

STOCK OUTBOARD MOTOR SPECIFICATIONS

| ENGINE MODEL           |                                                                                                       | MARK 5, KF-5<br>& MARK 6<br>STANDARD<br>LOWER UNIT      | MERC 60             | ALL MERCURY<br>"A" ENGINES               | MARK 20H                                                 | CHAMPION<br>HOT ROD<br>6MHR, 6MMHR<br>6NHR               | CHRYSLER<br>202<br>203                                   | OMC<br>25                                       | MERC<br>200             | MARK 30H                | CRESENT<br>SUPER C                                 | CHRYSLER<br>350         | MERC 400<br>AND<br>MERC 402 | MARK 55H                                                    |
|------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------|-------------------------|-------------------------|----------------------------------------------------|-------------------------|-----------------------------|-------------------------------------------------------------|
| CLASS AND DISPLACEMENT |                                                                                                       | J-7.2                                                   | J-7.26              | A-14.85                                  | B-19.8                                                   | B-19.94                                                  | 25SS-19.96                                               | 25SS-22.1                                       | 25SS-22.0               | C-29.7                  | 499 C.C.                                           | 36-35.9                 | 36-33.33                    | D-39.6                                                      |
| 1                      | NUMBER OF CYLINDERS                                                                                   | 2                                                       | 2                   | 2                                        | 2                                                        | 2                                                        | 2                                                        | 2                                               | 2                       | 4                       | 3                                                  | 2                       | 2                           | 4                                                           |
| 2                      | GEAR RATIO                                                                                            | 16-21 OR 13-21                                          | 16-21 OR 13-21      | 15-15                                    | 15-15, 16-21                                             | 14-19                                                    | ANY APBA                                                 | APPROVED                                        | LOWER UNIT              | 15-15                   | 14-14, 13-14                                       | 13-21                   | 13-26                       | 14-14                                                       |
| 3                      | MINIMUM COMPRESSION VOL. in cc OF<br>ONE CYL. TO TOP OF SPARK PLUG HOLE                               | 9.0                                                     | 9.0                 | 14.2                                     | 17                                                       | 18                                                       | 19                                                       | 19                                              | 22                      | 16                      | 12.5                                               | 38                      | 28.0                        | 20.5                                                        |
| 4                      | CARBURETOR: MODEL NO.                                                                                 | MARK 5 MARK 6<br>KF-5<br>AJ-30A AJ-30B<br>AJ-30C AJ-46A | KB-6B<br>KB-5A      | AJ-30A AJ-46A<br>AJ-32A AJ-41A<br>AJ-36A | CARTER N-21505<br>15/16 VENTURI DIA<br>1 5/16 THREAT DIA | CARTER N-28735<br>N-24315<br>15/16 VENTURI DIA<br>MD-E3A | MD-142A                                                  | 1.057 VENTURI<br>1.012<br>1.500 THREAT<br>1.012 | KA-25A                  | AJ-49A<br>AJ-51A        | VENTURI,<br>1.0 MAX                                | WB-11B                  | KD-5A<br>WMK1<br>WMK1-0-1   | CARTER<br>N-25375<br>15/16 VENTURI DIA<br>1 5/16 THREAT DIA |
| 5                      | TILLOTSON UNLESS OTHERWISE SPECIFIED                                                                  |                                                         |                     |                                          |                                                          |                                                          |                                                          |                                                 |                         |                         |                                                    |                         |                             |                                                             |
| 5                      | TYPE OF LUBRICATION                                                                                   |                                                         |                     |                                          | KA7A                                                     |                                                          |                                                          |                                                 |                         |                         |                                                    |                         |                             |                                                             |
| 6                      | 1/84 GASKET                                                                                           | A                                                       | 1.521±.030          | 2.181±.010                               | 2.256±.010                                               | 2.265±.020                                               | NO GASKET                                                | NO GASKET                                       | NO GASKET               | NO GASKET               | NO GASKET                                          | NO GASKET               | NO GASKET                   | NO GASKET                                                   |
|                        | 1/32 GASKET                                                                                           | A                                                       | 1.074±.030          | 1.514±.010                               | 1.530±.010                                               | 1.531±.015                                               | 4.125±.020                                               | 4.031±.020                                      | 4.007±.025              | 4.007±.010              | 4.950 MAX                                          | 5.124±.020              | 4.828±.025                  | 4.081±.010                                                  |
