 1         | MS28775-012 | O-ring        |

| MCBB-KT-3 |             |               |
|-----------|-------------|---------------|
| Qty       | Part Number | Description   |
| 1         | MC081-00500 | Bleeder Seat  |
| 1         | MC079-00300 | Bleeder Screw |
| 1         | MC183-00100 | Needle Cap    |
| 1         | MS28775-011 | O-ring        |

| MCBB-KT-4 |             |               |
|-----------|-------------|---------------|
| Qty       | Part Number | Description   |
| 1         | MC081-00600 | Bleeder Seat  |
| 1         | MC079-00300 | Bleeder Screw |
| 1         | MC183-00100 | Needle Cap    |
| 1         | NAS1612-4A  | O-ring        |

| MCBB-KT-5 |             |               |
|-----------|-------------|---------------|
| Qty       | Part Number | Description   |
| 1         | MC081-30169 | Bleeder Seat  |
| 1         | MC079-00300 | Bleeder Screw |
| 1         | MC183-00100 | Needle Cap    |
| 1         | MS28775-011 | O-ring        |

### FAA-PMA Direct Replacements

Currently approved for most Cessna

| Description   | McFarlane P/N | Cleveland P/N | Cessna P/N | McCauley P/N |
|---------------|---------------|---------------|------------|--------------|
| Bleeder Seat  | MC081-00100   | 081-00100     | 37-206     | A30030       |
| Bleeder Screw | MC079-00300   | 079-00300     | FC6446     | A30085       |
| Bleeder Seat  | MC081-30169   | 081-30169     |            | A30169       |
| Needle Cap    | MC183-00100   | 183-00100     |            | A30040       |
| Needle Cap    | MC183-00100   | 183-1         |            | A30040       |
| Needle Cap    | MC183-00100   | 183-0100      |            | A30040       |

| Aircraft                        | Serial Number            | When equipped with brake number or Cleveland conversion kit:  | Part Number |
|---------------------------------|--------------------------|---|-------------|
| 120, 140, 140A                  | All                      | Only for use with Cleveland conversion kit 199-46   | MCBB-KT-1   |
| 150A,B,C,D,E,F,G,H,J,K,L,M      | All                      |   | MCBB-KT-1   |
| A150K,L,M                       | All                      |   | MCBB-KT-1   |
| F150F,G,H,J,K,L,M               | All                      |   | MCBB-KT-1   |
| FA150K,L,M                      | All                      |   | MCBB-KT-1   |
| 152                             | 15279406 thru 15285161   | C163032-0110 or C163030-0113 (30-75)  | MCBB-KT-1   |
|                                 | 15285162 thru 15286033   | C163033-0101 (C30018)   | MCBB-KT-5   |
| A152                            | All                      | C163032-0110 or C163030-0113 (30-75)  | MCBB-KT-1   |
|                                 | A1520984 thru A1521049   | C163033-0101 (C30018)   | MCBB-KT-5   |
| F152, FA152                     | All                      |   | MCBB-KT-1   |
| 170, 170A,B                     | All                      | Only for use with Cleveland conversion kit 199-46, 199-62, or 199-62A   | MCBB-KT-1   |
| 172, 172A,B,C,D,E               | All                      | Only for use with Cleveland conversion kit 199-46, 199-62, or 199-62A   | MCBB-KT-1   |
| 172F,G,H,I,K,L,M,N              | All                      |   | MCBB-KT-1   |
| 172P                            | 17274010 thru 17275034   | C163030-0111 (30-75A), C163032-0105, C163032-0113 (C30018-6) or equipped with Cleveland conversion kit 199-62, or 199-62A | MCBB-KT-1   |
|                                 | 17275035 thru 17275868   | C163033-0102 (C30764-6)   | MCBB-KT-5   |
| 172Q                            | All                      | Only for use with Cleveland conversion kit 199-62, or 199-62A   | MCBB-KT-1   |
| 172R,S                          | All                      |   | MCBB-KT-5   |
| 172RG                           | 172RG0001 thru 172RG0890 |   | MCBB-KT-1   |
|                                 | 172RG0891 thru 172RG1191 |   | MCBB-KT-5   |
| F172D,E,F,G,H,K,L,M,N,P         | All                      |   | MCBB-KT-1   |
| FR172E,F,G,H,J,K, R172E,F,G,H,K | All                      |   | MCBB-KT-1   |
| P172D                           | All                      | Only for use with Cleveland conversion kit 199-46   | MCBB-KT-1   |
| 175, 175A,B,C                   | All                      | Only for use with Cleveland conversion kit 199-46, 199-62, or 199-62A   | MCBB-KT-1   |
| 177, 177A,B, 177RG, F177RG      | All                      |   | MCBB-KT-1   |
| 180                             | All                      | Only for use with Cleveland conversion kit 199-46, 199-60, 199-62 or 199-62A  | MCBB-KT-1   |
| 180A,B,C,D,E,F                  | All                      | Only for use with Cleveland conversion kit 199-46, 199-60, or 199-62  | MCBB-KT-1   |
| 180G,H                          | All                      |   | MCBB-KT-1   |

