

## NAG Fortran Library

### Routines Withdrawn or Scheduled for Withdrawal

This document lists all those routines that have been presented in earlier Marks of the Library, but have since been withdrawn or are scheduled for withdrawal.

The document gives the names of the routines which are now recommended as their replacements. Another document, 'Advice on Replacement Calls for Withdrawn/Superseded Routines', gives more detailed guidance.

| <b>Withdrawn Routine</b> | <b>Mark of Withdrawal</b> | <b>Replacement Routine(s)</b> |
|--------------------------|---------------------------|-------------------------------|
| C02ADF                   | 15                        | C02AFF                        |
| C02AEF                   | 16                        | C02AGF                        |
| C05AAF                   | 9                         | C05ADF                        |
| C05ABF                   | 9                         | C05ADF                        |
| C05ACF                   | 9                         | C05ADF                        |
| C05NAF                   | 10                        | C05NBF or C05NCF              |
| C05PAF                   | 8                         | C05PBF or C05PCF              |
| C06AAF                   | 9                         | C06ECF or C06FRF              |
| C06ABF                   | 9                         | C06EAF or C06FPF              |
| C06ACF                   | 12                        | C06EKF or C06FKF              |
| C06ADF                   | 12                        | C06FFF                        |
| D01AAF                   | 8                         | D01AJF                        |
| D01ABF                   | 8                         | D01AJF                        |
| D01ACF                   | 9                         | D01BDF                        |
| D01ADF                   | 8                         | D01BAF or D01BBF              |
| D01AEF                   | 8                         | D01BAF or D01BBF              |
| D01AFF                   | 8                         | D01BAF or D01BBF              |
| D01AGF                   | 9                         | D01AJF                        |
| D01FAF                   | 11                        | D01GBF                        |
| D02AAF                   | 8                         | D02PDF                        |
| D02ABF                   | 8                         | D02PCF                        |
| D02ADF                   | 9                         | D02HAF or D02GAF              |
| D02AFF                   | 9                         | D02TGF                        |
| D02AHF                   | 8                         | D02CJF or D02QFF              |
| D02AJF                   | 8                         | D02EJF and D02NBF             |
| D02BAF                   | 18                        | D02PCF                        |
| D02BBF                   | 18                        | D02PCF                        |
| D02BDF                   | 18                        | D02PCF                        |
| D02CAF                   | 18                        | D02CJF                        |
| D02CBF                   | 18                        | D02CJF                        |
| D02CGF                   | 18                        | D02CJF                        |
| D02CHF                   | 18                        | D02CJF                        |
| D02EAF                   | 18                        | D02EJF                        |
| D02EBF                   | 18                        | D02EJF                        |
| D02EGF                   | 18                        | D02EJF                        |
| D02EHF                   | 18                        | D02EJF                        |
| D02PAF                   | 18                        | D02PDF                        |
| D02QAF                   | 14                        | D02QFF, D02QWF and D02QXF     |
| D02QBF                   | 13                        | D02NBF                        |
| D02QDF                   | 17                        | D02NBF or D02NCF              |
| D02QQF                   | 17                        | not needed except with D02QDF |
| D02XAF                   | 18                        | D02PXF                        |
| D02XBF                   | 18                        | D02PXF                        |
| D02XGF                   | 14                        | D02QZF                        |
| D02XHF                   | 14                        | D02QZF                        |

