

**SPECIAL  
AIRWORTHINESS INFORMATION  
BULLETIN**

REGULATORY SUPPORT DIVISION

P.O. BOX 26460

OKLAHOMA CITY, OKLAHOMA 73125-0460

U.S. Department of Transportation  
Federal Aviation Administration

No. ACE-99-35

September 15, 1999

***SAIB's are posted on the internet at <http://av-info.faa.gov>***

This is issued for informational purposes only and any recommendation for corrective action is not mandatory.

**Introduction:**

A recent propeller repair station audit has revealed that certain blade face alignment, chordwise and thickness inspections were not properly accomplished in accordance with the manufacturer's propeller overhaul manual procedures. This discovery has prompted an investigation to gather data so that it can be determined whether an airworthiness directive is required. There have been no reports of propeller failures; however, a propeller blade failure can result in the loss of aircraft control. This is considered a significant safety issue and all owners/operators are requested to report any problems with propellers that were overhauled by Santa Monica Propeller Service, Inc. between the dates January 1997 to March 1999. Santa Monica Propeller Service, Inc. is located at 3135 Donald Douglas Loop South, Santa Monica, California 90405; Telephone (310) 390-6233, (800) 421-9995, Facsimile (310) 398-3471. This Special Airworthiness Information Bulletin (SAIB) is applicable to owners/operators of all Hartzell and McCauley Propeller models that have had their respective propellers overhauled by Santa Monica Propeller Service, Inc during this time period. Please review the attached compiled listing of identified propeller models and serial numbers to determine if this SAIB is applicable. This is not an exhaustive list as there may be other propellers that were overhauled by Santa Monica Propeller Service, Inc. not listed in this SAIB.

**Background:**

The FAA recently conducted a routine quality evaluation on Santa Monica Propeller Service, Inc., reviewed repair station records, and shop procedures. During the evaluation it was found that certain required inspections were not being performed in accordance with Hartzell Propeller, Inc. and McCauley Propeller Systems, Inc. overhaul manuals. This included propeller blade face alignment, blade chord, and blade thickness checks. The FAA has determined these checks are required and if not performed may result in a blade configuration not in conformance with the FAA Approved type design. A blade non-conformant may result in the reduction of service life for the propeller or affect the propeller's continued airworthiness. To date, there have been no reported propeller failures or Service Difficulty Reports (SDR's). However, the FAA determined that owners and operators of these propeller models overhauled by this propeller overhaul shop during the last two years must be notified of this potential safety problem.

**Recommendation:**

The FAA requests that owners and operators of affected Hartzell, and McCauley Propeller models review their propeller maintenance records and determine if the propeller is affected by this SAIB. It is recommended that all owners/operators check their aircraft and propeller log books for any record of propeller maintenance accomplished by Santa Monica Propeller within the last two years. If any maintenance record shows that work was performed by Santa Monica Propeller, Inc. within the last two years, then the records should be checked further to verify that the propeller blades were properly overhauled in accordance with all Hartzell Propeller, Inc., or McCauley Propeller Systems, Inc. overhaul procedures/requirements. It is also recommended that affected propellers be returned to Santa Monica Propeller to have these inspections accomplished.

NOTE: Contact Hartzell Propeller, Inc. or McCauley Propeller Systems, Inc. for additional information concerning face alignment, blade thickness and chord minimum measurement requirements.

Please send any reports of service difficulties or blade non-conformities/failures to the Chicago Aircraft Certification Office (ACO) for Hartzell and McCauley Propeller models related to this SAIB. Also, please document your service experience and report it to Hartzell, or McCauley Product Support Departments as applicable, so that any other problems can be addressed.

**FOR FURTHER INFORMATION CONTACT:**

FAA, Chicago Aircraft Certification Office, Propulsion Branch, ACE -118C, 2300 East Devon Avenue, Des Plaines, IL 60018; Mr. Tim Smyth, Aerospace Engineer; Telephone (847) 294-7132; Facsimile (847) 294-7834

Hartzell Product Support; Telephone (937) 778-4379; Facsimile (937) 778-4321

McCauley Product Support; Telephone (937) 890-5246; Facsimile (937) 890-6001

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Hartzell and McCauley Propeller Models Overhauled by Santa Monica Propeller, Inc. between January 1997 through March 1999.

| <b>1999 MAKE</b> | <b>MODEL</b>           | <b>HUB SERIAL NUMBER</b> | <b>BLADE SERIAL NUMBER</b>   |
|------------------|------------------------|--------------------------|------------------------------|
| Hartzell         | HC-C3YR-1RF/F7663R     | DY1214                   | E47951, E52105, E48943       |
| McCauley         | 3A32C76(S)(M)/S82NB-2  | 774724                   | K78666YS, K78669YS, K78681YS |
| McCauley         | 2A36C23/84B-0          | 705476                   | K45135YS, K46008YS           |
| McCauley         | D3D32C407/G82NDA3      | 821033                   | CB351, CB360, DC188          |
| Hartzell         | HC-E2YL-2RBSF/F7663-4  | 3812E                    | E44833, E44793               |
| Hartzell         | HC-E2YR-2RBSF          | 2628E                    | E31067, E31032               |
| McCauley         | C2A34C204B             | 931315                   | ND011.ND022                  |
| Hartzell         | HC-C2YK-1BF/F7666A-2   | CH27843                  | F64895, F64893               |
| McCauley         | D2AF34C60NKM           | 779000                   | S77856YS, S77857YS           |
| McCauley         | 3AF32C87NR1/S82NC-5.5  | 798906                   | K98046YS, K98061YS, K98077YS |
| Hartzell         | HC-C2YK-1BF/F7666A-2   | CH7472E                  | C78215, C782328              |
| Hartzell         | HC-A2V20-4A1/V8433     | AK1119                   | A69934, A69287               |
| McCauley         | 3AF32C75/82NB-6        | 776011                   | DE010YS, DE1017YS, DE023YS   |
| McCauley         | 3AF32C75/82NB-6        | 791749                   | GJ289YS, GJ297YS, GJ306YS    |
| Hartzell         | HC-A2V20-4A1/V8833-4   | AK1017                   | A97083, A93185               |
| McCauley         | D3A32C90N/82NC-2       | 823059                   | CI157YS, CJ043YS, CJ053YS    |
| Hartzell         | HC-C2YK-1/F8467-7R     | CH12265E                 | D43088, D43164               |
| Hartzell         | HC-C2YK-2CUF/FC8477A-4 | AV86004                  | D50422, FO5800               |
| McCauley         | 3A32C76SM/S82NC-2      | 851746                   | FC227YS, FF372YS, FF330YS    |
| Hartzell         | HC-C2YK-1BF/F7666A-2   | CH22127E                 | C92970, C91859               |
| McCauley         | 2A34C201/90DA-8        | 713571                   | B36651, B36666               |
| Hartzell         | HC-E2YR-1BF/F8477A     | DK1853A                  | D93639, D93791               |
| McCauley         | 3AF32C504/82NEA -15.5  | 810813                   | AK116, AK113, AK073          |
| Hartzell         | HC-B3TN-5E/T10178B-11  | BV4394                   | E40957, E42171E85548         |

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| Hartzell | HC-D4N-3C/D9290SK          | FY332A    | F90253, F90339, F90338, F90329 |
| McCauley | 2A34C66NPS/90AT-8          | 744126    | C18154YS, C28725YS             |
| McCauley | DAF32C505-B/82NEA -5       | 821687    | CA540, CA665, CA727            |
| McCauley | D3A32C90MS/S82NC-2         | 764196    | F20459YS, F205591YS, F26615YS  |
| Hartzell | HC-E2YL-2BS/7663-4         | 837E      | B56128, B56322                 |
| Hartzell | HC-E2YL-2BSF/F7663-4       | 841E      | D22476, D235200                |
| McCauley | 2A36C23-1/84B-0            | 681428    | C23054YS, C207004YS            |
| McCauley | 3AF32C504/82NEA -5.5       | 681428    | C230054YS, C207004YS           |
| Hartzell | HC-E2YR-1BF/F7666A         | DK638     | HO3412, HO3389                 |
| Hartzell | HC-C2YR-1BF/F8467-7R       | CH2010-4E | D30905, D41820                 |
| McCauley | D3A34C401/G90DFA -10       | 790576    | PFK050, PGH141, PFK584         |
| Hartzell | HC-C2YR-1BF/F7666A-4       | CH32517A  | C94916, C94968                 |
| McCauley | B2D34C214-B/90DHB-8        | 778234    | K78303, K78318                 |
| McCauley | 2D34C202/82PA-6            | 703988    | C85738, C89172                 |
| McCauley | 3AF32C505B/82NEA -5-5      | 840574    | CE074, CE094, CE156            |
| McCauley | 3AF32C505C/82NEA -5.5      | 871520    | HF007, HF009, HF014            |
| McCauley | D3A34C402/90DFA -10        | 796152    | PB91704, PB91871, PB91919      |
| Hartzell | HC-B3TN-5C/T10282+4        | BU4183    | H23977, HC23991, HC23992       |
| Hartzell | HC-B3TN-5C/T10282+4        | BU4183    | H23977, HC23991,               |
| McCauley | D3A34C402/90DFA -10        | 850544    | B106713, B106372, B95383       |
| McCauley | 3FF32C501/90UMB-0          | 779078    | K89067, K80180, K80508         |
| Hartzell | HC-E2YK-2RBS/8465-7R       | BP2340E   | B8271, B8404                   |
| Hartzell | HC-B3TN-3G/T10178-3R       | BU13326   | HO7019, HO7024, HO7039         |
| Hartzell | HC-B3TN-3G/T10178-3R       | BU15589   | F35690, F35457, F35555         |
| Hartzell | HC-B3TN-3G/T10178-3R       | BU15590   | F35727, F35557, F35143         |
| Hartzell | BHC-C2YF-2CKLUF/FJC8459-9R | AN4155E   | E35450, E35463                 |
| McCauley | 2A34C203/90DCA-8           | 735284    | K51633, B33802                 |
| Hartzell | HC-A2VK-1D/8433-7          | J1038     | A39609, A39795                 |
| McCauley | C2A34C304/90DCB-8          | 790965    | B106067, B106068               |
| Hartzell | HC-E2YR-1BF/F7666A-2       | DK627E    | J24287, J24288                 |
| Hartzell | HC-C2YK-1BF/F7666A         | CH9640E   | J22701, J22699                 |
| McCauley | D3A34C402B/90DFA -10       | 814096    | B116678, B116684, B116683      |
| Hartzell | HC-E2YR-2RBSF/F8465-7R     | 2595E     | J235303, J23524                |
| McCauley | 2A34C203/90DCA-8           | 761835    | K56315, K56333                 |
| Hartzell | HC-A2VK-2B/V8433-10        | H2432     | C96484, D1890                  |
| McCauley | B2D34C214/G90DHB-16E       | 766192    | CK116, CK120                   |
| Hartzell | HC-F2YR-1BF/F8468A-4R      | CM1214B   | E22785, E22805                 |
| Hartzell | HC-E3YR-2ATF/FC8468-6R     | DJ9565A   | F53702, F72408, F2412          |
| Hartzell | HC-D4N-3C/D9290K           | FY208A    | F77978, F78143, F95628, F78146 |
| Hartzell | HC-M2YR-2CLEUF/FJC7666A    | FB1040    | H34306, H34313                 |
| Hartzell | HC-M2YR-2CEUF/FC7666A      | FB578E    | H27012, H31781                 |
| Hartzell | HC-C2YK(R)-1BF/F7666A-2    | AW67      | C97045, D3216                  |

