

Exhaust Valve Guide Cleaning Reamers for Continental and Lycoming Engines

Why McFarlane Special Reamers?

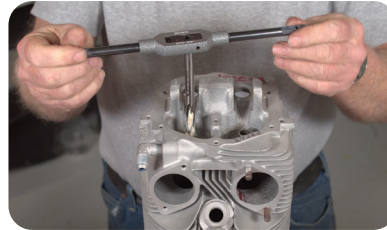
We now offer special valve guide reamers sized specifically for cleaning Continental and Lycoming exhaust valve guides. Standard valve guide reamers are designed to perfect the guide hole size when reaming new guides. The standard reamer pilot is sized to fit the small bore of a new unfinished guide to ensure a straight finished bore with stability. When this same type of reamer is used to clean the valve guides, the pilot is smaller than the finished hole. This causes the reamer to wander and misalign in the guide hole.

The McFarlane cleaning reamers have a pilot the same size as the valve stem. This properly sized pilot forces the reamer cutter to start straight and follow the correct valve stem path through the guide hole.

While using standard reamers to clean valve guides, you have probably noticed some valve guide metal in the reamer flutes afterwards. This metal is cut from the sides of the guide when hard carbon deposits displace the unguided reamer from the original guide hole, or the reamer was not started in alignment with the guide hole. Wavy or gouged guide holes cause premature carbon buildup, poor heat transfer, and early guide hole wear. Prevent damage to your valve guides by using McFarlane Cleaning Reamers!

Features and Benefits

- Discounted pricing for complete set
- Spiral flutes for a better guide finish
- Pilot sized specifically for cleaning
- Cutting pilot cleans guides without notching guide surfaces
- Constructed of precision ground, high speed tool steel
- See page 464 for additional product information



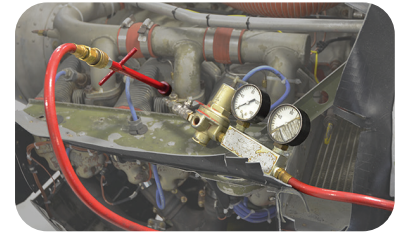
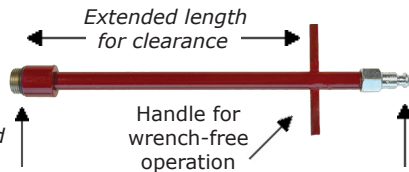
U.S. Patent No. 9,878,354

Compression Tester Extension

- EXTENSION CT1 (18mm thread)**
- EXTENSION CT12 (12mm thread)**
- EXTENSION CT14 (14mm thread)**

- Wrench-free compression testing
- Quality welded construction, O-ring seal
- Allows for exhaust system and baffling clearance
- Makes compression testing easy

Save time and money!



Manufactured by Baines Specialties, LLC.

V-Belts for Lycoming & Continental Engines

Replace your old worn belt today with a high-quality McFarlane V-belt!

- FAA-PMA approved for specific engine
- Each lot is tested for strength and stretch
- Constructed for increased abrasion resistance and tension load carrying
- Save \$\$\$



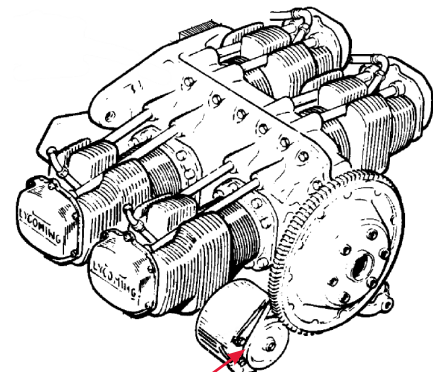
| Part Number | Lycoming Engines |
|----------------|---|
| MC37A19773-376 | O-235-L2A, O-235-L2C |
| | O-320-E2D |
| | IO-360-L2A |
| MCS1597-1-37.5 | O-360-A1A, O-360-A1AD, O-360-A1D, O-360-A1F6, O-360-A1F6D, O-360-A1G6, O-360-A1LD |
| | O-360-A2A, O-360-A2D, O-360-A2F, O-360-A2G |
| | O-360-A3A, O-360-A3AD |
| | O-360-A4A |
| | O-360-A5AD |
| | |
| Part Number | Continental Engines |
| MC539547-31.19 | IO-470-C,D,E,F,G,H,J,K,L,N,P,R,S |
| | O-470-A,B,E,G,J,K,L,M,P,R,S |
| | IO-520-A,F |

V-Belts for Cessna and Piper Aircraft

Replace your old cracked belt today!