|               |    |                                     |
|---------------|----|-------------------------------------|
| D02YAF        | 18 | D02PDF                              |
| D03PAF        | 17 | D03PCF/D03PCA                       |
| D03PBF        | 17 | D03PCF/D03PCA                       |
| D03PGF        | 17 | D03PCF/D03PCA                       |
| E01ACF        | 15 | E01DAF and E02DEF                   |
| E01ADF        | 9  | E01BAF                              |
| E01SEF        | 20 | E01SGF                              |
| E01SFF        | 20 | E01SHF                              |
| E02DBF        | 16 | E02DEF                              |
| E04AAF        | 7  | E04ABF/E04ABA                       |
| E04BAF        | 7  | E04BBF/E04BBA                       |
| E04CDF        | 7  | E04WDF                              |
| E04CEF        | 7  | E04JYF                              |
| E04CFF        | 8  | E04WDF                              |
| E04CGF        | 13 | E04JYF                              |
| E04DBF        | 13 | E04DGF/E04DGA                       |
| E04DCF        | 7  | E04WDF or E04KDF                    |
| E04DDF        | 8  | E04WDF or E04KDF                    |
| E04DEF        | 13 | E04KYF                              |
| E04DFF        | 13 | E04KZF                              |
| E04EAF        | 8  | E04LBF                              |
| E04EBF        | 13 | E04LYF                              |
| E04FAF        | 8  | E04FCF or E04FYF                    |
| E04FBF        | 7  | E04FCF or E04FYF                    |
| E04FDF        | 19 | E04FYF                              |
| E04GAF        | 8  | E04GBF, E04GYF, E04GDF or E04GZF    |
| E04GCF        | 19 | E04GYF                              |
| E04GEF        | 19 | E04GZF                              |
| E04HAF        | 7  | E04WDF                              |
| E04HBF        | 16 | no longer required                  |
| E04HFF        | 19 | E04HYF                              |
| E04JAF        | 19 | E04JYF                              |
| E04JBF        | 16 | E04WDF                              |
| E04KAF        | 19 | E04KYF                              |
| E04KBF        | 16 | E04WDF                              |
| E04KCF        | 19 | E04KZF                              |
| E04LAF        | 19 | E04LYF                              |
| E04MBF        | 18 | E04MFF/E04MFA                       |
| E04NAF        | 18 | E04NFF/E04NFA                       |
| E04NKF/E04NKA | 23 | E04NQF                              |
| E04NLF/E04NLA | 23 | E04NRF                              |
| E04NMF/E04NMA | 23 | E04NSF, E04NTF and E04NUF           |
| E04UAF        | 13 | E04WDF                              |
| E04UCF/E04UCA | 23 | E04WDF                              |
| E04UDF/E04UDA | 23 | E04WEF                              |
| E04UEF/E04UEA | 23 | E04WFF, E04WGF and E04WHF           |
| E04UHF/E04UHA | 23 | E04VKF                              |
| E04UJF/E04UJA | 23 | E04VLF, E04VMF and E04VNF           |
| E04UNF        | 22 | E04USF/E04USA                       |
| E04UPF        | 19 | E04USF/E04USA                       |
| E04VAF        | 12 | E04WDF                              |
| E04VBF        | 12 | E04WDF                              |
| E04VCF        | 17 | E04WDF                              |
| E04VDF        | 17 | E04WDF                              |
| E04WAF        | 12 | E04WDF                              |
| E04ZAF        | 12 | E04ZCF/E04ZCA                       |
| E04ZBF        | 12 | no longer required                  |
| F01AAF        | 17 | F07ADF (DGETRF) and F07AJF (DGETRI) |
| F01ACF        | 16 | F01ABF                              |