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| McCauley             | 4HFR34C764-B/94LMB-0      | 921137                       | KB015, KA011, KA021, KA017   |
| Hartzell             | HC-B3Z20-2A/10151-8R      | 740J                         | A10138, A46566, A6800        |
| Hartzell             | HC-B3Z20-2A/10151-8R      | 340J                         | A97185, A97591, A97066       |
| Hartzell             | HC-E3YR-2ALTF/FJC8468B-6R | DJ9949A                      | FO1623, F01636, FO1653       |
| Hartzell             | HC-E3YR-2ALTF/FJC8468-6R  | DJ9677A                      | F16578, F16582, F16595       |
| Hartzell             | HC-B3TN-3D1/T10282        | BUA21979                     | J22041, J22042, J22045       |
| McCauley             | 3AF32C93-NR/S82NC-6       | 794097                       | K96257YS, K96243YS, K96263YS |
| Hartzell             | HC-B3TN-3D/T10282HB       | BUA21973                     | C89756, C89766, C90493       |
| Hartzell             | HC-E3YR-2ALTF/FJC8468-6R  | DJ8169A                      | H89832, H89833, H89834       |
| Hartzell             | HC-EYR-2ALTF/FJC8468-6R   | DJ10369A                     | F70841, F70848, F70850       |
| Hartzell             | HC-B3TN-3B/T10173B-8R     | BUA21222                     | E95592, E95178, E95590       |
| Hartzell             | HC-E3YR-2ATF/FC8468-6R    | DJ9318A                      | 96400, 96394, HO1162         |
| Hartzell             | HC-E3YR-2ATF/FC8468-6R    | DJ11552A                     | C73330, C78044, C79742       |
| Hartzell             | HC-E3YR-2ATF/FC8468-8R    | DJ8365A                      | C28481, C22438, C47598       |
| Hartzell             | HC-E3YR-2ATF/FC8468-8R    | DJ8583A                      | HO2160, D81056, HO2149       |
| McCauley             | 2A34C203-C/90DCA-8        | 736974                       | K26314, K26340               |
| Hartzell             | HC-B3TN-3M/T10173A-6O     | BU13576                      | E67033, E67038, E67831       |
| <b>1998<br/>MAKE</b> | <b>MODEL</b>              | <b>HUB SERIAL<br/>NUMBER</b> | <b>BLADE SERIAL NUMBER</b>   |
| Hartzell             | BHC-C2YF-1BF/F8052        | AM2971                       | F99591, F99600               |
| McCauley             | 4HFR34C754-D/94LA-0       | 871325                       | HA036, HA048, HC037, HC042   |
| McCauley             | 4HFR34C754-D/94LA-0       | 871323                       | HC010, HC025, HC057, HC032   |
| Hartzell             | HC-C2YR-2CUF, FC8477A-6   | AU9035B                      | E77277, E77287               |
| Hartzell             | HC-C2YR-2CUF/FC8477A-6    | AU9044B                      | H14917, D56985               |
| Hartzell             | HC-E2YR-2RBSF/F8465-7R    | BP5809E                      | D999030, E6                  |
| Hartzell             | HC-E2YR-2RBSF/F8465-7R    | 605E                         | F56548, F56552               |
| McCauley             | C2A34C204/90DCB-8         | 798701                       | B112909, B118335             |
| McCauley             | 3A32C406/82DB-2           | 870234                       | HB013, HB004, GJ225          |
| McCauley             | 3AF32C505-B/C82NEA-5.5    | 850323                       | FE453, FE457, FE468          |
| Hartzell             | HC-C2YR-2CUF/FC7666A-2    | AU6315E                      | HO4374, HO4382               |
| Hartzell             | HC-C2YR-2CLEUF/FJC7666A-2 | DN168E                       | D92592, D92625               |
| Hartzell             | PHC-C3YF-2UF/FC7663D-2Q   | EB1591                       | F1108, F97818, F94874        |
| Hartzell             | PHC-C3YF-2UF/FC7663D-2Q   | EB3211                       | H40489, H40487, H40484       |
| Hartzell             | HC-C2YK-1BF/F7666A-2      | CH19077                      | C63707, H42706               |
| McCauley             | 1C172/EM7653              | 81400                        | 81400                        |
| McCauley             | C2A34C204/90DCB-8         | 780637                       | B65067, B65114               |
| Hartzell             | HC-E3YR-2ATF/FC8468-6R    | DJ11469A                     | J15746, J15747, J15749       |
| Hartzell             | HC-E3YR-2ALTF/FTJ8468-6R  | DJ11543A                     | J12361, J12363, J12364       |
| Hartzell             | HC-C2YK-1BF/F7666A-2      | CH3938E                      | C65237, C65241               |
| Hartzell             | HC-C2YK-2CULEGF/FJC7666A  | AU6875                       | H48639, H47210               |
| McCauley             | 3A32C406-C/G82NDB-2       | 930656                       | NA216, NA221, NA226          |

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| Hartzell | HC-F3YR-2UF/FC7479-2R     | DA1454   | E71805, E71807, E71809        |
| Hartzell | HC-F3YR-2UF/FC7479-2R     | DA1456   | E61952, E66294, E66295        |
| McCauley | 3A32C76-SMR/S-82NB-2      | 770119   | E72687YS, F72882YS, EH235YS   |
| McCauley | B2D34C213/90DHA-16        | 770197   | B69298, B69324                |
| Hartzell | HC-C2YK-1BF/F7666A-2      | CH12200  | C73644, C76907                |
| McCauley | 1C172BTM7357              | E18795   | E18795                        |
| Hartzell | HC-C3YK-1BF/F8457D-4      | CH4733   | D96914, D96916                |
| Hartzell | HC-B3R30-2E/R10152-5.5    | 1555N    | H1773, H1774, H1777           |
| Hartzell | PHC-C3YF-2LKUF/FJC7663-2R | EB3419A  | H53804, H53805, H53806        |
| Hartzell | HC-A2VK-2/V8433-10        | H943     | A64281, A64124                |
| Hartzell | HC-B3R30-2E/R10152-5.5    | 1526N    | F93604, F93608, H80913        |
| McCauley | 2AF34C305A/L78CBA-2       | 751350   | K77866, K79909                |
| Hartzell | HC-A2VK-2/V8433-10        | H2082    | B97312, B97444                |
| Hartzell | HC-C3YN-2LUF/FJC9684-3R   | DG654    | C58337, C61929, C79885        |
| McCauley | 2AF43C305/L78CBA-0        | 870253   | GA028, GA061                  |
| Hartzell | HC-C2YK-2CUF/FC8477-4     | AU8397A  | F92030, F92029                |
| Hartzell | HC-C2YK-2CUF/FC8477-4     | DN4402A  | H29857, H29860                |
| Hartzell | HC-E2YR-2RBSF/F8465-7R    | BP6418   | F46295, F46289                |
| Hartzell | HC-E2YR-2RBS/8465B-7R     | BP7576   | B80424, B80397                |
| McCauley | D2AF34C308/90DEA-12       | 778531   | B78051, B75583                |
| McCauley | 3AF32C87-NR/S-82NC-5.5    | 777156   | K99352YS, K99383YS, K99355YS  |
| Hartzell | HC-C2YK-1BF/F8475D-4      | CH4771   | F47104, C68472                |
| Hartzell | HC-B3TN-3B/T10173-3       | BU18331  | J18599, J18600, J18601        |
| McCauley | D3A34C402/90DFA-10        | 789418   | B84756, B85980, B86997        |
| McCauley | 3A32C76SM/82NB-2          | 776817   | K78919YS, K79102YS, K79146YS  |
| McCauley | D3A34C402/90DFA-10        | 801707   | B126918, B125231, B126928     |
| Hartzell | HC-E2YK-2RBSF/F8465-75    | 1642     | C705045, C85980               |
| McCauley | 3AF32C87NP/S82NC-5.5      | 786101   | F8965YS, F89653YS, K88314YS   |
| Hartzell | HC-B3TN-3B/T10173K-8      | BUA20704 | H10848, H11520, H11525        |
| McCauley | D3A34C401/90DFA-10        | 8910103  | B82274, B810917, B82284       |
| Hartzell | BHC-C2YF-2CLUF/FJ8459-8R  | AN5192   | J10156, H83225                |
| McCauley | 3A32C406B/82NB-2          | 830375   | BH286, BH271, BJ097           |
| Hartzell | HC-M2YR-2CLE/FJC7666A     | FB740    | E52607                        |
| McCauley | 2A34C66NOP/90AT-8         | 736388   | B30481YS, B30747YS            |
| McCauley | D3AF34C402/90DFA-10       | 795051   | F1532, IF028, IC111           |
| Hartzell | HC-E2YL-2BSF/F7663-4      | BG2689   | F51433, F51412                |
| Hartzell | HC-E2YL-2BSF/F7663-4      | BG1819   | F56168, F67950                |
| Hartzell | HC-E3YR-2ATF/FC8468B-6R   | DJ9565A  | H32922, D79960, D81056        |
| Hartzell | HC-E3YR-2ALTF/FJC8468-6R  | DJ8704A  | E11467, E11481, E19785        |
| Hartzell | HC-E3YR-1RF/F7673DR       | FM1129A  | E90870, E90859, E90851        |
| McCauley | D3A34C401/90DFA-10        | 771077   | B92954, B93442, B95391        |
| McCauley | D3432C88/S82NC-2          | 755624   | F22068YS, F22119YS, F300052YS |

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| Hartzell | HC-E3YR-1RF/F7673DR      | FM1099A  | E84720, E68648, E68653                 |
| McCauley | 3AF32C87NO/S82NC-5.5     | 798971   | F44157YS, F63208YS, F63169YS           |
| McCauley | 3AF32C87NO/S82NC-5.5     | 799666   | F37194YS, F37834YS, F38530YS           |
| Hartzell | HC-C2YR-2CLGUF/FJC766A   | AU5991   | J11450, J11452                         |
| Hartzell | HC-C2YR-2CGUF/FC766A     | AU292    | J10158, J10157                         |
| Hartzell | HC-E2YR-2RBSF/F8465-7R   | 2814     | H40037, H90494                         |
| Hartzell | HC-C2YK-1B/7666A-3.5     | CH5629   | B30944, B31647                         |
| McCauley | 3AF34C92/S90LF-0         | 922403   | MH145YS.ME020YS, ME001YS               |
| McCauley | 3AF34C92/90LF-0          | 922381   | MH154YS, ME013YS, LK004YS              |
| Hartzell | HC-E3YR-2ATF/FC8468-6R   | DJ7836   | F65427, F65430, C95088                 |
| McCauley | 2A34C203/90DCA-8         | 757664   | K52258, K52269                         |
| Hartzell | HC-B3TN-3B/T10173B-8R    | BU20434  | D72091, D72099, F23100                 |
| Hartzell | HC-B3TN-3B/T10173B-8R    | BU20782  | E87357, E85330, E85320                 |
| Hartzell | HC-C2YF-1B/8468-4        | AM201    | A44858, A44968                         |
| Hartzell | BHC-C2YF-2CKUF/FC8459-8R | AN5314   | E12956, E18364                         |
| McCauley | 1C160DTM7557             | CK029    | CK029                                  |
| McCauley | 2A34C66NP                | 724110   | B20212YS, B20192YS                     |
| McCauley | A34C49NO/S90A-9          | 776057   | C14794YS, C15056YS                     |
| McCauley | C2A34C204/90DCB-8        | 792910   | B107216, B107227                       |
| Hartzell | HC-C3YR-1RF/F8475R       | DY3386A  | E86807, F01984, F2734                  |
| McCauley | 2A34C216/90DHB-16E       | 800553   | B120817, B117511                       |
| McCauley | 3FF32C501A/90UMB-0       | 777598   | K72060, K773390, K77412                |
| McCauley | 3AF32C502C/G82NEA-5.5    | 921497   | MC063, MC074, MC077                    |
| McCauley | 2A34C221/90DHC-16E       | 862083   | GH611, GJ475                           |
| McCauley | B2D34C218A/90DHB-8       | 813744   | BF905, BF909                           |
| McCauley | 1C160DTM7557             | 733364   | 733364                                 |
| Hartzell | HC-B5MP-3C/M10876AJK     | EVA2271  | H43980, H43983, H43984, H43991, H43993 |
| McCauley | D3A32C88MR/S82NC-2       | 736803   | K61037YS, K61034YS, K61231YS           |
| McCauley | B2D34C208/82PA-6         | 727398   | K15859, K15865                         |
| Hartzell | HC-B5MP-3C/M10876AS      | EVA2328  | F93814, F93830, F93833, F93836, F93840 |
| Hartzell | HC-M2YR-2CEUF/FC7666A    | FB1158B  | E54579, E52317                         |
| Hartzell | HC-I3YR-1RF/???          | HK24A    | H57608, H57609, H57612                 |
| McCauley | B2D34C217/90DHB-8        | 788422DS | B97067, B97625                         |
| Hartzell | HC-C2YF-1B/8468A-4       | AM873    | A48562, A48523                         |
| McCauley | 3FF32C501C/90UMB-0       | 902415   | KH003, KH004, KH007                    |
| McCauley | D2AF34C308A/90DEA-12     | 764477   | K59671, K59681                         |
| McCauley | D2AF34C305A/L78CBA-2     | 735541   | K76342, K76415                         |
| Hartzell | HC-C2YR-2CUF/FC8477A-4   | DN4405A  | H22624, H22622                         |
| McCauley | 2AF34C55-0/S78FF-0       | 851994   | C68934YS, C68817YS                     |
| Hartzell | HC-B3TN-3G/T10178K-3R    | BU13999  | E95649, E98956, F37762                 |
| Hartzell | HC-B3TN-3G/T10178-3R     | BU13984  | F35719, F35722, F35724                 |