Continued on next page

## Brake and Wheel Parts



MCBB-KT-1



MCBB-KT-2



MCBB-KT-3



MCBB-KT-4



MCBB-KT-5

Brake and Wheel Parts

| Continued from previous page          |                          |   |             |
|---------------------------------------|--------------------------|---|-------------|
| Aircraft                              | Begin Serial             | When equipped with brake number or Cleveland conversion kit:  | Part Number |
| 180J                                  | 18052285 thru 18052384   | 1241157-1, C163030-0303 (30-52), C163030-0305 (30-52D), or C163030-0113 (30-75) or equipped with Cleveland conversion kit 199-60                | MCBB-KT-1   |
|                                       | 18052385 thru 18052770   | C163030-0303 (30-52) or C163030-0113 (30-75) or equipped with Cleveland conversion kit 199-62   | MCBB-KT-1   |
|                                       | All                      | C163032-0205 (30-52U), C163032-0206 (D30118-4), C163032-0207 (D30118-5), or C163032-0208 (D30118-6)   | MCBB-KT-5   |
| 180K                                  | All                      | C163030-0303 (30-52) or C163030-0113 (30-75) or equipped with Cleveland conversion kit 199-62   | MCBB-KT-1   |
|                                       | All                      | C163032-0205 (30-52U), C163032-0206 (D30118-4), C163032-0207 (D30118-5), or C163032-0208 (D30118-6)   | MCBB-KT-5   |
| 182                                   | All                      | Only for use with Cleveland conversion kit 199-46   | MCBB-KT-1   |
| 182A,B,C,D,E,F,G                      | All                      | Only for use with Cleveland conversion kit 199-46, 199-62, or 199-62A   | MCBB-KT-1   |
| 182H,J,K,L,M,N,P,Q                    | All                      |   | MCBB-KT-1   |
| 182R                                  | All                      |   | MCBB-KT-5   |
| 182S                                  | All                      | Only for use with Cleveland conversion kit 199-62, or 199-62A   | MCBB-KT-1   |
| 182T, T182T                           | All                      |   | MCBB-KT-3   |
| A182J,K,L,N                           | All                      |   | MCBB-KT-3   |
| F182P,Q                               | All                      |   | MCBB-KT-1   |
| FR182                                 | All                      |   | MCBB-KT-5   |
| R182, T182, TR182                     | All                      |   | MCBB-KT-5   |
| 185, 185A,B,C,D,E, A185E              | All                      |   | MCBB-KT-1   |
| A185F                                 | 18502091 thru 18502300   | C163032-0205 (30-52U), C163032-0206 (D30118-4), C163032-0207 (D30118-5), or C163032-0208 (D30118-6)   | MCBB-KT-5   |
|                                       | 18502091 thru 18502310   | 1241157-1, C163030-0303 (30-52), C163030-0305 (30-52D), or C163030-0113 (30-75) or when equipped with Cleveland conversion kit 199-60 or 199-62 | MCBB-KT-1   |
|                                       | 18502311 thru 18504448   | C163030-0303 (30-52) or C163030-0113 (30-75)  | MCBB-KT-1   |
| 188, 188A,B, A188, A188A,B, A188B     | 18800001 thru 18802348   | C163030-0301 (30-52B) or C163030-0302 (30-52B)  | MCBB-KT-1   |
| 188, 188A,B, A188, A188A,B            | 18800001 thru 18802348   | 30-67A, C163030-0601 (30-67C), C163030-0503 (30-66A), or C163030-504 (30-66A)   | MCBB-KT-2   |
| A188B                                 | 18802349 thru 18803973   |   | MCBB-KT-2   |