|        |    |                                                     |
|--------|----|-----------------------------------------------------|
| F01AEF | 18 | F07FDF (DPOTRF), F08SEF (DSYGST) and F06EGF (DSWAP) |
| F01AFF | 18 | F06YJF (DTRSM) and F06EGF (DSWAP)                   |
| F01AGF | 18 | F08FEF (DSYTRD)                                     |
| F01AHF | 18 | F08FGF (DORMTR)                                     |
| F01AJF | 18 | F08FEF (DSYTRD) and F08FFF (DORGTR)                 |
| F01AKF | 18 | F08NEF (DGEHRD)                                     |
| F01ALF | 18 | F08NGF (DORMHR)                                     |
| F01AMF | 18 | F08NSF (ZGEHRD)                                     |
| F01ANF | 18 | F08NTF (ZUNGHR)                                     |
| F01APF | 18 | F08NFF (DORGHR) and F06QFF                          |
| F01ATF | 18 | F08NHF (DGEBAL)                                     |
| F01AUF | 18 | F08NJF (DGEBAL)                                     |
| F01AVF | 18 | F08NVF (ZGEBAL)                                     |
| F01AWF | 18 | F08NWF (ZGEBAL)                                     |
| F01AXF | 18 | F08BEF (DGEQPF) and F06EFF (DCOPY)                  |
| F01AYF | 18 | F08GEF (DSPTRD)                                     |
| F01AZF | 18 | F08GGF (DOPMTR)                                     |
| F01BCF | 18 | F08FSF (ZHETRD) and F08FTF (ZUNGTR)                 |
| F01BDF | 18 | F07FDF (DPOTRF), F08SEF (DSYGST) and F06EGF (DSWAP) |
| F01BEF | 18 | F06YFF (DTRMM)                                      |
| F01BFF | 8  | F07GDF (DPPTRF) or F07PDF (DSPTRF)                  |
| F01BHF | 9  | F08KBF (DGESVD)                                     |
| F01BJF | 9  | F08HEF (DSBTRD)                                     |
| F01BKF | 9  | F02WDF                                              |
| F01BMF | 9  | F07BDF (DGBTRF)                                     |
| F01BNF | 17 | F07FRF (ZPOTRF)                                     |
| F01BPF | 17 | F07FRF (ZPOTRF) and F07FWF (ZPOTRI)                 |
| F01BQF | 16 | F07GDF (DPPTRF) and F07PDF (DSPTRF)                 |
| F01BTF | 18 | F07ADF (DGETRF)                                     |
| F01BWF | 18 | F08HEF (DSBTRD)                                     |
| F01BXF | 17 | F07FDF (DPOTRF)                                     |
| F01CAF | 14 | F06QHF                                              |
| F01CBF | 14 | F06QHF                                              |
| F01CCF | 7  | F06QFF                                              |
| F01CDF | 15 | F01CTF                                              |
| F01CEF | 15 | F01CTF                                              |
| F01CFE | 14 | F06QFF                                              |
| F01CGF | 15 | F01CTF                                              |
| F01CHF | 15 | F01CTF                                              |
| F01CJF | 8  | F01CRF                                              |
| F01CLF | 16 | F06YAF (DGEMM)                                      |
| F01CMF | 14 | F06QFF                                              |
| F01CNF | 13 | F06EFF (DCOPY)                                      |
| F01CPF | 13 | F06EFF (DCOPY)                                      |
| F01CQF | 13 | F06FBF                                              |
| F01CSF | 13 | F06PEF (DSPMV)                                      |
| F01DAF | 13 | F06EAF (DDOT)                                       |
| F01DBF | 13 | X03AAF                                              |
| F01DCF | 13 | F06GAF (ZDOTU)                                      |
| F01DDF | 13 | X03ABF                                              |
| F01DEF | 14 | F06EAF (DDOT)                                       |
| F01LBF | 18 | F07BDF (DGBTRF)                                     |
| F01LZF | 15 | F08KEF (DGEHRD), F08KFF (DORGBR) or F08KGF (DORMBR) |
| F01MAF | 19 | F11JAF                                              |
| F01NAF | 17 | F07BRF (ZGBTRF)                                     |
| F01QAF | 15 | F08AEF (DGEQRF)                                     |
| F01QBF | 15 | F01QJF                                              |
| F01QCF | 18 | F08AEF (DGEQRF)                                     |
| F01QDF | 18 | F08AGF (DORMQR)                                     |

