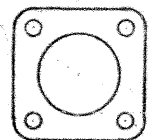
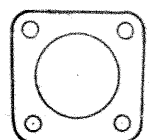
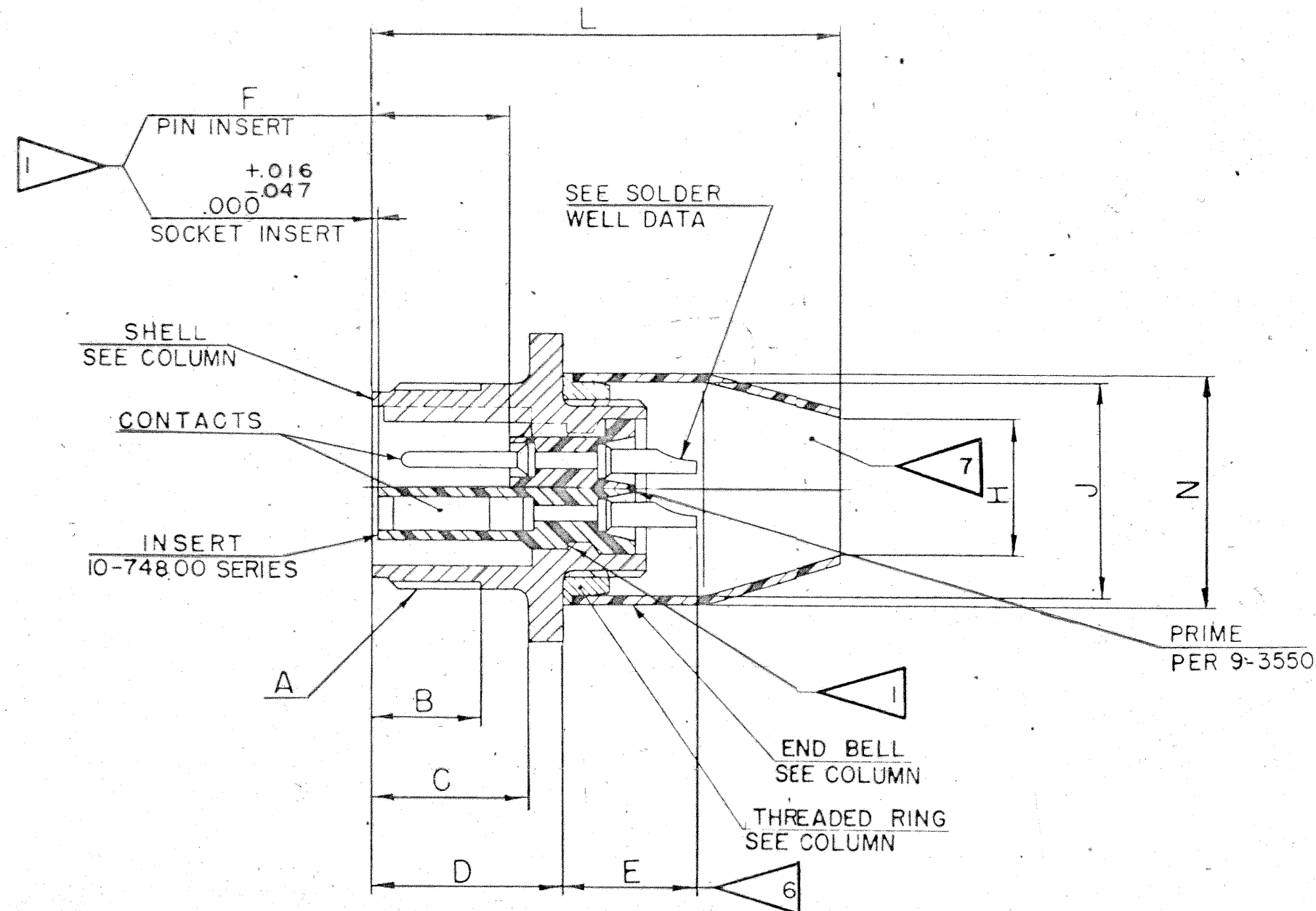
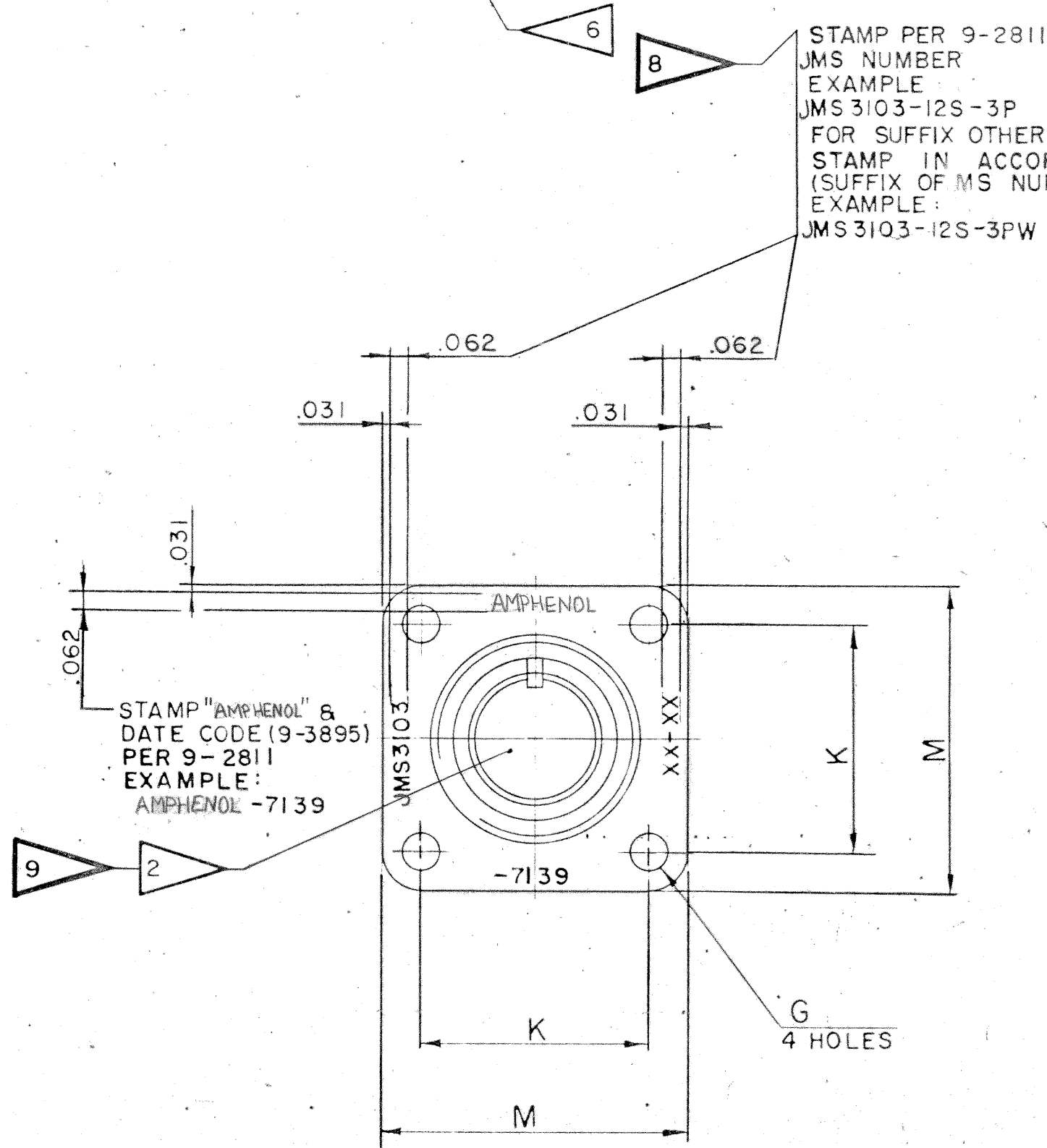


| REV | 35508-45 | WAS                                                           | DATE   | D'MAN   | APPD      |
|-----|----------|---------------------------------------------------------------|--------|---------|-----------|
| 1   | CNR      | ADDED COL N                                                   | 4-1-59 | HUDOCK  |           |
| A   | 53249    | (MFG); ADD. 9-3895<br>(PRO SPEC); REV<br>STAMPING NOTE (IPLC) | 1-3-72 | Randall | Hay       |
| B   |          | (CL II) SEE ECN<br>91399                                      |        | onloc   | for clear |

| ASSY NO.   | MS NO.   | SHELL      | THREADED RING | END BELL   | DIMENSIONS           |               |                         |                     |                      |                       |                       |                              |          |                              |            |          |       |                       |
|------------|----------|------------|---------------|------------|----------------------|---------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|------------------------------|----------|------------------------------|------------|----------|-------|-----------------------|
|            |          |            |               |            | A<br>THREAD (PLATED) |               | B<br>MIN<br>FULL<br>THD | C<br>+0.10<br>-0.00 | D<br>+0.020<br>-0.10 | E<br>+0.050<br>-0.060 | F<br>+0.016<br>-0.047 | G<br>DIA<br>+0.004<br>-0.002 | H<br>DIA | J<br>DIA<br>+0.010<br>-0.000 | K<br>±.005 | L<br>MAX | M     | N<br>+ .030<br>- .020 |