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| Hartzell | HC-B3TN-3D/T10282           | BUA21173 | F98638, F98650, H03803         |
| McCauley | 3A32C76SMR/82NB-2           | 766018   | H1251YS, H1278YS, H1310YS      |
| Hartzell | HC-C2YK-1BF/F7666A          | CH1673   | J17119, J17120                 |
| McCauley | D3A32C88R/82NC-2            | 712356   | K68538YS, K68590YS, DD480YS    |
| Hartzell | HC-C3YN-2LUF/FJC9684-3R     | DG242    | H71629, D7160, D17880          |
| Hartzell | HC-B4MP-3B/M10476K          | FWA2325  | F75788, F75786, F75791, F75780 |
| Hartzell | HC-B5MP-3B/M10476K          | FWA2321  | F75787, F75792, F75785, F75778 |
| Hartzell | HC-A2VK-1/V8433-7           | J579     | A26805, A272241                |
| McCauley | 2A36C23PEG/S84B-0           | 789548   | K97710YS, K98371YS             |
| Hartzell | HC-A2VK-1/V8433-7           | J1312    | A84235, C498817                |
| McCauley | D2AF34C306B/G78CAA-0        | 851071   | FF046, FF056                   |
| Hartzell | HC-M2YR-2UF/FC7666A-2       | FB105    | H53479, H53483                 |
| Hartzell | HC-E3YR-1RF/F8468A          | FM201    | H89814, E15432, E28248         |
| McCauley | 1A103TCM695A                | BF196    | BF196                          |
| McCauley | 2A34C50NP/90A-8             | 71222    | C11531YS, C10998YS             |
| Hartzell | HC-B3MN-3/M10083            | GB210    | 9921, 9914, 9920               |
| McCauley | D3A32C88M/S82NC-2           | 860743   | GB247YS, GB258YS, GB269YS      |
| Hartzell | BHC-C2YF-2CKUF/FC8459B-8R   | AN6814   | D17486, D17540                 |
| Hartzell | BHC-C2YF-2CKLUF/FJC8459-8R  | AN2956   | FG1258, FG1261                 |
| Hartzell | HC-A2VK-1D/V8433-7          | J146     | A19192, A19482                 |
| McCauley | 3A32C76SM/S82NC-2           | 766289   | F69467YS, F69588YS, F69364YS   |
| McCauley | 1C160DTM7557                | 82575    | 82575                          |
| McCauley | 2A36C23PEG/S84B-0           | 705113   | C90508YS, C91547YS             |
| McCauley | 3AF32C93NR/83NEA-5.5        | 704798   | K60265YS, K61538YS, K615542YS  |
| McCauley | 3AF32C505/82NEA-5.5         | 80526    | HD227, HF035, HF038            |
| Hartzell | HC-B3TN-3R/T10173AB-6Q      | BUA21393 | F68574-1, F68560-1, F68561-1   |
| Hartzell | HC-B3TN-3R/T10173AB-6Q      | BUA21390 | F87383-1, F87389-1, F87384-1   |
| McCauley | 3GFR34C701C/93KB-0          | 812693   | BC039, BC164, K79615           |
| Hartzell | PHC-C3YF-1RF/F7663-2R       | EE1614   | F70516, F70522, F87889         |
| Hartzell | HC-B3TN-3G/T10178-3R        | BUA21176 | D99381, E10239, E10265         |
| McCauley | 2A34C50JMNO/S90-8           | 682316   | C96226YS, K944323YS            |
| Hartzell | BHC-C2YF-2CKUF/FC8459B-8R   | AN2328   | C79255, C79360                 |
| Hartzell | BHC-C2YF-2CKLUF/FJC8459B-8R | AN2276   | C79577, C79591                 |
| Hartzell | HC-E2YR-1B/84677R           | DK206    | B95596, B91655                 |
| Hartzell | HC-C3YK-1BF/F84750-4        | CH16234  | H53255, H53256                 |
| Hartzell | HC-C2YK-2CUF/FC7666A-4      | AU6876E  | F08960, F08961                 |
| Hartzell | HC-F2YR-1BF/F8468A-4R       | CM422    | D72688, E35796                 |
| McCauley | D3A34C404B/G80VG-0          | 830721   | PBK231, PCH073, PCJ083         |
| Hartzell | HC-E2YR-2RRBSF/F8465-75     | BP4695E  | J15645, J15642                 |
| Hartzell | HC-E2YR-2RBSF/F8465-75      | 2980E    | J15639, J15646                 |
| Hartzell | HC-B3Z30-2B/1015108R        | AB1007   | A63388, A634474, A63450        |
| Hartzell | HC-B3Z30-2B/10151-8R        | AB1861   | A63368, A63415, A63428         |



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| McCauley | B3D32C407/82NDA-3          | 812452   | BD898.BD919, BD927              |
| Hartzell | PHC-J3YF-2UF/FC7663DR      | ED584    | E26962R, E26890R, E27501R       |
| Hartzell | PHC-J3YF-2UF/FC7663DR      | ED614    | E26880R, E44307R, E28106R       |
| McCauley | 2AF34C55NO/78FF-0          | 740408   | C45605YS, C45624YS              |
| McCauley | 2AF34C55NO/78FF-0          | 753596   | C45619YS, C41414YS              |
| McCauley | 2D36C14B/S78RM-4           | 661259   | C49750YS, C40031YS              |
| Hartzell | HC-D4N-3C/D9290K           | FY272A   | F83102, F83298, F83302, F83104  |
| Hartzell | HC-B3TF-7A/T9212K-2        | EX404    | HO9989, HO9988, HO9990          |
| McCauley | COA34C2304/90DCB-8         | 774066   | B104419, B106099                |
| McCauley | 3AF32C87N/S82NC-6          | 803041   | K104323YS, K104346YS, K104315YS |
| McCauley | 3AF32C87N/82NC-6           | 800830   | F75145YS, F75161YS, F75168YS    |
| Hartzell | HC-C2YK-1BF/FL7666A-2      | CH22548  | F28952, F29506                  |
| Hartzell | HC-A3V20-2C/V8433          | AD139    | B71004, B69947, B71619          |
| Hartzell | HC-83V20-2/V8433N          | D2103    | D44086, D39644, D44197          |
| McCauley | 3AF32C72NR/82N-4           | 737926   | C31922YS, C32028YS, C32012YS    |
| McCauley | 3AF32C72NR/82N-4           | 687426   | C31906YS, C32082YS, C32268YS    |
| Hartzell | HC-B3TN-3B/T10173B-8R      | BU13744  | N/A                             |
| McCauley | D2A34C58-0/90AT-4          | 772619   | K68173YS, K69939YS              |
| Hartzell | HC-C2YR-2CUF/FC8477-4      | AU8289B  | H90775, H90780                  |
| McCauley | C336C415C/G82NGA -8        | 890210   | IL057, IK276, IK296             |
| Hartzell | HC-B4TN-3B/T10173F-10.5    | EAA1749  | H20800, H20802, H20804, H20808  |
| McCauley | 3AF32C93NR/S82NC-5.5       | 77610    | BF101YS, BF114YS, F70641YS      |
| McCauley | 3AF32C93NR/S82NC-5.5       | 756563   | K87816YS, K870807YS, K88644YS   |
| Hartzell | HC-B3TN-3D/T10282          | BU16876  | F71678, F71679                  |
| McCauley | D3A34C402/90DFA-10         | 796785   | PB112575, PB113043, PB113711    |
| Hartzell | HC-B3TN-5FL/LT10673        | BV3967   | F18802, F188803, F18799         |
| Hartzell | HC-B3TN-5FL/LT101673B      | BV4004   | F18821B, F18762B, F188836B      |
| Hartzell | HC-C2YK-2CUF/FC8477A-4     | AU8649A  | H17473, H7474                   |
| Hartzell | HC-0C2YK-2CUF/FC8477A-4    | AU9006A  | HO1365, HO1375                  |
| Hartzell | PHC-J3YF-2UF/FC7663K-2R    | ED3395   | F98252, F98254, F98259          |
| Hartzell | PHC-J3YF-2UF/FC7663K-2R    | ED3394   | F98248, F98255, F98256          |
| McCauley | D3A43C402/90DFA-10         | 891513   | JG115, JG125, JG129             |
| McCauley | D3A32C90MO/B2NC-2          | 733797   | EG082YS, EF053YS, EH192YS       |
| Hartzell | HC-B3TN-3B/T10173B-3R      | BUA20910 | F57750, F58749, F59960          |
| McCauley | 2A34C66-NP/S90AT-8         | 742381   | J10241YS, J1038YS               |
| McCauley | 3AF32C93N/82NC-5.5         | 793208   | K94609YS, K94627YS, K94849YS    |
| Hartzell | BHC-C2YF-2CKLUF/FJC8459-8R | AN6878   | D67544, D67547                  |
| Hartzell | BHC-C2YF-2CKUF/FC8459-8R   | AN6987A  | D77150, D81424                  |
| Hartzell | HC-82VF-10/V8433-2         | F2425    | C25080, 85106                   |
| McCauley | D3A34C401/90DFA-10         | 792333   | B106669, B106684, B1007147      |
| McCauley | D3A32C90MN/82NC-2          | 745928   | F25063YS, F71810YS, F71853YS    |
| McCauley | HC-D4N-3A/D9383K           | FY853    | H45196, H45199, H45190, H63971  |