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|--------|----|-------------------------------------|
| F01QEF | 18 | F08AFF (DORGQR)                     |
| F01QFF | 18 | F08BEF (DGEQPF)                     |
| F01RCF | 18 | F08ASF (ZGEQRF)                     |
| F01RDF | 18 | F08AUF (ZUNMQR)                     |
| F01REF | 18 | F08ATF (ZUNGQR)                     |
| F01RFF | 18 | F08BSF (ZGEQPF)                     |
| F02AAF | 18 | F08FAF (DSYEV)                      |
| F02ABF | 18 | F08FAF (DSYEV)                      |
| F02ADF | 18 | F08SAF (DSYGV)                      |
| F02AEF | 18 | F08SAF (DSYGV)                      |
| F02AFF | 18 | F08NAF (DGEEV)                      |
| F02AGF | 18 | F08NAF (DGEEV)                      |
| F02AHF | 8  | F02ECF                              |
| F02AJF | 18 | F08NNF (ZGEEV)                      |
| F02AKF | 18 | F08NNF (ZGEEV)                      |
| F02ALF | 8  | F02GCF                              |
| F02AMF | 18 | F08JEF (DSTEQR)                     |
| F02ANF | 18 | F08PSF (ZHSEQR)                     |
| F02APF | 18 | F08PEF (DHSEQR)                     |
| F02AQF | 18 | F08PEF (DHSEQR) and F08QKF (DTREVC) |
| F02ARF | 18 | F08PSF (ZHSEQR) and F08QXF (ZTREVC) |
| F02ATF | 8  | F08PKF (DHSEIN)                     |
| F02AUF | 8  | F08PXF (ZHSEIN)                     |
| F02AVF | 18 | F08JFF (DSTERF)                     |
| F02AWF | 18 | F08FNF (ZHEEV)                      |
| F02AXF | 18 | F08FNF (ZHEEV)                      |
| F02AYF | 18 | F08JSF (ZSTEQR)                     |
| F02BBF | 19 | F08FBF (DSYEVX)                     |
| F02BCF | 19 | F02ECF                              |
| F02BDF | 19 | F02GCF                              |
| F02BEF | 18 | F08JFF (DSTEBZ) and F08JKF (DSTEIN) |
| F02BFF | 18 | F08JFF (DSTEBZ)                     |
| F02BJF | 23 | F08WAF (DGGEV)                      |
| F02BKF | 18 | F08PKF (DHSEIN)                     |
| F02BLF | 18 | F08PXF (ZHSEIN)                     |
| F02BMF | 9  | F08HEF (DSBTRD) and F08JFF (DSTEBZ) |
| F02EAF | 23 | F08PAF (DGEES)                      |
| F02EBF | 23 | F08NAF (DGEEV)                      |
| F02FAF | 23 | F08FAF (DSYEV)                      |
| F02FCF | 23 | F08FBF (DSYEVX)                     |
| F02FDF | 23 | F08SAF (DSYGV)                      |
| F02FHF | 23 | F08UAF (DSBGV)                      |
| F02GAF | 23 | F08PNF (ZGEES)                      |
| F02GBF | 23 | F08NNF (ZGEEV)                      |
| F02GJF | 23 | F08WNF (ZGGEV)                      |
| F02HAF | 23 | F08FNF (ZHEEV)                      |
| F02HCF | 23 | F08FPF (ZHEEVX)                     |
| F02HDF | 23 | F08SNF (ZHEGV)                      |
| F02SWF | 18 | F08KEF (DGEBRD)                     |
| F02SXF | 18 | F08KFF (DORGBR) and F08KGF (DORMBR) |
| F02SYF | 18 | F08MEF (DBDSQR)                     |
| F02SZF | 15 | F08MEF (DBDSQR)                     |
| F02UWF | 18 | F08KSF (ZGEBRD)                     |
| F02UXF | 18 | F08KTF (ZUNGBR) or F08KUF (ZUNMBR)  |
| F02UYF | 18 | F08MSF (ZBDSQR)                     |
| F02WAF | 16 | F08KBF (DGESVD)                     |
| F02WBF | 14 | F08KBF (DGESVD)                     |
| F02WCF | 14 | F08KBF (DGESVD)                     |
| F02WEF | 23 | F08KBF (DGESVD)                     |