| A188B (w/large hopper)                | 18800833T thru 18802348T | C163030-0301 (30-52B) or C163030-0302 (30-52B)  | MCBB-KT-1   |
|                                       | 18800833T thru 18802348T | 30-67A, C163030-0601 (30-67C), C163030-0503 (30-66A), or C163030-504 (30-66A)   | MCBB-KT-2   |
|                                       | 18802349T thru 18803973T |   | MCBB-KT-2   |
| T188C                                 | All                      |   | MCBB-KT-2   |
| 190, 195, 195A,B                      | All                      | Only for use with Cleveland conversion kit 199-61   | MCBB-KT-2   |
| 210-5 (205), 210-5A (205A)            | All                      |   | MCBB-KT-1   |
| 206, 206H                             | All                      |   | MCBB-KT-1   |
| P206, P206A,B,C,D,E                   | All                      |   | MCBB-KT-1   |
| T206H                                 | All                      |   | MCBB-KT-1   |
| TP206A,B,C,D,E, TU206A,B,C,D,E        | All                      |   | MCBB-KT-1   |
| TU206F, U206F                         | U20601701 thru U20602199 |   | MCBB-KT-1   |
| TU206F,G, U206F,G                     | U20602200 thru U20607020 | C163030-0303 (30-52) or C163030-0313 (30-52N) or when equipped with Cleveland conversion kit 199-62   | MCBB-KT-1   |
|                                       | All                      | C163032-0205 (30-52U), C163032-0206 (D30118-4), C163032-0207 (D30118-5), or C163032-0208 (D30118-6)   | MCBB-KT-5   |
| U206, U206A,B,C,D,E                   | All                      |   | MCBB-KT-1   |
| 207, 207A, T207, T207A                | All                      |   | MCBB-KT-1   |
| 208, 208A,B                           | All                      |   | MCBB-KT-3   |
| 210, 210A,B                           | All                      | Only for use with Cleveland conversion kit 199-60   | MCBB-KT-1   |
| 210C,D,E,F,G,H,J,K                    | All                      |   | MCBB-KT-1   |
| 210L,M                                | All                      | C163030-0303 (30-52) or when equipped with Cleveland conversion kit 199-60  | MCBB-KT-1   |
|                                       | 21060090 thru 21062954   | C163032-205 (30-52U) or C163032-206 (D30118-4)  | MCBB-KT-5   |
| 210N                                  | 21062955 thru 21063114   | 121494-3 or 121494-4  | MCBB-KT-2   |
|                                       | 21063115 thru 21064135   | C163030-0315 (30-52V), C163030-0316 (30-52V), 30-05220, or 30-05270   | MCBB-KT-3   |
|                                       | 21064136 thru 21065009   |   | MCBB-KT-3   |
|                                       | All                      | C163032-209 or C163032-210  | MCBB-KT-5   |
| 210R, T210R                           | All                      |   | MCBB-KT-3   |
|                                       | P21000001 thru P21000150 | C163032-205 (30-52U) or C163032-206 (D30118-4)  | MCBB-KT-5   |
|                                       | P21000151 thru P21000191 | 121494-3 or 121494-4  | MCBB-KT-2   |
| P210N                                 | All                      | Only for use with Cleveland conversion kit 199-60   | MCBB-KT-1   |
|                                       | All                      | C163030-0315 (30-52V) or C163030-0316 (30-52V) or when equipped with Cleveland conversion kit 199-60A   | MCBB-KT-3   |