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| Hartzell | HCD4N-3A/D9383K          | FY854         | H45184, H45183, H45175, H45181 |
| McCauley | D3A32C90R/S82NC-2        | 87181         | F70641YS, F70652YS, F70660YS   |
| Hartzell | HC-A2VK-1D/V843307       | J716          | F75263, F75264                 |
| McCauley | D3A34C402-0/90DFA-10     | 911335        | LD062, LD084, LD097            |
| McCauley | 3AF32C509-C/GL82NFA-6    | 890179        | IL023, IL057, IL069            |
| Hartzell | HC-E2YK-2RBSF/F8465-7R   | 2260          | D23444, F55774                 |
| McCauley | 3A32C76SM/82NB-2         | 770334        | K73674YS, K73706YS, K73974YS   |
| McCauley | 3AF34C503/L80HA-4        | 788518        | GA089, K78973, K78741          |
| Hartzell | PHC-C3YF-2UF/FC7663-2R   | EB662         | E6266, E4316, E6328            |
| Hartzell | PHC-C3YF-2UF/FC7663B-2R  | EB72          | E4364, E6222, E4337            |
| McCauley | D3A32C90R/S82NC-2        | 89112         | GE271, GE277, GE285            |
| McCauley | 1A103/TCM6958            | R776369       | N/A                            |
| Hartzell | HC-C2YR-1BF/F8467-7R     | CH18373       | F31059, F31720                 |
| Hartzell | HC-82VK-1D/V8433-7       | 900G          | 110953, 112288                 |
| Hartzell | HC-C3YF-1RF/F8468A-8R    | EC1067A       | H51210, H51211, H51215         |
| McCauley | 1C160DTM7557M1           | 727823        | N/A                            |
| Hartzell | HC-C2YK-1BF/F8477-8R     | CH15424       | C80607, C80501                 |
| McCauley | 1A103TCM6958             | R771058       | N/A                            |
| Hartzell | HC-A2VK-2B/V8433-4       | Y1614         | A35224, A35237                 |
| Hartzell | HC-A2VF-2B/V8433-4       | Y1616         | A36219, A36189                 |
| McCauley | 1C160DTM7553             | 726123        | N/A                            |
| Hartzell | PHC-J3YF-1RF/F8468A-6R   | FP295A        | H67989, H67993, H67996         |
| Hartzell | PHC-C3YF-1RF/F8468A-6R   | EE1970A       | H68562, H68564, H68569         |
| McCauley | 3AF32C87-N1/S82NC-5.5    | 723600        | F29533YS, F30324YS, F30332YS   |
| McCauley | 3AF32C87-N1/S82NC-5.5    | 724317        | F28328YS, F30258YS, F30312YS   |
| McCauley | 2A34C22IB/90DHC-16E      | 851047        | FC203, FC221                   |
| McCauley | D2A34C508NO/S90AT-4      | 741675        | RB099YSC, QK018YSC             |
| Dowty    | R30613-82-F/7            | DRI/DRG497/82 | A13155, A137159, A137164       |
| McCauley | 3AF34C503/GL80HA-4       | 786467        | LF011, LF012, LF013            |
| McCauley | 1A103TCM6958             | R770374       | N/A                            |
| Hartzell | HC-B3TN-3/T10173AR-6Q    | BUA21026      | E98826-1, E95868-1, Foo969-1   |
| McCauley | 1C160DTM7557/M1          | DE-106        | N/A                            |
| Hartzell | HC-B3TN-3C/T10282N+4     | BUA21163      | JO2938, JO2942, JO2940         |
| Hartzell | HC-B3TN-3B/T10182N       | BU18780       | H48613, H48618, J12414         |
| McCauley | D3A34C404/G80VA-0        | 803170        | FF062, FF068, FF070            |
| McCauley | D3A34C404/80VA-0         | 778997        | RC011, RC014, RC014            |
| McCauley | D3A34C402/90DFA-10       | 801485        | B126323, B126318, B126218      |
| Hartzell | HC-C3YR-2LEUF/FJC7663-5R | CK1026        | E23750, E23759, E23510         |
| Hartzell | HC-C2YK-1BF/F8475D-4     | CH8700        | F98472, F98486                 |
| Hartzell | HC-B3TN-3DY/T10282       | BUA20879      | D27097, D21813, D5172          |
| Hartzell | HC-B3TN-3DY/T10282       | BUA20890      | F16981, E16919, E16918         |
| McCauley | D3A34C402/90DFA-10       | 950497        | 01141, 01153, 01083            |

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| McCauley | 2A34C201/90DA-2            | 791209   | B69348, 69356          |
| Hartzell | HC-A2VK-2C/V8433N-4        | U227     | JO8336, JO8339         |
| McCauley | D3A34C402/G90DFA-10        | 842385   | SA094, SE185, SE204    |
| Hartzell | HC-B3TN-3G/T10178N-3R      | BUA21335 | H57792, H57796, H57797 |
| Hartzell | HC-B3TN-3B/T10178-3R       | BUA31321 | H57789, H57790, H57794 |
| Hartzell | HC-B3TN-5E/T10178B-11      | BV3422   | D51734, D69696, D87649 |
| Hartzell | HC-12V20-7D/V8433          | 7998N    | 76310.76397            |
| Hartzell | HC-B3TN-3G/T10178-3R       | BUA21068 | F00085, F00087, F00057 |
| Hartzell | HC-B3TN-3G/T10178-3R       | BUA21053 | E95372, E95373, E95382 |
| McCauley | B2D34C220/80VHA-3.5        | 799412   | KJ134, KJ138           |
| McCauley | D2AF34C305A/L78BA-2        | 782159   | A77973, A77890         |
| McCauley | D2AF34C308/90DEA-12        | 777274   | B84040, B840089        |
| Hartzell | HC-C2YK-1BF/F766A-2        | CH30711A | F45556, H45563         |
| Hartzell | BHC-C2YF-1BF/F8459A-8R     | AM2111E  | D85275, D85296         |
| Hartzell | HC-B3TN-3B/T10173-11       | BU144718 | B304, B3224, B41396    |
| Hartzell | HC-E2YR-1BF/F8467-7R       | DK490E   | D28513, D28570         |
| Hartzell | HC-C2YK-1BF/F8468A-4       | CH30525  | J21887, J21888         |
| Hartzell | HC-C2YR-2CLUF/FJC7666A     | A732E    | J19413, J19416         |
| Hartzell | HC-C2YR-2CUF/FC7666A       | AU4746E  | J18563, J18565         |
| Hartzell | BHC-C2YF-2CHUF/FC8465-6    | AN6801   | C71673, C71843         |
| Hartzell | HC-C2YR-4CF/FC7666A-2      | AU9039B  | D26332, D36041         |
| McCauley | D2A34C58-NO/S90AT-10R      | 891352   | C31434YS, C31439YS     |
| McCauley | B3D36C424E/74SA-0          | 980938   | RL009, RL018, RL033    |
| Hartzell | HC-C2YK-1B/7666A-2         | CH7816   | B31634, B31726         |
| McCauley | B2D34C213/90DHA-16         | 791758   | B81880, B81967         |
| Hartzell | BHC-C2YF-2CKUF/FC8459-8R   | AN4677E  | D85789, D88070         |
| Hartzell | BHC-C2YF-2CKLUF/FJC8459-8R | AN4723E  | D54393, D54468         |
| Hartzell | HC-C2YK-1BF/F7666A-2       | CH26067E | C71239, C77362         |
| Hartzell | HC-E2YR-2RBS/8465-7R       | BP2898E  | B66455, B50309         |
| Hartzell | HC-C2YK-1BF/F7666A         | CH32547A | J19627, J19630         |
| Hartzell | HC-C2YK-1BF/F7666A-2       | CH21967  | D33767, D38675         |
| Hartzell | HC-C2YK-1BF/F8477-8R       | CH32079A | C71710, C76321         |
| Hartzell | HC-82VL02B/V7636D-4        | K1669N   | 102218, 102323         |
| Hartzell | HC-C2YK-1BF/F7666A-2       | CH22117  | J19306, J19311         |
| Hartzell | HC-C2YK-1BF/F8467-7R       | CH31709A | H79699, J09668         |
| Hartzell | HC-B3TN-5E/T10178-11R      | BVA6538  | F97227, F97228, F97229 |
| Hartzell | HC-B3TN-5E/T10178-11R      | BVA6556  | E42331, E43984         |
| Hartzell | HC-B3TN-5E/T10178B-11R     | BVA6714  | E21581, E21757, E46381 |
| Hartzell | HC-C2YK-1BF/F8477-2        | CH19463  | J16967, J16968         |
| Hartzell | HC-C2YR-1BF/F8477          | CH31734A | J02312, J02316         |
| Hartzell | HC-C2YR-1BF/F7666A-2       | CH22963  | J16760, J16763         |
| Hartzell | HC-82VL-2B/V7636D-4        | K3966    | A10527, A11041         |

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| McCauley | 3A32C76SM/S82NB-2        | 773214   | F75434YS, F76021YS, F76028YS   |
| Hartzell | HC-C2YK-1BF/F7666A       | CH17435  | J03181, J03188                 |
| Hartzell | BHC-J2YF-2CUF/FC8475-6R  | D224     | C30175, C38776                 |
| Hartzell | HC-A3VK-2A/V8433NB-2R    | BJ1493   | F57794, F57800, F57658         |
| Hartzell | HC-A3VK-2A/V8433NB-2R    | BJ1494   | F7804, F57795, F57803          |
| Hartzell | HC-E2YR-2RBSF/F8465-7R   | BP3955   | J14684, J14685                 |
| Hartzell | HC-E2YR-2RBSF/F8465-7R   | BP2907   | E94223, E94221                 |
| Hartzell | HC-B3TN-3B/T10173+1      | BUA20874 | E14417, E16043, E16079         |
| Hartzell | HC-82V20-1B/V10133D-3    | C269     | B42222, C62911                 |
| McCauley | D2A34C67/S76C-0          | 697784   | S76641YS, S79385YS             |
| Hartzell | HC-AV3K-2A/V833-2        | BJ-1383  | F92548, F92549, F92559         |
| Hartzell | HC-A3YK-2A/V8433-2       | BJ648    | F92545, F92553, F92555         |
| McCauley | 2A34C203/G90DCA-2        | 701425   | GF063, GF075                   |
| McCauley | 1C160/DTM7557M1          | 730489   | N/A                            |
| Hartzell | HC-B3TN-3D/T10178CN      | BUA21210 | H91940, H91942, H91943         |
| Hartzell | HC-B3TN-3B/T10173B-8     | BUA21406 | E14213, E14214, E14215         |
| Hartzell | HC-B3TN-5E/T10178B-11R   | BVA6714  | E21581, E21757, E46381         |
| Hartzell | HC-B3TN-3C/T10178B-8R    | BU12751  | E82556, E82966, F84465         |
| Hartzell | HC-B3TN-3D/T10282        | BU14056  | H23018, H23813, H23812         |
| Hartzell | HC-B3TN-5FL/LT10673B     | BV4209   | F18026, F11776, F11982         |
| Hartzell | HC-B3TN-5FL/LY10673      | BV4217   | F11983, F18047, F18138         |
| McCauley | B2D32C417D/82NRD-7       | 902632   | KG286, KG325, KG351            |
| Hartzell | HC-B3TN-3DY/T10282HB     | BUA20718 | C51380, C60626, C57339         |
| Hartzell | HC-B3TN-3N/T10178-3R     | BU15573  | E35977, F35535, F35044         |
| McCauley | 3AF32C512B/82NEA-5.5     | 832340   | DG016, DH003, DH018            |
| McCauley | 3AF32C512B/82NEA-5.5     | 832336   | CE092, CE095, CE154            |
| McCauley | 4NFR34C764AB/94LMB-0     | 890970   | JC001, JA029, JA030            |
| Hartzell | HC-D4N-3C/D9290K         | FY273A   | F83292, F83299, F83306, F84990 |
| McCauley | 4HFR34C764AB/94LMB-0     | 890884   | JC005, JC015, JC012, JA069     |
| McCauley | 2A34C216/90DHB-16E       | 850106   | E1526, E1554                   |
| McCauley | 4HFR34C764B/94LMB-0      | 900189   | JE009, JE021, JE011, JA064     |
| Hartzell | HC-F2YR-1F/F8468A-4R     | CM847    | HO2922, F68842                 |
| McCauley | B2D34C214/90DHB-8        | 7911000  | B85353, B87301                 |
| Hartzell | HC-E3YR-2ATF/FC8468-6R   | DJ10136A | C53103, C53470, C56735         |
| Hartzell | HC-E3YR-2ALTF/FJC8468-6R | DJ8363A  | F38917, F38932, F38929         |
| Hartzell | HC-B3TN-3G/T10178-3R     | BU11672  | F11409, F11412, F11462         |
| Hartzell | HC-B3TN-3G/T10178-3R     | BU10480  | F10664, F10671, F10698         |
| Hartzell | HC-D4NC-3C/D9290K        | FY233A   | F78041, F78040, F78050, F78055 |
| Hartzell | HC-D4N-3C/D9290          | FY196A   | F77990, F77991, F77992, F77993 |
| McCauley | 4NFR34C76AAB/94LMB-0     | 922701   | R1073, JA050, JA048, JA072     |
| McCauley | 1A103TCM6958             | RHJ017   | N/A                            |
| McCauley | D3A32C77FLM/S82NK-2      | 681910   | C34847YS, C35188YS, C35427YS   |