|                        | 1/84 GASKET                                                                                           | B                                                       | 2.532±.010          | 1.530±.010                               | 1.531±.015                                               | 3.657±.025                                               | 3.469±.020                                               | 3.382±.010                                      | 3.355±.010              | 3.355±.010              | 4.405±.025                                         | 4.278±.025              | 3.329±.010                  | 3.329±.010                                                  |
|                        | 1/32 GASKET                                                                                           | B                                                       | 1.652±.030          | 2.395±.010                               | 2.411±.010                                               | 2.447±.010                                               | 4.391±.020                                               | 4.327±.020                                      | 4.221±.025              | 4.221±.010              | 5.44 MAX                                           | 5.405±.020              | 5.066±.025                  | 4.281±.010                                                  |
|                        | 1/84 GASKET                                                                                           | C                                                       | 1.231±.030          | 1.733±.010                               | 1.750±.015                                               | 3.750±.025                                               | 3.654±.020                                               | 3.591±.010                                      | 3.567±.010              | 3.567±.010              | 4.41                                               | 4.686±.025              | 4.366±.025                  | 3.543±.010                                                  |
|                        | 1/32 GASKET                                                                                           | C                                                       | 1.250±.020          | 2.689±.010                               | 1.747±.010                                               | 1.750±.015                                               | 3.750±.025                                               | 3.654±.020                                      | 3.591±.010              | 3.567±.010              | 4.41                                               | 4.686±.025              | 4.366±.025                  | 3.543±.010                                                  |
|                        | 1/84 GASKET                                                                                           | E                                                       | 1.687±.010          | 2.111±.010                               | 2.112±.002                                               | 2.112±.002                                               | 2.112±.002                                               | 2.112±.002                                      | 2.112±.002              | 2.112±.002              | 2.112±.002                                         | 2.112±.002              | 2.112±.002                  | 2.112±.002                                                  |
|                        | 1/32 GASKET                                                                                           | E                                                       | 1.750±.005          | 1.750±.003                               | 2.125±.004                                               | 2.125±.004                                               | 2.125±.004                                               | 2.125±.004                                      | 2.125±.004              | 2.125±.004              | 2.125±.004                                         | 2.125±.004              | 2.125±.004                  | 2.125±.004                                                  |
|                        | 1/84 GASKET                                                                                           | F                                                       | 1.437±.010          | 1.614±.005                               | 1.614±.005                                               | 1.614±.005                                               | 1.614±.005                                               | 1.614±.005                                      | 1.614±.005              | 1.614±.005              | 1.614±.005                                         | 1.614±.005              | 1.614±.005                  | 1.614±.005                                                  |
|                        | 1/32 GASKET                                                                                           | F                                                       | 2.625±.005          | 2.625±.006                               | 3.719±.006                                               | 3.719±.006                                               | 3.719±.006                                               | 3.719±.006                                      | 3.719±.006              | 3.719±.006              | 4.13                                               | 4.250±.004              | 4.062±.006                  | 3.719±.006                                                  |
|                        | 1/84 GASKET                                                                                           | G                                                       | 4 1/2 DIA.<br>PORTS | 4 1/2 DIA.<br>PORTS                      | 8 OVAL PORTS<br>1 x 5/8                                  | 8 OVAL PORTS<br>1 x 5/8                                  | 8 OVAL PORTS<br>1 x 5/8                                  | 8 OVAL PORTS<br>1 x 5/8                         | 8 OVAL PORTS<br>1 x 5/8 | 8 OVAL PORTS<br>1 x 5/8 | 8 OVAL PORTS<br>1 x 5/8                            | 8 OVAL PORTS<br>1 x 5/8 | 8 OVAL PORTS<br>1 x 5/8     | 8 OVAL PORTS<br>1 x 5/8                                     |
|                        | 1/32 GASKET                                                                                           | G                                                       | APPROX 7            | 9                                        | 11 1/4                                                   | 11 1/4                                                   | 12                                                       | 12                                              | 12                      | 12                      | 14.50 MAX                                          | 13                      | 15 1/4                      | 12 1/2                                                      |
|                        | 1/84 GASKET                                                                                           | H                                                       | 1 3/4               | 1 3/4                                    | 2 1/8                                                    | 2 1/8                                                    | 2 1/8                                                    | 2 1/8                                           | 2 1/8                   | 2 1/8                   | 1.61 MIN.                                          | 2.96 DIA                | 3 1/32                      | 2 3/8                                                       |