| P210R                                 | All                      | C163030-0901 (30-127) or C163030-0902 (30-127)  | MCBB-KT-3   |
| T210F,G,H,J,K                         | All                      |   | MCBB-KT-1   |
| T210L,M                               | All                      | C163030-0303 (30-52) or when equipped with Cleveland conversion kit 199-60  | MCBB-KT-1   |
|                                       | 21060090 thru 21062954   | C163032-205 (30-52U) or C163032-206 (D30118-4)  | MCBB-KT-5   |
| T210N                                 | 21062955 thru 21063114   | 121494-3 or 121494-4  | MCBB-KT-2   |
|                                       | 21063115 thru 21064135   | C163030-0315 (30-52V), C163030-0316 (30-52V), 30-05220, or 30-05270   | MCBB-KT-3   |
|                                       | 21064136 thru 21065009   |   | MCBB-KT-3   |
|                                       | All                      | C163032-209 or C163032-210  | MCBB-KT-5   |
| 310, 310B,C,D,F,G,H,I,J,J-1,K,L,N,P,Q | All                      | Only for use with Cleveland conversion kit 199-64   | MCBB-KT-2   |
| E310H,J                               | All                      | Only for use with Cleveland conversion kit 199-64   | MCBB-KT-2   |
| T310P,Q                               | All                      | Only for use with Cleveland conversion kit 199-64   | MCBB-KT-2   |
| 320, 320-1, 320A,B,C,D,E,F            | All                      | Only for use with Cleveland conversion kit 199-64   | MCBB-KT-2   |
| 336                                   | All                      |   | MCBB-KT-1   |
| 337E,F, F337E,F, FT337E,F, T337E,F    | All                      |   | MCBB-KT-1   |
| 310R, T310R                           | All                      |   | MCBB-KT-2   |
| 335                                   | All                      |   | MCBB-KT-2   |
| 340, 340A                             | All                      |   | MCBB-KT-2   |
| 401, 401A,B                           | All                      | Only for use with Cleveland conversion kit 199-72 or 199-76   | MCBB-KT-2   |
| 402, 402A,B                           | All                      | Only for use with Cleveland conversion kit 199-72 or 199-76   | MCBB-KT-2   |
| 402C                                  | All                      |   | MCBB-KT-2   |
| 404                                   | All                      | Only for use with Cleveland conversion kit 199-78   | MCBB-KT-2   |
| 411, 411A                             | All                      |   | MCBB-KT-2   |
| 414, 414A                             | All                      |   | MCBB-KT-2   |
| 421                                   | All                      | Only for use with Cleveland conversion kit 199-76   | MCBB-KT-2   |
| 421C                                  | All                      |   | MCBB-KT-2   |
| 441                                   | All                      | Only for use with Cleveland conversion kit 199-115  | MCBB-KT-2   |
| 500, 501                              | All                      | 91891-003 (030-18902 formerly 30-189B) or when equipped with Cleveland conversion kit 199-60  | MCBB-KT-4   |
| 550, 551                              | All                      | 030-18902 formerly 30-189B or when equipped with Cleveland conversion kit 199-60  | MCBB-KT-4   |
| S550                                  | All                      | Only for use with Cleveland conversion kit 199-177  | MCBB-KT-4   |