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| McCauley | 4BFR34C764B/94LMB-0      | 900181   | JK002, JK024, JK018, JK021   |
| Hartzell | HC-C2YK-1BF/F766A-3      | AW67     | C10402, F8233                |
| Hartzell | PHC-C3YF-1RF/F8468A-6R   | EE2455A  | H96059, H96058, H96050       |
| McCauley | 2A34C203/90DCA-8         | 753890   | K47115, K47140               |
| Hartzell | HC-B3TN-3D/T10282        | BU8101   | F37642, F37651, F37658       |
| McCauley | B2D34C213/90DHA-16       | 782032   | B86470, B86509               |
| McCauley | 1C160DTM7552             | 728278   | N/A                          |
| Hartzell | HC-F2YR-1BF/F8468A-4     | CM776    | F22275, F22256               |
| Hartzell | HC-C2YR-1RF/F7666A       | CH27444  | F48987, F49003               |
| Hartzell | HC-B3TN-3B/T10173-8R     | BU11606  | E14450, E14457, E11178       |
| McCauley | 4NFR34C764AB/94LMB-0     | 890968   | JC014, JC062, JA065, JC070   |
| Hartzell | HC-B3TN-3B/T10173+3      | BUA20865 | E49626, E95771, E98741       |
| Hartzell | HC-B3TN-3B/T10173+1      | BUA20868 | J05623, J05627, J05634       |
| McCauley | 3AF32C93NR/S82NC-5.5     | 740285   | HD021YS, HD030YS, FG118YS    |
| McCauley | 3AFC93NR/S82NC-5.5       | 861830   | HD010YS, HD008YS, HD012YS    |
| McCauley | 4HFR34C764AB/94LMB-0     | 890967   | JC036, JC032, JC053, JC046   |
| Hartzell | HC-C2YK-1B/7666A-2       | 1900     | A86266, A86340               |
| Hartzell | PHC-J3YF-2UF/FC8468-6R   | ED969    | D19171, D24995, D79957       |
| McCauley | 2A34C201/90DA-8          | 734978   | K23575, K23616               |
| Hartzell | HC-B3TN-3B/T10173-8R     | BUA20913 | H19461, H19469, H19474       |
| McCauley | B2D34C220/80VHA-3.5      | 807539   | K134600, K134637             |
| McCauley | 4HFR34C764AB/94LMB-0     | 890965   | JC043, JC026, JC009, JC049   |
| McCauley | 4HFR34C764-B/94LMB-0     | 900183   | JA038, JC041, JC052, JC072   |
| Hartzell | HC-B3TF-7A/T10173-11R    | EX340X   | F60188, F60196, F60329       |
| Hartzell | HC-C3YR-2UF/FC7663-5     | CK3030   | E25181, E25092, E25144       |
| Hartzell | HC-C2YK-1BF/F7666A-2     | CH5980   | C97036, D2437                |
| Hartzell | HC-B3TN-3B/T10173N+1     | BUA21120 | J165538, J16539, J16540      |
| Hartzell | HC-B3TN-3B/T10173+1      | BUA21117 | J10455, J10456, J10464       |
| McCauley | 3A32C406C/82NDB-2        | 870694   | HD087, HD088, HD090          |
| Hartzell | HC-B3MN-3/M10083K        | BU5520   | 9820, 9380, 9366             |
| Hartzell | HC-B3TN-3D/T10282B       | BUA21509 | C97670, D7307, D7349         |
| McCauley | D334C402C/90DFA-10       | 911076   | LB079, LB080, LB058          |
| McCauley | B2D34C53B-0/S74E-0       | 890397   | A10444YS, A10452YS           |
| Hartzell | HC-E3YR-2ATF/FC8468-6R   | DJ8587A  | F58805, F58814, F58821       |
| McCauley | 2A34C66NP/S90AT-8        | 714721   | K97045YS, K97290YS           |
| McCauley | 3AF32C505C/G82NEA-5.5    | 941105   | NL137, NK140, NL224          |
| McCauley | 3AF32C87NR/S82NC-5.5     | 7810005  | F89985YS, K91095YS, K91232YS |
| McCauley | 3AF32C87NR/S82NC-5.5     | 784117   | K86703YS, K8672YS, K86744YS  |
| Hartzell | HC-E3YR-2ALTF/FTC8468-6R | DJ10203A | D75639, F38923, D92737       |
| Hartzell | HC-E3YR-2ATF/FC8468-6R   | DJ8126A  | D79885, D810098, D79958      |
| Hartzell | HC-E3YR-2ATF/FC8468-6R   | DJ8400A  | H24060, H24071, H24070       |
| Hartzell | HC-E3YR-2ATF/FC8468B-6R  | DJ8100A  | F09903, F09917, F12558       |

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| Hartzell         | HC-E3YR-2ATF/FC8468-6R   | DJ8170A                  | E26688, E5661, E26389        |
| Hartzell         | HC-E3YR-2ATF/FC8468-6R   | DJ10206A                 | E59117, E59099, E59761       |
| McCauley         | B3D32C407B/G82NDA-3      | 810830                   | C1285, C1309, CA450          |
| Hartzell         | HC-E3YR-2AT/C8468-6R     | DJ11610A                 | B30541, B37735, B66853       |
| McCauley         | B2D34C214B/90DHB-16E     | 813282                   | BF090, BF104                 |
| Hartzell         | HC-E3YR-2ATF/FJC8468-6R  | DJ8180A                  | C28333, D86043, E31516       |
| McCauley         | D3A32C908R/82NC-2        | 734396                   | H1251YS, H1278YS, H1310YS    |
| Hartzell         | HC-E3YR-2ATF/FC8468-6R   | DJ7892                   | J0568, J06571, J06572        |
| Hartzell         | HC-E3YR-2ATF/FC8468-6R   | DJ8069A0                 | H32923, H32921, H32919       |
| Hartzell         | HC-B3TN-5C/T10178B-13R   | BV3480                   | F03866, F03534, F03731       |
| Hartzell         | HC-B3TN-5C/T10178B-13R   | BV3325                   | F13790, F13530, F13780       |
| Hartzell         | HC-C2YR-1BF/F8475D-4     | CH2134                   | C86801, C81980               |
| McCauley         | D2A36C33/S90M-4          | 62614                    | A9457YS, A4959YS             |
| Hartzell         | HC-E3YR-2ALTF/FJC8468-6R | DJ10620A                 | H36237, H36239, H36241       |
| Hartzell         | HC-E3YR-2ATF/FC8468B06R  | DJ9455A                  | D94044, E1020, E1907         |
| Hartzell         | HC-E2YR-1BF/F8467-7R     | DK364                    | C81054, D64837               |
| Hartzell         | HC-B3TN-3B/T10178NB-8R   | GB169                    | H45270, H45266, H45271       |
| Hartzell         | HC-A2VK-1L/LV9333H-5     | U227                     | 102488, 102499               |
| Hartzell         | HC-B3TN-3C/T10282N+4     | BUA21164                 | J17961, J17953, J17954       |
| McCauley         | B2D34C219/90DHB-8        | 794749                   | B109082, B85428              |
| Hartzell         | HC-B3TN-3C/T10282        | BU10123                  | F10519, F10520, F10528       |
| Hartzell         | HC-B3TN-3C/T10282N+4     | BU14198                  | J04754, J04839, J04847       |
| Hartzell         | HC-B3TN-3C/T10282        | BU17816                  | H08048, H08057               |
| Hartzell         | HC-B3TN-5M/T10282N+4     | BV4500                   | H71037, H71029, H71080       |
| McCauley         | 4HFR345C653G/L106FA-0    | 95007                    | OL010, OL013, OL014, OL021   |
| <b>1997 MAKE</b> | <b>MODEL</b>             | <b>HUB SERIAL NUMBER</b> | <b>BLADE SERIAL NUMBER</b>   |
| Hartell          | HC-B3Z30-2R/9349-6.5     | AB674                    | A44137, A44154, A44158       |
| McCauley         | D3A32C88M/82NC-2         | 790399                   | K90709YS, K92614YS, K92662YS |
| Hartzell         | HC-E2YR-2RBSF/F8465-7R   | 238                      | F34748, F34724               |
| Hartzell         | HC-E2YR-2RBSF/F8465-7R   | BP9019                   | D91822, B91817               |
| McCauley         | 2A34C66ND/S90AT-8        | 78568                    | K98844YS, K96688YS           |
| Hartzell         | BHC-C2YF-2CHUF/FC8465-6  | AN4639                   | C10723, C71690               |
| McCauley         | 2A34C203/90DCA-8         | 861915                   | GF247, GF518                 |
| Hartzell         | HC-C2YK-2CLUF/FJC7666A-2 | AU123                    | E29028, E17766               |
| Hartzell         | HC-C2YK-2CGFS/FC7666A-2  | AU3543                   | C55548, C49431               |
| Hartzell         | PHC-J3YF-2UF/FC7663-2R   | ED651                    | C88136, C88149, C88338       |
| McCauley         | 3AF32C505/82NEA5.5       | 950672                   | OI309, OI283, OI313          |
| Hartzell         | HC-B3TN-3B/T10173B-3     | BU18332                  | JO4699, JO4703, JO4702       |
| Hartzell         | HC-B3MN-3/M10083         | GB110                    | 9369, 9368, 9374             |
| McCauley         | D334C402/90DFA-10        | 807750                   | B1450, F1517, B103987        |