| 7                      | LOWER UNIT<br>SPECIFICATIONS (Minimums)                                                               |                                                         |                     |                                          |                                                          |                                                          |                                                          |                                                 |                         |                         |                                                    |                         |                             |                                                             |
|                        | STANDARD<br>LONG                                                                                      |                                                         |                     |                                          |                                                          |                                                          |                                                          |                                                 |                         |                         |                                                    |                         |                             |                                                             |
|                        | Q                                                                                                     | 23 3/32 ± 1/16                                          | 19 3/32 ± 1/16      | 19 3/32, 21 3/32<br>OR 24 3/32 ± 1/16    | 19 3/32, 21 3/32<br>OR 24 3/32 ± 1/16                    | 19 3/16                                                  | For Q through Ra specs.<br>see 25SS of Inspection Manual | 17 1/16 ± 1/16                                  | 17.32 MIN.              | 25.70 ± .04             | 24 1/16 ± 1/16<br>27 1/16 ± 1/16<br>28 1/16 ± 1/16 | 17 1/16 ± 1/16          | 17 1/16 ± 1/16              | 17 1/16 ± 1/16                                              |
|                        | R                                                                                                     | 4 3/64                                                  | 4                   | 4 1/2                                    | 4 1/2                                                    | 4 3/4                                                    |                                                          | 4 1/2                                           | 4.50 MIN                | 5.70                    | 6 OR 7                                             | 4 1/2                   | 4 1/2                       | 4 1/2                                                       |
|                        | S                                                                                                     | 1 5/8                                                   | 1 1/2               | 2 23/32                                  | 2 23/32                                                  | 2 3/4                                                    |                                                          | 2 23/32                                         | 3.50 MAX                | 3.62                    | 6                                                  | 3 1/4                   | 3 1/4                       | 3 1/4                                                       |
|                        | T                                                                                                     | = X                                                     | 1 3/4               | 2 31/32                                  | 2 31/32                                                  | 3 1/4                                                    |                                                          | 2 31/32                                         | 7.0 MAX                 | 5.64                    | NONE                                               | 5 1/4                   | 5 1/4                       | 5 1/4                                                       |
|                        | U                                                                                                     | = X                                                     | 3 1/8               | 4 3/4                                    | 4 3/4                                                    | 4 13/16                                                  |                                                          | 4 3/4                                           |                         | .56 R                   | NONE                                               | NONE                    | NONE                        | NONE                                                        |
|                        | V                                                                                                     | NONE                                                    | 3/8                 | 1/4                                      | 1/4                                                      | 1 3/16                                                   |                                                          | 1 3/16                                          |                         |                         |                                                    |                         |                             |                                                             |
|                        | W                                                                                                     | ALL ENGINES                                             | ALUMINUM ALLOY      | ALUMINUM ALLOY                           | ALUMINUM ALLOY                                           | ALUMINUM ALLOY                                           |                                                          | ALUMINUM ALLOY                                  |                         |                         |                                                    |                         |                             |                                                             |
|                        | X                                                                                                     | 3 3/8 OR MIN.                                           | 3.3 OR MIN.         | 6 OR MIN.                                | 7.5 OR MIN.                                              | 7.0 OR MIN.                                              | 9.5 OR MIN.                                              | 8.0 OR MIN.                                     | 9.1 OR MIN.             | 6 OR MIN.               | 7.10 OR MIN.                                       | 11.10 OR MIN.           | 13.0 OR MIN.                | 7.5 OR MIN.                                                 |