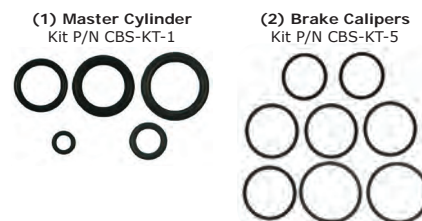
## Brake Assembly and Master Cylinder Seal Kits for Cessna Aircraft

Save time and \$\$\$! Kits contain the parts you need for a wide range of Cessna aircraft.

McFarlane has done the research so you don't have to. Now buy one kit per brake assembly or master cylinder and get the right seals for the job without wasting money on expensive parts you don't need.

All parts are standard industry spec hardware with full traceability or Cessna original parts with 8130-3 tags.

- Expanded eligibility (188 thru 210, 337 and Caravan models)
- McFarlane original kit
- One kit per two brake calipers or one master cylinder
- Approved parts



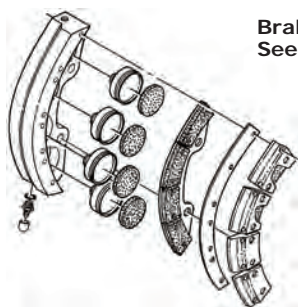
Note: Master cylinder kit does not include Lock-o-Seal.

| Aircraft Model                                   | Serial Number              | Master Cylinder Seal Kits |          |          |          | Brake Caliper Seal Kits |          |
|--|----------------------------|---------------------------|----------|----------|----------|-------------------------|----------|
|  |                            | CBS-KT-1                  | CBS-KT-2 | CBS-KT-3 | CBS-KT-4 | CBS-KT-5                | CBS-KT-6 |
| 120, 140   | All                        |                           |          |          |          |                         |          |
| 150, 150A,B,C,D,E,F,G,H,J,K,L,M                  | All                        | •                         |          |          |          |                         |          |
| F150F,G,H,J,K,L,M, FA150K,L,M, FRA150L,M         | All                        | •                         |          |          |          |                         |          |
| A-150L, A-A150L, A150K,L,M                       | All                        | •                         |          |          |          |                         |          |
| 152, A152, F152,FA152                            | All                        | •                         |          |          |          |                         |          |
| 170, 170A  | All                        |                           |          |          | •        |                         |          |
| 170B   | All                        | •                         |          |          |          |                         |          |
| 172, 172A,B,C,D,E,F,G,H,I,K,L,M,N                | 28000 thru 17271034        | •                         |          |          |          |                         |          |
| 172N,P,Q   | 17271035 and On            |                           | •        |          |          |                         |          |
| F172D,E,F,G,H,K,L,M,N                            | F172-0001 thru F17201749   | •                         |          |          |          |                         |          |
| F172N,P  | F17201750 thru F17202254   |                           | •        |          |          |                         |          |
| R172K  | R1722000 thru R1722929     | •                         |          |          |          |                         |          |
| FR172E,F,G,H,J                                   | R1722930 thru R1723454     |                           | •        |          |          |                         |          |
| FR172K   | FR17200591 thru FR17200630 | •                         |          |          |          |                         |          |
| R172E,F,G,H                                      | FR17200631 thru FR17200675 |                           | •        |          |          |                         |          |
| 175, 175A,B,C                                    | All                        | •                         |          |          |          |                         |          |
| 177, 177A,B                                      | All                        | •                         |          |          |          |                         |          |
| 177RG  | All                        | •                         | 2        | 3        |          |                         |          |
| 180, 180A,B,C,D,E,F,G,H,J,K                      | 30000 thru 18053000        | •                         |          |          |          |                         |          |
| 180K   | 18053001 and On            | •                         |          |          |          |                         |          |
| 182, 182A,B,C,D,E,F,G,H,I,K,L,M,N,P,Q            | 33000 thru 18266590        | •                         |          |          |          |                         |          |
| 182Q,R,S,T                                       | 18266591 and On            |                           | •        |          |          |                         |          |
| F182P,Q  | F18200001 thru F18200094   | •                         |          |          |          |                         |          |
| F182Q  | F18200095 and On           |                           | •        |          |          |                         |          |
| FR182  | FR18200001 thru FR18200020 | •                         |          |          |          |                         |          |
| T182, T182T, TR182                               | FR18200021 thru FR18000070 |                           | •        |          |          |                         |          |
| 185, 185A,B,C,D,E, A185E,F                       | All                        | •                         |          |          |          |                         |          |
| A185F  | 185-0001 thru 18503683     | •                         |          |          |          |                         |          |
| 188, 188A,B, A188, A188A,B                       | 18503684 and On            | •                         |          |          |          |                         |          |
| A188B  | 188-0001 thru 18803296     | •                         |          |          |          |                         |          |
| A188B (w/ large hopper)                          | 18803297 and On            |                           | •        |          |          |                         |          |
| 206, U206, U206A,B,C,D,E,F,G, TU206A,B,C,D,E,F,G | 18800833T thru 18803296T   | •                         |          |          |          |                         |          |
| P206, P206A,B,C,D,E, TP206A,B,C,D,E              | 18803297T and On           |                           | •        |          |          |                         |          |
| 206H, T2006H                                     | All                        | •                         |          |          |          |                         |          |
| 208, 208B  | All                        |                           | •        |          |          |                         |          |
| 210, 210A,B                                      | All                        | •                         |          |          |          |                         |          |
| 210C,D,E,F,G,H,I,K,L,M, T210F,G,H,I,K,L,M        | All                        | •                         |          |          |          |                         |          |
| 210N,R, T210N,R                                  | All                        |                           | •        |          |          |                         |          |
| 337, 337A,B,C,D,E,F,G,H                          | All                        | •                         |          |          |          |                         |          |
| 337H   | 337-0002 thru 33701874     | •                         |          |          |          |                         |          |
| T337B,C,D  | 33701875 and On            |                           | •        |          |          |                         |          |