- FAA-PMA Approved for specific aircraft at a lower price!
- Save with our realistic prices
- Constructed for increased abrasion resistance and tension load carrying
- Each lot tested for strength and stretch

Eligibility on the following pages



Alternator V-Belt

V-Belts for Cessna and Piper aircraft continued from previous page

| Model | Serial Number | P/N | Notes |
|--|---|-----------------------------|---|
| Cessna Aircraft | | | |
| 152 ¹ | 15279406 thru 15285940 | MCS1597-1-37.5 ³ | |
| A152 ¹ | A1520735 thru A1521028 | MCS1597-1-37.5 ³ | |
| F152 ¹ | F15201429 thru F15201952 | MCS1597-1-37.5 ³ | |
| FA152 ¹ | FA1520337 thru FA1520387 | MCS1597-1-37.5 ³ | |
| 172I,J,K,L, M,N,P,Q | All | MCS1597-1-37.5 ³ | |
| 172RG ¹ | 172RG0001 thru 172RG1178 | MCS1597-1-37.5 ³ | |
| F172L,M,N,P | All | MCS1597-1-37.5 ³ | |
| 177, 177A,B, 177RG, F177RG | All | MCS1597-1-37.5 ³ | |
| 180F,G | All | MC539547-31.19 ² | |
| 180H | All | MCS2416-1-31.0 ³ | |
| 180J,K ¹ | 18052385 thru 18052981 | MCS2416-1-31.0 ³ | Used with 60 Amp, 14 and 28 Volt Alternators |
| 182G ¹ | 18255101 thru 18255125 | MCS2416-1-31.0 ³ | |
| 182H,J,K,L,M, N,P,Q,R, F182P,Q | All | MCS2416-1-31.0 ³ | 18262466 thru 18267715 and F18200026 thru F18200094; with or without O-470-R, O-470-S Engines |
| FR182, R182, TR182 ¹ | FR18200001 thru FR1820070 R18200001 thru R18202032 | MCS1597-1-37.5 ³ | Used with O-540-J3C5D Engine |
| T182 | All | MCS1597-1-37.5 ³ | Used with 60 Amp Alternator on Lycoming O-540L3C5D Engine |
| | | MCS1597-1-38.5 ³ | Used with 95 Amp Alternator on Lycoming O-540L3C5D Engine |
| 185, 185A,B,C | All | MC539547-31.19 ² | |
| 185D,E, A185E,F | All | MCS2416-1-31.0 ³ | 18502311 thru 18503619 with 60 Amp 14V and 28V Alternators; 18503260 thru 18504448 with 60 Amp 28 Volt Alternator |
| 188, A188,188A,B, A188A,B, T188C | All | MCS2416-1-31.0 ³ | 188-0001 thru 188-0572 with 60 Amp, 12, 14, and 28 Volt Alternators; 188-0573 thru 18802348 with 60 Amp, 14 and 28 Volt Alternators; 18802349 thru 18803973, T18803325T thru T18803974T used with 60 Amp, 14 and 28 Volt Alternators, and 95 Amp, 128 Volt Alternator |
| TU206F,G, U206F,G | All | MCS2416-1-31.0 ³ | U20604469 thru U20605919 with 60 Amp, 24 Volt Alternator; U20605920 thru U20607020 with 60 Amp, 24 Volt Alternator and 95 Amp Alternator |
| 207, 207A, T207, T207A | All | MCS2416-1-31.0 ³ | |
| 210E,F,G,H,J, T210F,G,H,J | All | MCS2416-1-31.0 ³ | |
| 210K,L,M,N,R, T210K,L,M,N,R | All | MCS2416-1-31.0 ³ | 21059200 thru 21064135 with 60 Amp, 12 and 24 Volt Alternators; 21064136 thru 21065009 with 60 Amp and 95 Amp Alternators |
| | | MCN7365 ³ | 21064536 thru 21064950 with Fwd Alternator of Dual Alternator Installation; 21064898 thru 21065009 with Aft Alternator of Dual Alternator Installation |
| P210N | All | MCS2416-1-31.0 ³ | P21000761 thru P21000834 with Fwd Alternator of Dual Alternator Installation |
| | | MCN7365 ³ | |
| P210R ¹ | P21000835 thru P21000867 | MCN7365 ³ | For use with Fwd Alternator of Dual Alternator Installation |

Notes:

- ¹ Partial model eligibility
- ² Location of use is Generator
- ³ Location of use is Alternator

| Model | Serial Number | Location | Alternator Assy | OD | Width | Part Number |
|-----------------------|--|--------------------------|---|--------|-------|-------------|
| Piper Aircraft | | | | | | |
| PA-28-140 | 28-7125472 thru 28-7725290 and 28-250001 | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| PA-28-151 | All | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| PA-28-161 | 28-7716001 thru 28-7816000 28-7816001 thru 28-8616057 2816001 thru 2816119 | Engine, Alternator Drive | | 33.00" | 0.47" | MC73965-015 |
| | | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| PA-28-180 | 28-7205092 thru 28-7505260 and 28-5663 | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| PA-28-181 | 2843001 thru 2843999 2890001 thru 2890231 28-7690001 thru 28-8690062 | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Alternator | Kelly Aerospace AL Y6522 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Alternator | 680-500 (ES4032), 02591-002 (Lycoming) | 42.08" | 0.41" | MC73965-020 |
| | | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| PA-28-236 | 2811001 thru 2811050 | Alternator | Prestolite 99891-000 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |

Eligibility continued on next page

V-Belts for Cessna and Piper Aircraft continued from previous page

Eligibility continued from previous page

Continued from previous page

| Model | Serial Number | Location | Alternator Assy | OD | Width | Part Number |
|----------------------------|--|--------------------------|--|--------|-------|-------------|
| Piper Aircraft | | | | | | |
| PA-28-236 | 28-7911001 thru 28-8611008 | Alternator | Prestolite 99891-000 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| PA-28R-200 | 28R-7235001 thru 28R-7635545 | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| PA-28R-201 | 2837001 thru 2837061 28R-7737002 thru 28R-7837317 | Alternator | Prestolite 99891-000, Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| | 2844001 thru 2844999 | Alternator | Prestolite 99891-000, Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| PA-28R-201T | 2803001 thru 2803012 28R-7703001 thru 28R-7803373 | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| | | | | | | |
| PA-28RT-201 | 28R-7918001 thru 28R-8218026 | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| PA-28RT-201T | 2831001 thru 2831038 28R-7931001 thru 28R-8631005 | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| PA-32-300 | 32-7240056 thru 32-7940290, 32-40853 | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| PA-32-301 | 3206001 thru 3206060 32-8006002 thru 32-8606023 | Alternator | Prestolite ALY-6421 | 37.50" | 0.38" | MC73965-003 |
| | | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| PA-32-301T | 32-8024001 thru 8424002 | Alternator | 60 A Prestolite or 90 A Ford | 37.50" | 0.38" | MC73965-003 |
| | | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Alternator | 87415-05 (Ford 90 amp, 690-019) | 39.09" | | MC73965-016 |
| PA-32R-300 | 32R-7680001 thru 32R-7880068 | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| PA-32R-301 | 3213001 thru 3213103 32R-8013001 thru 32R-8613006 3246001 thru 3246087 | Alternator | Prestolite ALY-6421 | 37.50" | 0.38" | MC73965-003 |
| | | Alternator | Prestolite 99891-000 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| PA-32R-301T | 3229001 thru 3229003 32R-8029001 thru 32R8629008 | Alternator | | 37.50" | 0.38" | MC73965-003 |
| | | Alternator | Prestolite 99891-000 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Alternator | 87415-03 (Ford 90 amp) | 39.09" | 0.41" | MC73965-016 |
| PA-32RT-300 | 32R-7885002 thru 32R-7985106 | Alternator | Prestolite ALY-6421 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| PA-32RT-300T | 32R-7787001 thru 32R-7987126 | Alternator | Prestolite ALY-6422 | 40.55" | 0.28" | MC73965-009 |
| | | A/C Compressor | | 40.55" | 0.44" | MC73965-010 |
| | | Engine, Alternator Drive | Chrysler | 33.00" | 0.47" | MC73965-015 |
| PA-34-200 | 34-7250001 thru 34-7450220 | Alternator | Prestolite ALY-6421 | 37.50" | 0.38" | MC73965-003 |
| PA-44-180 | 44-7995001 thru 44-8195026 and 4495001 | Alternator | Prestolite ALY-6421, ALX 84 21 LS | 37.50" | 0.38" | MC73965-003 |
| PA-44-180T | 44-817001 thru 44-8207020 | Alternator | Prestolite ALY-6421, ALX 84 21 LS | 37.50" | 0.38" | MC73965-003 |
| PA-46-310P | 4608001 thru 4608140 46-8408001 thru 46-8608067 | Alternator | 690-040 (Electrosystems ES4005-2) | 35.00" | 0.38" | MC73965-011 |
| PA-46-350P (w/o G1000) | 4622001 thru 4622200 | Alternator | 690-040 (Electrosystems ES4005-2) | 35.00" | 0.38" | MC73965-011 |
| PA-46-500TP (w/ G1000) | 4697002 thru 4697999 | Alternator | 602-300 (ES-4019-1) | 22.08" | 0.41" | MC73965-023 |
| PA-46-500TP (w/o G1000) | 4697001 thru 4697398 | Alternator | 602-300 (ES-4019-1) | 22.08" | 0.41" | MC73965-023 |