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| Hartzell                 | HC-E3YR-1RF/F7673DR     | FM923A  | F16910, F14954, F16900        |
| McCauley                 | D3A34C401/90DFA-10      | 797467  | B118592, B118567, B118004     |
| Hartzell                 | HC-A3VF-2A/V7637D-2C    | CC220   | C28668, C39113, C32674        |
| McCauley                 | 3AF32C505/82NEA-5.5     | 911390  | FG060, LE082, LE093           |
| Hartzell                 | HC-B3Z20-2/T0151-8R     | 635J    | A81005, A81010, A80988        |
| Hartzell                 | HC-E2YR-2RBSF/F8465-7R  | BP3986  | F47889, F47895                |
| Hartzell                 | HC-E2YR-2RBSF/F8465-7R  | 2675    | H37456, H37451                |
| McCauley                 | 2A34C66OP/S90AT-8       | 821327  | BJ671YS, BD114YS              |
| McCauley                 | D2A34C58O/S90AT08       | 80433   | K98970YS, K98998YS            |
| McCauley                 | 2A34C66NP/S90AT-8       | 767699  | C63812YS, C64321YS            |
| McCauley                 | 3A32C504/82NEA-5.5      | 820875  | AH123, EK153, BO539           |
| McCauley                 | B2D34C220B/80VHA-35     | 941370  | OC003, OC014                  |
| Hartzell                 | HC-C2YK-2CUF/FC8477A-6  | AU7811  | F93157, F93163                |
| Hartzell                 | HC-C2YK-2CUF/FC8477A-6  | AU7810  | F93156, F93162                |
| McCauley                 | 3AF32C87NR/S82NC-2      | 800518  | K88312YS, F89653YS            |
| McCauley                 | B3D34C419/82NHA-5       | 951333  | JF025, JF027, JF028           |
| McCauley                 | 3AF32C87NR/S82NC-5.5    | 725694  | JJ013YS, JJ032YS, JJ035YS     |
| Hartzell                 | HC-C2YK-1BF/F7666A-2    | CH22685 | D23374, D22968                |
| McCauley                 | D3A36C410/80VMB-0       | 842343  | E1002, E1039, E1218           |
| McCauley                 | 1C160DTM/7557           | MK010   | N/A                           |
| McCauley<br>(Sensenich?) | 72CK56-0-54             | K6945   | N/A                           |
| Hartzell                 | HC-C2YK-2UF/FC7666A-4   | AU2300  | F33232, F33231                |
| Hartzell                 | HC-C3YK-2CUF/FC7666A-4  | AU7410  | F33924, F33923                |
| McCauley                 | 3AF34C92P/90LF-0        | 950028  | HJ076YS, K107922YS, K107923YS |
| Hartzell                 | HC-E3YR-2ATF/FC8468B-6R | DJ8581A | D6468, D8121, D6448           |
| Hartzell                 | HC-C2YK-2CUF/FC7666A-4  | AU5241  | D57123, D57118                |
| Hartzell                 | HC-B3TN-3M/T10173K-8    | BU14444 | F10254, F10240, F10293        |
| Hartzell                 | HC-B3TN-3M/T10173K-8    | BU14443 | F10262, F10359, F10328        |
| Hartzell                 | HC-E3YR-2RBSF/F8465-7R  | 2362    | F96582, F96593                |
| McCauley                 | 1C160DTM7557            | 81124   | N/A                           |
| McCauley                 | D3A34C402/90DFA-10      | 803523  | B126521, B129691, B129669     |
| McCauley                 | 1A1020CM6948            | K20471  | N/A                           |
| McCauley                 | 3AF32C87NI/82NC-5.5     | 763725  | F4183YS, F4192YS, F4195YS     |
| McCauley                 | 3AF32C87/82NC05.5       | 745034  | F47857YS, F48048YS, F48108YS  |
| McCauley                 | 3A32C88M/82NC-2         | 725830  | F31738YS, F31683YS            |
| McCauley                 | 2A34C505NO/S90AT-8      | 724110  | C3768YS, C3783YS              |
| McCauley                 | C2A34C204/90DCB-8       | 76764   | QJ060, Q4125                  |
| McCauley                 | 3A32C406G/82NDB-4       | 831481  | CF057, DF071, DF041           |
| McCauley                 | 2A34C203B/90DCA-8       | 861211  | GF232, GF249                  |
| McCauley                 | 3A32C76MR/S82NB-2       | 744547  | F1433YS, F14298YS, GB249YS    |
| McCauley                 | 1A101DCM6950            | G1327   | N/A                           |

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| McCauley                 | C2A34C204/90DCB-8        | 796940  | B65240, PB69714                        |
| Hartzell                 | HC-C2YK-1B/8468-6R       | CH21268 | B62427, B971513                        |
| McCauley                 | B2D34C207/78TCA-0        | 771063  | B57243, B58057                         |
| Hartzell                 | HC-E2YR-1BF/F8477-4      | DK1179  | D93708, D93637                         |
| McCauley                 | D2AF34C308/G90DEA -12    | 798662  | IK043, IK051                           |
| McCauley<br>(Sensenich?) | 74DM6-0-60               | A48231  | N/A                                    |
| McCauley                 | C2A34C204/90DCB-8        | 7607055 | K58792, K59809                         |
| McCauley                 | B2D34C220/80VHA -3.5     | 801221  | K120295, K123997                       |
| McCauley                 | D3A34C402C/G90DFA -10    | 911070  | LC031, LC055, KL117                    |
| McCauley                 | B2D34C207A/78TCA-0       | 802274  | B123825, B123835                       |
| McCauley                 | D3A34C402/90DFA -10      | 814384  | BF1181, BF1187, BF1634                 |
| McCauley<br>(Sensenich?) | M74DM-0-58               | K5673   | N/A                                    |
| McCauley                 | 2A34C203/90DCA -8        | 757648  | K92240, K52352                         |
| McCauley                 | 3A32C76SM/82NB-2         | 756366  | K59450YS, K59661YS, K59709YS           |
| Hartzell                 | PHC-C3YF-1RF/F7663-2R    | EE1244  | HE1996, H52349, H52351                 |
| McCauley                 | D3A34C402A/90DFA -10     | 784076  | B123640, B123139, B121617              |
| Hartzell                 | HC-C2YR-1BF/F7663A-2     | CH14158 | F47181, F47198                         |
| McCauley                 | D3A34C402/90DFA -10      | 770873  | B106898, B106887, B106897              |
| McCauley                 | 2AF34C55NO/78FF-0        | 726503  | C68057YS, C68082YS                     |
| McCauley                 | 2AF34C55NO/578FF-0       | 728604  | C67584, C67605                         |
| McCauley                 | D2AF34C59LM/76C-0        | 694897  | S74313YS, S74424YS                     |
| Hartzell                 | HC-C3YR-4BF/FC7663-4     | DW382   | C12036, C12098                         |
| Hartzell                 | PHC-J3YF-2UF/FC7663-2R   | EB387   | D61743, D74892, D74978                 |
| McCauley                 | 3AF32C87N/82NC-5.5       | 7710763 | K80088YS, K80904YS, K80704YS           |
| McCauley                 | B2D34C211/82PCA-6        | 777198  | B77593, B77615                         |
| McCauley                 | 1A103TCM6953             | R770463 | N/A                                    |
| McCauley                 | B2D34C214-B/90HB-16E     | 952229  | PB221, PB202                           |
| McCauley                 | 2A34C203B/90DCA -8       | 882155  | IG124, IG144                           |
| Hartzell                 | HC-C3YR-1RF/F7663R       | DY1246  | E84043, EB4018, E81999                 |
| McCauley                 | 1A103TCM6958             | 774748  | N/A                                    |
| Hartzell                 | HC-B5MP-3A/M10282A+6     | EV546   | D46514, D28425, D39993, D43587, D44451 |
| Hartzell                 | HC-F3YR-2UF, /FC7479B-2R | DA1454  | E71805, E71807, E71809                 |
| Hartzell                 | HC-F3YR-2UF/FC7479B-2R   | DA1456  | E61952, E66294, E66295                 |
| McCauley                 | 3A34C406/G82NDB-2        | 816483  | BH307, BJ044, BJ077                    |
| Hartzell                 | HC-82VL-2C/7636D-4       | K414N   | 113388, 113409                         |
| Hartzell                 | HC-82XL-2C/7636D-4       | K3188N  | 112382, 111575                         |
| McCauley                 | 1A170EFA7662             | P73489  | N/A                                    |
| McCauley                 | 1A200HFA8041             | 106703  | N/A                                    |
| McCauley<br>(Sensenich?) | 74DMG-0-58               | K31912  | N/A                                    |



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| McCauley | 2D36C111/78KM-4        | 59790          | C64533YS, C65388YS              |
| Hartzell | HC-C2YK-2CEGUF/FC7666A | AU2374         | C20484, C27334                  |
| McCauley | 3AF32C93NR/82NC-5.5    | 760964         | CJ017YS, K101203YS, CJ025YS     |
| McCauley | 1C160DTM7557           | 728924         | N/A                             |
| McCauley | 3AF32C87R/82NC-5.5     | 950703         | OI293, OI305, OI312             |
| McCauley | 3AF32C87R/82NC-5.5     | 910490         | F28222YS, F41388YS, F45117YS    |
| McCauley | 3AF32C504/82NEA-5.5    | 806164         | QB151, QB155, QG110             |
| McCauley | C2A34C203/90DCA-14     | 831840         | PB119301, CD053                 |
| McCauley | 3AF32C504/82NBA-5.5    | 912736         | L1018, L1036, EJ196             |
| Hartzell | HC-M2YR-2CEUF/FC7666A  | FB352          | H95582, H95587                  |
| McCauley | 1A101CM6848            | G8139          | N/A                             |
| McCauley | 3AF32C93NR/82NC-5.5    | 970464         | F30278YS, F30329YS, F30335YS    |
| McCauley | 3AF32C93NR/82NC-5.5    | 815749         | K103728YS, K104043YS, K104063YS |
| McCauley | 3AF32C93NR/82NC-5.5    | 710930         | K99844YS, K100255YS, K100760YS  |
| McCauley | 3AF32C87NR/S82NC-5.5   | 832514         | K92439YS, K92455YS, K92451YS    |
| McCauley | 3AF32C505/82NEA-5.5    | 815646         | GH328, GH329, GH339             |
| McCauley | 3AF32C87NR/82NC-5.5    | 795913         | F90174YS, F89670YS, F90375YS    |
| Hartzell | HC-83V20-2C1/V9333C    | D2049          | A22650, A22656, A22702          |
| McCauley | 1A101DCM6946           | G8164          | N/A                             |
| McCauley | C2A34C204/90DCB-8      | 777687         | B76292, B77840                  |
| McCauley | D2AF34C306/78CAA-0     | 737808         | K73818, K73828                  |
| Hartzell | HC-C2YK-2CUF/FC8477A-4 | AU8068         | H31626, H31621                  |
| Hartzell | HC-C2YK-2CUF/FC8477A-4 | AU8634A        | F24782, F24807                  |
| McCauley | 1A100MCM6950           | 38630          | N/A                             |
| Hartzell | HC-92ZK-8D/W8947-12A   | 740L           | B74631, B80519                  |
| Hartzell | HC-D4N-3C/D9290K       | FY670          | F78042, F82595, F81967, F81962  |
| Hartzell | HC-D4M-3C/D9290K       | FY511          | F78046, F78059, F78048, F78047  |
| Hartzell | HC-B3TN-3B/T10174H     | BU11669        | H38282, H38277, H38283          |
| McCauley | 2A36C66NO/S90AT-0      | 773396         | C54621YS, C54612YS              |
| Hartzell | HC-B4MP-3B/M10476K     | FWA2333        | F60562, F60568, F60541, F60550  |
| Hartzell | HC-B4MP-3B/M10476K     | FWA2331        | F60533, F60571, F60560, F60552  |
| McCauley | B2D34C214-B/G90DHB-16E | 881602         | FF113, IF120                    |
| Hartzell | HC-83V20-2C/V9333C-3   | D1354N         | C17123, A32385, C13279          |
| Hartzell | HC-C2YK-1BF/F8467-7R   | CH1957         | B3317, B3288                    |
| McCauley | B3D32C414/82NDA-4      | 951422         | OK206, OK216, OK233             |
| Hartzell | HC-F4YR-1RF/F7663DB    | FX4            | F63919, F63922, F63915, F63916  |
| McCauley | D2A34C58-0/90AT-8      | 779407         | KH073YS, KH091YS                |
| McCauley | 3A32406/G82NOB-2       | 891806         | HJ038, JJ024, JJ021             |
| McCauley | 2A34C203/90DCA-8       | K49131, K50573 | 755931                          |
| McCauley | D2A34C58-0/90AT-4      | 784248         | K89401YS, K89490YS              |
| McCauley | 3A32C76SALMR/S82NB-2   | 672636         | EJ104YS, EJ102YS, EH306YS       |
| McCauley | D3A34C403/80VA-0       | 810009         | B139733, B139736, B137591       |