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|--------|----|----------------------------------------------------|
| F02XEF | 23 | F08KPF (ZGESVD)                                    |
| F03AGF | 17 | F07HDF (DPBTRF)                                    |
| F03AHF | 17 | F07ARF (ZGETRF)                                    |
| F03AJF | 8  | F01BRF                                             |
| F03AKF | 8  | F01BSF                                             |
| F03ALF | 9  | F07BDF (DGBTRF)                                    |
| F03AMF | 17 | No replacement; see Chapter F03                    |
| F04AAF | 23 | F07AAF (DGESV)                                     |
| F04ACF | 23 | F07HAF (DPBSV)                                     |
| F04ADF | 23 | F07ANF (ZGESV)                                     |
| F04AKF | 17 | F07ASF (ZGETRS)                                    |
| F04ALF | 17 | F07HEF (DPBTRS)                                    |
| F04ANF | 18 | F08AGF (DORMQR), F06PJF (DTRSV) and F06EFF (DCOPY) |
| F04APF | 8  | F04AXF                                             |
| F04AQF | 16 | F07GEF (DPPTRS) and F07PEF (DSPTRS)                |
| F04ARF | 23 | F07AAF (DGESV)                                     |
| F04AUF | 9  | F04JGF                                             |
| F04AVF | 9  | F07BEF (DGBTRS)                                    |
| F04AWF | 17 | F07FSF (ZPOTRS)                                    |
| F04AYF | 18 | F07AEF (DGETRS)                                    |
| F04AZF | 17 | F07FEF (DPOTRS)                                    |
| F04EAF | 23 | F07CAF (DGTSV)                                     |
| F04FAF | 23 | F07JAF (DPTSV)                                     |
| F04JAF | 23 | F08KAF (DGELSS)                                    |
| F04JDF | 23 | F08KAF (DGELSS)                                    |
| F04JLF | 23 | F08ZBF (DGGGLM)                                    |
| F04JMF | 23 | F08ZAF (DGGLSE)                                    |
| F04KLF | 23 | F08ZPF (ZGGGLM)                                    |
| F04KMF | 23 | F08ZNF (ZGGLSE)                                    |
| F04LDF | 18 | F07BEF (DGBTRS)                                    |
| F04MAF | 19 | F11JCF                                             |
| F04MBF | 19 | F11GDF, F11GEF, F11GFF, F11JCF or F11JEF           |
| F04NAF | 17 | F07BSF (ZGBTRS) and F06SKF (ZTBSV)                 |
| F05ABF | 14 | F06EJF (DNRM2)                                     |
| F06QGF | 16 | F06RAF, F06RCF and F06RJF                          |
| F06VGF | 16 | F06UAF, F06UCF and F06UJF                          |
| F11BAF | 21 | F11BDF                                             |
| F11BBF | 21 | F11BEF                                             |
| F11BCF | 21 | F11BFF                                             |
| F11GAF | 22 | F11GDF                                             |
| F11GBF | 22 | F11GEF                                             |
| F11GCF | 22 | F11GFF                                             |
| G01ACF | 9  | G04BBF                                             |
| G01BAF | 16 | G01EBF                                             |
| G01BBF | 16 | G01EDF                                             |
| G01BCF | 16 | G01ECF                                             |
| G01BDF | 16 | G01EEF                                             |
| G01CAF | 16 | G01FBF                                             |
| G01CBF | 16 | G01FDF                                             |
| G01CCF | 16 | G01FCF                                             |
| G01CDF | 16 | G01FEF                                             |
| G01CEF | 18 | G01FAF                                             |
| G02CJF | 16 | G02DAF and G02DGF                                  |
| G04ADF | 17 | G04BCF                                             |
| G04AEF | 17 | G04BBF                                             |
| G04AFF | 17 | G04CAF                                             |
| G05AAF | 7  | G05KAF                                             |
| G05ABF | 7  | G05LGF                                             |
| G05ACF | 7  | G05LJF                                             |

|        |    |        |
|--------|----|--------|
| G05ADF | 7  | G05LAF |
| G05AEF | 7  | G05LAF |
| G05AFF | 7  | G05LKF |
| G05AGF | 7  | G05LLF |
| G05AHF | 7  | G05LFF |
| G05AJF | 7  | G05LFF |
| G05AKF | 7  | G05LFF |
| G05ALF | 7  | G05LEF |
| G05AMF | 7  | G05LEF |
| G05ANF | 7  | G05LCF |
| G05APF | 7  | G05LBF |
| G05AQF | 7  | G05LDF |
| G05ARF | 7  | G05MZF |
| G05ASF | 7  | G05MJF |
| G05ATF | 7  | G05MAF |
| G05AUF | 7  | G05MLF |
| G05AVF | 7  | G05MKF |
| G05AWF | 7  | G05MZF |
| G05AZF | 7  | G05MZF |
| G05BAF | 7  | G05KBF |
| G05BBF | 7  | G05KCF |
| G05CAF | 22 | G05KAF |
| G05CBF | 22 | G05KBF |
| G05CCF | 22 | G05KCF |
| G05CFF | 22 | F06DFF |
| G05CGF | 22 | F06DFF |
| G05DAF | 22 | G05LGF |
| G05DBF | 22 | G05LJF |
| G05DCF | 22 | G05LNF |
| G05DDF | 22 | G05LAF |
| G05DEF | 22 | G05LKF |
| G05DFF | 22 | G05LLF |
| G05DGF | 16 | G05LFF |
| G05DHF | 22 | G05LCF |
| G05DJF | 22 | G05LBF |
| G05DKF | 22 | G05LDF |
| G05DLF | 16 | G05LEF |
| G05DMF | 16 | G05LEF |
| G05DPF | 22 | G05LMF |
| G05DRF | 22 | G05MEF |
| G05DYF | 22 | G05MAF |
| G05DZF | 22 | G05KEF |
| G05EAF | 22 | G05LZF |
| G05EBF | 22 | G05MAF |
| G05ECF | 22 | G05MKF |
| G05EDF | 22 | G05MJF |
| G05EEF | 22 | G05MCF |
| G05EFF | 22 | G05MLF |
| G05EGF | 22 | G05PAF |
| G05EHF | 22 | G05NAF |
| G05EJF | 22 | G05NBF |
| G05EWF | 22 | G05PAF |
| G05EXF | 22 | G05MZF |
| G05EYF | 22 | G05MZF |
| G05EZF | 22 | G05LZF |
| G05FAF | 22 | G05LGF |
| G05FBF | 22 | G05LJF |
| G05FDF | 22 | G05LAF |
| G05FEF | 22 | G05LEF |