| Kit P/N  | Kit Type                 | Qty | Component P/N | Description |
|----------|--------------------------|-----|---------------|-------------|
| CBS-KT-1 | Master Cylinder Seal Kit | 1   | MS28775-110   | O-ring      |
|          |                          | 1   | MS28775-111   | O-ring      |
|          |                          | 1   | MS28775-009   | O-ring      |
|          |                          | 1   | MS28778-4     | O-ring      |
|          |                          | 1   | 800-001-6     | Lock-O-Seal |
| CBS-KT-2 | Master Cylinder Seal Kit | 1   | MS28775-110   | O-ring      |
|          |                          | 1   | S1628-110     | Backup Ring |
| CBS-KT-3 | Master Cylinder Seal Kit | 1   | MS28775-112   | O-ring      |
|          |                          | 1   | MS28775-110   | O-ring      |
|          |                          | 1   | MS28775-016   | O-ring      |
|          |                          | 1   | S1628-110     | Backup Ring |
| CBS-KT-4 | Master Cylinder Seal Kit | 1   | 600-0115-6    | Stat-O-Seal |
|          |                          | 1   | MS28775-012   | O-ring      |
| CBS-KT-5 | Brake Assembly Seal Kit  | 2   | MS28775-224   | O-ring      |
|          |                          | 2   | MS28775-218   | O-ring      |
|          |                          | 4   | MS28775-222   | O-ring      |
| CBS-KT-6 | Brake Assembly Seal Kit  | 1   | MS28775-225   | O-ring      |
|          |                          | 1   | MS28775-327   | O-ring      |
|          |                          | 1   | MS28775-224   | O-ring      |
|          |                          | 1   | MS28775-222   | O-ring      |



1 Partial model eligibility  
 2 Use this kit when NOT equipped with master cylinder assembly P/N 9882010-1  
 3 Use this kit when equipped with master cylinder assembly P/N 9882010-1  
 4 CBS-KT-5 contains eight O-rings that replace the O-rings in both brake calipers



Brake assembly and master cylinder seal kits for Caravan brakes. See complete Caravan section on pages 327-339.