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| McCauley | C3D36415C/82NGA -8        | 912296   | LI330, LI335, LI353            |
| Hartzell | HC-E2YR-2RBSF/F8465-7R    | 1112     | D73182, D78681                 |
| Hartzell | HC-E2YK-2RBSF/F8465-7R    | BP5928   | H46422, H46421                 |
| Hartzell | HC-B3TN-5FL/LT10673B      | BVA6202  | F13259, F13265, F13267         |
| Hartzell | HC-B3TN-5FL/LT10673B      | BVA6151  | F11991, F13276, F18022         |
| McCauley | 3GFR34C601D/B93JA-3       | 901024   | KB025, KB032, KB035            |
| Hartzell | HC-B3TN-3D/T10282         | BU16624  | F87356, F87368, F33595         |
| McCauley | D3A34C401C/90DFA-10       | 921250   | MA007, MA068, MA085            |
| McCauley | 3A32C76UOR/S82NC-2        | 890562   | K97500YS, K97511YS, K97524YS   |
| McCauley | C2A34C204/90DCB-8         | 789397   | K58883, K58891                 |
| McCauley | 3AF32C504C/82NEA -5.5     | 901302   | KDH25, KDH36, KD450            |
| McCauley | 3A32C406B/82NDB-2         | 842734   | FL082, FL083, FL091            |
| Hartzell | HC-A2V20-4AI/V8833-4      | AE190    | C8898Y, C2035                  |
| Hartzell | HC-E3YR-2ALTF/FJC8468B-6R | DJ11278A | E96864, E96863, E96861         |
| Hartzell | HC-E3YR-2ATF/FC8468B-6R   | DJ1277A  | E94065, E94068, E92708         |
| McCauley | D3A34C402/90DFA-10        | 785364   | B92998, B93814, B93837         |
| McCauley | 3AF32C87NR/S82NC-5.5      | 794315   | K95952YS, K95969YS, K95965YS   |
| Hartzell | PHC-C3YF-2UF/FC7663-2R    | EB1834   | F21737, F16010, F14996         |
| Hartzell | PHC-C3YF-2UF/FC7663-2R    | E781     | F14397, F14307, F14378         |
| McCauley | 3AF32C87N/82NC-5.5        | 790631   | K93913YS, K93938YS, K93942YS   |
| McCauley | 3FF32C501A/90UMB-0        | 774217   | K110452, K110446, K110462      |
| McCauley | 3FF32C501A/90UMB-0        | 776736   | K73909, K76058, K76151         |
| McCauley | D3A32C90R/S82NC-2         | 890694   | IL004YS, IL036YS, JA214YS      |
| McCauley | D3A43C404/80VA -0         | 795732   | GE189, GI158, GI161            |
| Hartzell | PHC-C3YF-1RF/F8468A-8R    | EC1102   | H57270, H57272, H57267         |
| McCauley | 2A34C203/90DCA-8          | 761977   | K56302, K56274                 |
| McCauley | 2A34C66NP/90AT-8          | 766376   | K61518YS, K61528YS             |
| McCauley | D3A34C401C/G90DFA-10      | 930181   | MG059, MJ100, MJ114            |
| McCauley | D3A34C401C/90DFA-10       | 870815   | HC073, HC097, HC123            |
| McCauley | D3A43C401B/G90DFA-10      | 821901   | CA404, CA663, CD435            |
| McCauley | 2A34C66-0/90AT-8          | 799991   | K118432YS, K12221YS            |
| McCauley | C2A34C204/90DCB-8         | 799099   | B1296, BE935                   |
| Hartzell | HC-B4TN-5GL/LT10282NB-5.3 | CD3074   | H44619, H44604, H44591, H44590 |
| Hartzell | HC-B4TN-5GL/LT10282NB-5.3 | CDA3089  | H44603, H44602, H44605         |
| McCauley | D3A34C401/90FA-10         | 792382   | FK617, GH131, GH155            |
| McCauley | D3A34C404B/G80VA-0        | 840013   | DF088, DF107, DF120            |
| McCauley | D3A34C401-0/90DFA-10      | 901970   | B100440, B100592, B100570      |
| Hartzell | HC-C3YF-1BF/F8468A-8R     | EC1086A  | H56207, H56205, H56203         |
| Hartzell | PHC-C3YF-1RF/F8468A-6R    | EE964    | E88059, E88035, E88037         |
| Hartzell | HC-E2YR-2RBSF/F8465-7R    | 3912     | F54008, E50115                 |
| McCauley | D2A34C402B/90DFA-10       | 850281   | EJ436, EJ349, EJ497            |
| McCauley | D3A34C402/90DFA-10        | 782210   | B89257, B90648, B90639         |

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| McCauley                 | D3A34C402/90DFA-10       | 794274  | B111615, B111621, B111650      |
| McCauley                 | 3AF32C505/82NEA-7        | 812226  | PA1167, PA1105, PA1124         |
| McCauley                 | 3AF32C505/82NEA-5.5      | 805529  | PA1335, PA1008, PAH424         |
| McCauley<br>(Sensenich?) | 72CK6-0-52               | K6496   | N/A                            |
| Hartzell                 | HC-C2YK-2CUF/FC8477A-4   | AU5046  | D52917, D52919                 |
| McCauley                 | 2A34C203/90DCA-14        | 800728  | B124176, B124310               |
| McCauley                 | 3AF34C92NFR/90LF-0       | 712882  | K94672YS, K94671YS, K94680YS   |
| McCauley                 | 3AF34C92NP/90LFO         | 710930  | C94829YS, C94826YS, C94835YS   |
| Hartzell                 | HC-E3YR-1RF/F7673DR      | FM787A  | F34525, F34520, F34535         |
| McCauley                 | 2A36C23D6/S84B-0         | 910248  | KH029YSSC, KE073YSC            |
| McCauley                 | D3A34C402/G90DFA-10      | 841978  | B106368, B129729, B133112      |
| McCauley                 | D3A34C402/G90DFA-10      | 787312  | ME108, ME142, ME150            |
| McCauley                 | 1C172TM7653              | E8749   | N/A                            |
| Hartzell                 | HC-C4YR-2F/FC7663DB-6Q   | FH579   | H34064, H34045, H34046, H34059 |
| Hartzell                 | HC-C4YR-2F/FC7663DB-6Q   | FH578   | H32905, H32991, H32910, H32901 |
| Hartzell                 | PHC-J3YF-1RF/F7663B-2Q   | FP52    | E99106, F43765                 |
| McCauley                 | D3A34C402C/90DFA-10      | 880745  | IA046, IA028, HL092            |
| McCauley                 | 1A103/TCM6958            | RBF032  | N/A                            |
| McCauley                 | 1C160DTM7553             | 727290  | N/A                            |
| McCauley                 | S90M-2                   | 621056  | C45560YS, C45674YS             |
| McCauley                 | 76C-0                    | 694897  | S74313YS, S74424YS             |
| Hartzell                 | HC-A2VK-1D/V8433-7       | J1162   | A8205, A14658                  |
| Hartzell                 | HC-C2YK-1BF/F8477-2      | CH6351  | C83541, C835574                |
| McCauley                 | D3A34C403B/G80VA-0       | 814584  | HA156, HB042, HB043            |
| Hartzell                 | HC-B3TN-3N/T10178B-2R    | BU14234 | FO8135, FO8545, FO8630         |
| Hartzell                 | HC-12V20-7D/V8433        | 7398N   | J08058, J08062                 |
| Hartzell                 | HC-AV20-4AI/V8833N-4     | AK1582  | E30943, E30947                 |
| McCauley                 | 1A90CF7445               | 13457   | N/A                            |
| Hartzell                 | HC-E4N-3/E90835K         | HH47    | H39171, H39180, H39178, H39177 |
| Hartzell                 | PHC-J3YF-2UF/FC7663B-2R  | ED2693  | E8442, E84472, E81243          |
| Hartzell                 | PHC-J3YF-2UF/FC7663-2R   | ED2697  | E84471, E81267, E84481         |
| McCauley                 | 2A34C29/90M-8            | 621034  | C79866YS, A4784YS              |
| Hartzell                 | HC-B3TN-3B/T10173+1      | BU20498 | F27253, F27266, F27254         |
| Hartzell                 | HC-E3YR-2ALTF/FJC8368-6R | DJ9554A | F01674, E92984, EA2989         |
| Hartzell                 | HC-B3TN-3D/T10282        | BU9932  | H33909, H33896, H33918         |
| Hartzell                 | HC-B3TN-2B/T10173+1      | BU13591 | F42570, F42633, F42637         |
| McCauley                 | 2D34C8/78FB-1.5          | 694569  | K31314YS, C52925YS             |
| McCauley                 | 3AF34C74-R/S90LF-3       | 414450  | B22144YS, B22147YS, B22169YS   |
| McCauley                 | D334C404/80VA-0          | 814094  | B11691, B117050, B95774        |
| Hartzell                 | PHC-C3YF-2UF/FC7663-2R   | EB1659  | F04454, F07085, F07094         |
| Hartzell                 | PHC-C3YF-2UF/FC7663-2R   | EB1657  | F07111, F07097, F07078         |

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| Hartzell                 | BHC-J2YF-2UF/FC8475-6R   | D2628    | C8094, C37237              |
| Hartzell                 | HC-E2YR-2RBS/8465-7R     | BP6847   | B5565, B4709               |
| McCauley                 | 2AF34C55JMO/S78FF-0      | 726998   | C35541YS, C35501YS         |
| Hartzell                 | HC-E3YR-2ALTF/FJC8468-6R | DJ9444A  | E71393, E71416, E71431     |
| Hartzell                 | HC-C2YK-1B/8468A-4       | CH16878  | B50874, B50879             |
| McCauley                 | 2AF34C55LMO/S78FF-0      | 695630   | B11571YS, B11594YS         |
| Hartzell                 | HC-E2YR-2ATF/FC8468-6R   | DJ11771A | E94843, E94853, E94863     |
| McCauley                 | 3AF32C87NR/S82NC-8       | 750211   | IA250YS, HK156YS           |
| McCauley                 | 1B906842                 | 21254    | N/A                        |
| McCauley<br>(Sensenich?) | 74DM-0-52                | 19412    | N/A                        |
| McCauley<br>(Sensenich?) | 74DM6-2-58               | K28605   | N/A                        |
| McCauley<br>(Sensenich?) | 76EM8514-9-60            | 26837K   | N/A                        |
| McCauley<br>(Sensenich?) | M74DM-1-58               | K10484   | N/A                        |
| McCauley<br>(Sensenich?) | 72CK-0-52                | K3243    | N/A                        |
| McCauley                 | 1C172MTM7653             | E13941   | N/A                        |
| McCauley                 | 1C160DTM7557             | 735191   | N/A                        |
| McCauley                 | 72CK-0-56                | K1087    | N/A                        |
| McCauley                 | 76EM8S5-0-60             | 15225K   | N/A                        |
| McCauley                 | 76EM8S14-0-60            | 288543K  | N/A                        |
| McCauley                 | 1C160DTM7557             | 7292262  | N/A                        |
| McCauley                 | 1A170EFA7556             | P80546   | N/A                        |
| McCauley                 | 1A105SCM7153             | G8512    | N/A                        |
| McCauley                 | 1C172EM7653              | 75727    | N/A                        |
| Hartzell                 | HC-C2YK-1BF/F7666A       | CH22714  | H95226, H95229             |
| McCauley                 | 1C172BTM7359             | 730057   | N/A                        |
| Hartzell                 | HC-E3YR-2ATF/FC8468B-2R  | DJ586    | B72195, B70839, B67858     |
| Hartzell                 | HC-E3YR-2ATF/FC8468B-6R  | DJ1184A  | B72479, B72456, B72423     |
| Hartzell                 | HC-C3YK-1RF/F7663-2R     | DY1920   | F38231, F38468, F38465     |
| McCauley                 | D3A32C409C/S82NDB-2      | 920417   | MA626, MA633, MA657        |
| Hartzell                 | HC-2AVK-1/V8433-7        | J183     | E19009, E19128             |
| Hartzell                 | HC-B3TN-3N/T10178K-3R    | BU17720  | H04897, H04888, H04893     |
| Hartzell                 | HC-B3TN-3N/T10178K-3R    | BU17718  | H04900, H04899, H04898     |
| Hartzell                 | HC-M2YR-1BF/F7666A       | EN648    | E49210, E54718             |
| McCauley                 | 1A175FC8457              | 66574    | N/A                        |
| Hartzell                 | HC-B3TN-3G/T10178K-3R    | BU17737  | H05521, H05190, H05538     |
| McCauley                 | D2AF34C52NP/S80GF-0      | 720791   | E493YS, E503YS             |
| McCauley                 | 4HFR34C764AB/94LMB-0     | 890877   | JA028, JA031, JA052, JA041 |
| McCauley                 | D3A34C402/90DFA-10       | 784077   | B91709P, B91883P, B91910P  |