|        |    |                                                                      |
|--------|----|----------------------------------------------------------------------|
| G05FFF | 22 | G05LFF                                                               |
| G05FSF | 22 | G05LPF                                                               |
| G05GAF | 22 | G05QAF                                                               |
| G05GBF | 22 | G05QBF                                                               |
| G05HDF | 22 | G05PCF                                                               |
| G05YAF | 23 | G05YCF, G05YDF, G05YEF, G05YFF, G05YGF, G05YHF,<br>G05YJF and G05YKF |
| G05YBF | 23 | G05YCF, G05YDF, G05YEF, G05YFF, G05YGF, G05YHF,<br>G05YJF and G05YKF |
| G05ZAF | 22 | No replacement document required                                     |
| G08ABF | 16 | G08AGF                                                               |
| G08ADF | 16 | G08AHF, G08AJF and G08AKF                                            |
| G08CAF | 16 | G08CBF                                                               |
| G13DAF | 17 | G13DMF                                                               |
| H01ABF | 12 | E04MFF/E04MFA                                                        |
| H01ADF | 12 | E04MFF/E04MFA                                                        |
| H01AEF | 9  | E04MFF/E04MFA                                                        |
| H01AFF | 12 | E04MFF/E04MFA                                                        |
| H01BAF | 12 | E04MFF/E04MFA                                                        |
| H02AAF | 12 | E04NCF/E04NCA                                                        |
| H02BAF | 15 | H02BBF                                                               |
| M01AAF | 13 | M01DAF                                                               |
| M01ABF | 13 | M01DAF                                                               |
| M01ACF | 13 | M01DBF                                                               |
| M01ADF | 13 | M01DBF                                                               |
| M01AEF | 13 | M01DEF and M01EAF                                                    |
| M01AFF | 13 | M01DEF and M01EAF                                                    |
| M01AGF | 13 | M01DFF and M01EBF                                                    |
| M01AHF | 13 | M01DFF and M01EBF                                                    |
| M01AJF | 16 | M01DAF, M01ZAF and M01CAF                                            |
| M01AKF | 16 | M01DAF, M01ZAF and M01CAF                                            |
| M01ALF | 13 | M01DBF, M01ZAF and M01CBF                                            |
| M01AMF | 13 | M01DBF, M01ZAF and M01CBF                                            |
| M01ANF | 13 | M01CAF                                                               |
| M01APF | 16 | M01CAF                                                               |
| M01AQF | 13 | M01CBF                                                               |
| M01ARF | 13 | M01CBF                                                               |
| M01BAF | 13 | M01CCF                                                               |
| M01BBF | 13 | M01CCF                                                               |
| M01BCF | 13 | M01CCF                                                               |
| M01BDF | 13 | M01CCF                                                               |
| P01AAF | 13 | P01ABF                                                               |
| X02AAF | 16 | X02AJF                                                               |
| X02ABF | 16 | X02AKF                                                               |
| X02ACF | 16 | X02ALF                                                               |
| X02ADF | 14 | X02AJF and X02AKF                                                    |
| X02AEF | 14 | X02AMF                                                               |
| X02AFF | 14 | X02AMF                                                               |
| X02AGF | 16 | X02AMF                                                               |
| X02BAF | 14 | X02BHF                                                               |
| X02BCF | 14 | X02AMF                                                               |
| X02BDF | 14 | X02AMF                                                               |
| X02CAF | 17 | not needed except with F01BTF and F01BXF                             |