|                        | Y                                                                                                     | 2 1/8 OR MIN.                                           | 2.2 OR MIN.         | 5 5/8 OR MIN.                            | 6 3/4 OR MIN.                                            | 5 OR MIN.                                                | 6.0 OR MIN.                                              | 6.4 OR MIN.                                     | 6.5 OR MIN.             | 6 3/4 OR MIN.           | 5.3 OR MIN.                                        | 9.5 OR MIN.             | 10.9 OR MIN.                | 6 3/4 OR MIN.                                               |
|                        | Z                                                                                                     | 3 1/2 LBS MIN.                                          | 4 LBS MIN.          | 3 3/4 LBS MIN.                           | 4 1/2 LBS MIN.                                           | 5 LBS MIN.                                               | 5 LBS 4 OZ MIN.                                          | 3 LBS 13 OZ MIN.                                | 7 LBS 1 OZ MIN.         | 10 LBS 10 OZ MIN.       | 10 LBS 10 OZ MIN.                                  | 10 LBS 10 OZ MIN.       | 10 LBS 10 OZ MIN.           | 10 LBS 10 OZ MIN.                                           |
|                        | Ra                                                                                                    | 9103 PP                                                 | BR-121610           | BR-121610                                | BR-121610                                                | BR-121610                                                | BR-121610                                                | BR-121610                                       | BR-121610               | BR-121610               | BR-121610                                          | BR-121610               | BR-121610                   | BR-121610                                                   |
| 8                      | BEARING SPECIFICATIONS                                                                                |                                                         |                     |                                          |                                                          |                                                          |                                                          |                                                 |                         |                         |                                                    |                         |                             |                                                             |
|                        | NOTE:<br>OTHER STANDARD MAKES OF<br>BEARINGS OF EQUAL SIZE AND<br>EQUAL QUALITY MAY BE<br>SUBSTITUTED |                                                         |                     |                                          |                                                          |                                                          |                                                          |                                                 |                         |                         |                                                    |                         |                             |                                                             |
|                        | 1                                                                                                     | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 2                                                                                                     | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 3                                                                                                     | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 4                                                                                                     | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 5                                                                                                     | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 6                                                                                                     | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 7                                                                                                     | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 8                                                                                                     | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 9                                                                                                     | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 10                                                                                                    | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 11                                                                                                    | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 12                                                                                                    | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
|                        | 13                                                                                                    | B-128X                                                  | 204K                | 205K                                     | 205K                                                     | 205K                                                     | 205K                                                     | 205K                                            | 205K                    | 205K                    | 205K                                               | 205K                    | 205K                        | 205K                                                        |
| 9                      | NO. & SIZE OF EXHAUST RELIEF HOLES                                                                    | 4-1/8" DIA                                              | CAST SNOUT          | 10-5/32" DIA                             | 10-5/32" DIA                                             | 2-.201 DIA                                               | CAST SLET                                                | 5/16 X 1 3/4 CAST                               | CAST SNOUT              | CAST SNOUT              | CAST SNOUT                                         | CAST SNOUT              | CAST SNOUT                  | CAST SNOUT                                                  |
|                        | REED STOP HEIGHT                                                                                      | 7/64                                                    | 7/64                | 5/32                                     | 5/32                                                     | 3/16                                                     | 1/30 AT .915 ± 1/32                                      | 3/16                                            | 5/32                    | 5/32                    | 5/32                                               | 5/32                    | 5/32                        | 5/32                                                        |