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| Hartzell                 | HC-M2YR-1BF/F7666A-2      | EN302    | D15030, D15043                            |
| McCauley                 | 3A32C76SM/S82NB-2         | 764933   | K68111YS, K68055YS, K68055YS              |
| McCauley                 | D3A32C90R/S82NC-2         | 902456   | KF001, KF043YS, KF049YS                   |
| Hartzell                 | BHC-92ZF-10/8447          | 162U     | B39113, B39115                            |
| McCauley                 | 4HFR34C764AB/94LMB-0      | 890882   | JC007, JC002, JC024, JC017                |
| McCauley                 | D3A34C401C/G90DFA-10      | 921255   | MC395, MC402, MC409                       |
| Hartzell                 | HC-D4N-3C/D9290K          | FY1109   | H60544, H60545, H60541, H60548            |
| Hartzell                 | HC-B3TN-3B/T10173+1       | BU9729   | J05632, J05629, J05631                    |
| Hartzell                 | HC-B3TN-3D/T10173+1       | BU9722   | H15075, H15077, H15083                    |
| McCauley<br>(Sensenich?) | 74DM6-0-60                | A46605   | N/A                                       |
| McCauley                 | 4HR34C764/942MB-0         | 900194   | JE014, JK014, JK019, JK035                |
| McCauley                 | B2034C207/78TCA-0         | 779232   | B31194, B62591                            |
| Hartzell                 | HC-D4N-3C/D9290K          | FY214A   | F84995, F85651, F86264, F95637            |
| McCauley                 | D3A32C88MR/S82NC-2        | 727911   | FF363YS, FF377YS, FF391YS                 |
| McCauley                 | 2A36C23PR/S84B-0          | 822266   | C5056YS, C5050YS                          |
| Hartzell                 | HC-B3TN-3B/T10173+1       | BU11052  | J01493, J01497, J01498                    |
| McCauley                 | 3AF32C93NR/S82NC-5.5      | 800442   | K97914YS, K100415YS, K100711YS            |
| McCauley                 | 3AF32C93NR/S82NC-5.5      | 798452   | K100315YS, K102796YS, K100765YS           |
| McCauley                 | 3AF32C505C/G82NEA-6       | 932209   | N0149, NN151, MD487                       |
| Hartzell                 | HC-E3YR-2ALTF/FJC8468-6R  | DJ10104A | E92975, E94505, E92981                    |
| Hartzell                 | HC-E2YR-2ATP/FC8468-6R    | DJ10101A | F83898, F84393, F84401                    |
| Hartzell                 | HC-E3YR-2ALTF/FJC8468-6R  | DJ8406A  | H04519, H10395, H10392                    |
| Hartzell                 | HC-E3YR-2ATF/FC8468-6R    | DJ8407A  | E75985, E75972, E77465                    |
| Hartzell                 | HC-E3YR-2ALTF/FJC8468B-6R | DJ8144A  | F33279, F33283, F33296                    |
| Hartzell                 | HC-E3YR-2ATF/FC8468B-6R   | DJ8142A  | D88775, D91602, D91740                    |
| Hartzell                 | HC-C3YF-5F/FC8475FK-6     | FR36     | F28935, F28927, F28937                    |
| Hartzell                 | HC-B3F-7A/T10173-25R      | EX380    | F95235, F93658, F95227                    |
| Hartzell                 | HC-D4N-3C/D9290K          | FY206A   | F78134, F77995, F78127, F77997            |
| McCauley                 | 2A34C201/90DA-4           | 761812   | C87471, C87459                            |
| Hartzell                 | HC-C2YK-1BF/F8475D-4      | CH12517  | D21832, D18263                            |
| McCauley                 | D3A32C409C/G82NDB-2       | 911972   | L1219, L1239, L1247                       |
| Hartzell                 | HC-C2YK-2CUF/F, C8477A-4  | AU5322   | H32796, H32789                            |
| McCauley                 | 1C172EM7653               | E7498    | N/A                                       |
| Hartzell                 | HC-C2YK-2CUF/FC8477A-4    | AU8064   | H31627, H31624                            |
| McCauley                 | D2A34C58NO/S90AT-0        | 741748   | KK017YS, KK018YS                          |
| Hartzell                 | HC-B5MP-3C1/M10876ASK     | EV967    | H37301, H37304, H37315, H37314,<br>H34824 |
| Hartzell                 | HC-B3TN-3B/T10173+1       | BU14681  | H21688, H21683, H18440                    |
| McCauley                 | 1C160DTM7553              | E17548   | N/A                                       |
| Hartzell                 | HC-A2VK-1/V8433N-7        | J354     | F86145, F86143                            |
| McCauley                 | 4HFR34C764AB/94LMB-0      | 890960   | JC027, JC042, JC051, JC061                |
| McCauley                 | 4HFR34C764AB/94LMB-0      | 890963   | JA043, JC045, JC050, JC040                |

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| Hartzell | HC-C2YF-1E/F7063Q         | GK45     | H30806, H30807, H30810, H30816 |
| McCauley | D3A32C88/S82NC-2          | 713933   | K65794YS, K73638YS, K74425YS   |
| Hartzell | HC-E3YR-2UF/C7479-2R      | CH577    | B86472, B86469, C19938         |
| Hartzell | HC-F3YR-2/C7479B-2R       | CH540    | B80089, B80093, B80109         |
| McCauley | D3A32409/G82NDB-2         | 911686   | LF097, LF105, LF115            |
| McCauley | 3AF32C93N/S82NC-5.5       | 768750   | F71609YS, F70842YS, F71604YS   |
| McCauley | 3AF32C93N/S82NC-5.5       | 768655   | F71893YS, F71899YS, F71903YS   |
| McCauley | 4HFR34C764AB/94LMB-0      | 900184   | PK058, PK066, PK062, PK069     |
| McCauley | 4HFR34C764AB              | 890879   | KC049, KC067, KC059, KC058     |
| Hartzell | HC-E3YR-2ALTF/FJC8468B-6R | DJ8624A  | F365061, F36508, F36500        |
| Hartzell | HC-E3YR-2ALTF/FC8468B-6R  | DJ8569A  | E88998, E92028, E92049         |
| Hartzell | HC-B3TN-3N/T10178K-3R     | BU17033  | F777284, F77288, F75134        |
| Hartzell | HC-E3YR-2ALTF/FJC8468-8R  | DJ8936A  | D92769, D92555, D91476         |
| Hartzell | HC-E3YR-2ALTF/FJC8468-8R  | DJ8521A  | E56519, E59163, E58847         |
| Hartzell | HC-E3YR-2ALTF/FJC8468-6R  | DJ10171A | F79970, F79974, F79978         |
| Hartzell | HC-E3YR-2ALTF/FJC8468B-6R | DJ8397A  | H34571, H34575, H34576         |
| Hartzell | HC-E3YR-2ATF/FC8468-6C    | DJ10355  | E77022, E88484, C61343         |
| Hartzell | HC-E3YR-2ALTF/FJC8468-6R  | DJ10364A | C79699, C751492, C79763        |
| McCauley | 3AF32C93NR/82NC-5.5       | 772687   | F75663YS, F75681YS, F75687YS   |
| McCauley | 3AF32C93NR/82NC-5.5       | 772767   | F75093YS, F75290YS, F75700YS   |
| Hartzell | HC-E3YR-2ALTF/FJC8468-6R  | DJ9551A  | E48375, C64437, E48588         |
| Hartzell | HC-E3YR-2ATF/FC8468-6R    | DJ10302A | E4036, E4069, E4062            |
| Hartzell | HC-E3YR-2ALTF/FJC8468-6R  | DJ10369A | F70848, F70850, F70841         |
| McCauley | D2A34C58NQS/90AT-2        | 724287   | GB138YS, CB158YS               |
| Hartzell | HC-E3YR-2ALTF/FJC8468-6R  | DJ9431A  | E35522, E31572, E34913         |
| Hartzell | HC-E3YR-2ATF/FC8468-6R    | DJ9577A  | D98760, C86483, E109527        |
| Hartzell | HC-E3YR-2ATF/FC8468-6R    | D9463A   | E36201, E33786, E36411         |
| Hartzell | HC-A2V20-4AI/V8833N-4     | AK1589   | E28689, E20825                 |
| Hartzell | HC-E3YR-2ATF/FC8468B-6R   | DJ10390A | H84477, H84476, H84502         |
| Hartzell | HC-82VL-1DA/V7636N        | G200N    | E72179, E72184                 |
| Hartzell | HC-E2YR-1BF/F7666A-2      | DK368    | F56889, F56891                 |
| McCauley | 2D34C202/82PA-6           | 698467   | C82798, C82838                 |
| Hartzell | HC-E3YR-2ATF/FC8468-6R    | DJ8980A  | E68167, E68225, E681198        |
| Hartzell | HC-E3YR-2ALTF/FJC8468B-6R | DJ10042A | H70673, H71165, H71166         |
| Hartzell | HC-E3YR-2AFF/FC8468-6R    | DJ11542A | H82295, H82296, H82306         |
| Hartzell | HC-E3YR-2ALTF/FJC8468B-6R | DJ9082A  | E73951, E73953, E79517         |
| Hartzell | HC-C2YK-1B/7666A-2        | CH6235   | B34292, B33792                 |
| Hartzell | HC-C3YF-3RF/F8468A-8L     | EC1144A  | H594456, H59460, H59459        |
| McCauley | D3A32C402/90DFA-10        | 813702   | FK530, FK531, FK594            |
| McCauley | D3A32C88MN/S82NC-2        | 757431   | F4758YS, F47403YS, F47531YS    |
| Hartzell | HC-B3TN-5E/T10282B        | BV4113   | F66118, F66129, F66119         |
| Hartzell | HC-E3YR-2ALTF/FJC8468-6R  | DJ11503A | H23246, H23249, H23248         |

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| Hartzell | HC-E3YR-2ATF/FC8468-6R   | DJ8583A  | H02160, H02157, H02149       |
| Hartzell | BHC-J2YF-2CUF/FC8475-6   | D2579    | D22Y3, D6329                 |
| Hartzell | BHC-J2YF-2CUF/FC8475-6   | D2616    | D76344, D76336               |
| Hartzell | BHC-J2YF-1C/B7421        | EF191    | N/A                          |
| Hartzell | HC-C2YK-1B/7666A-2       | CH9295   | C73730, C76121               |
| Hartzell | HC-E3YR-2ALTF/FJC8468-6R | DJ9320A  | F07455, F12764, F12747       |
| Hartzell | HC-E3YR-2ATF/FC8468-6R   | DJ8365A  | E81645, E81625, E84180       |
| McCauley | 3A32C76SM/82NB-2         | 745379   | F48547YS, K62276YS, F48943YS |
| Hartzell | HC-C3YR-2UF/FC8468B-8R   | CK44721  | C44483, C44461, C41252       |
| Hartzell | HC-C3YR-2UF/FC8468B-8R   | CK4506A  | C82803, C83440, C93477       |
| Hartzell | HC-E3YR-2ALTF/FJC8468-8R | DJ1123A  | E84530, E845538, E48373      |
| Hartzell | HC-E3YR-2ATF/FC8468B06R  | DJ8625A  | H39752, H40701, H97697       |
| Hartzell | HC-C3YF-1RF/F8468A-8R    | EC1115A  | H58833, H58825, H58828       |
| Hartzell | HC-E3YR-2ATF/FC8468B-6R  | DJ11225A | H92252, H92254, H92257       |
| Hartzell | HC-B3TN-5E/T10282B       | BY4118   | F11493, F69243, F70034       |
| McCauley | D3A34C402/90DFA-10       | 7788868  | K78657, K78666, K78688       |