|            |          |            |               |            | SIZE<br>CLASS 2A     | PITCH<br>DIA  |                         |                     |                      |                       |                       |                              |          |                              |            |          |       |                       |
| 10-189025- | 3103-BS- | 10-37260-8 | 10-183340-83  | 10-36298-8 | .5000-28 UNEF        | .4768-.4720   | .391                    | .562                | .672                 | .422                  | .492                  | .120                         | .288     | .516                         | .594       | 1.375    | .875  | .578                  |
| 10-189026- | -10S-    | -10        | -103          | -10        | .6250-24 NEF         | .5979-.5927   | .391                    |                     |                      |                       |                       |                              | .359     | .609                         | .719       |          | 1.000 | .671                  |
| 10-189027- | -10SL-   | -11        | -123          | -12        | .6250-24 NEF         | .5979-.5927   | .391                    |                     |                      |                       |                       |                              | .484     | .766                         | .719       |          | 1.000 | .828                  |
| 10-189028- | -12S-    | -12        | -123          | -12        | .7500-20 UNEF        | .7175-.7118   | .450                    |                     |                      |                       |                       |                              | .484     | .766                         | .812       |          | 1.094 | .828                  |
| 10-189029- | -12-     | -13        | -123          | -13        | .7500-20 UNEF        | .7175-.7118   | .625                    | .750                | .860                 | .672                  | .679                  |                              | .484     | .766                         | .812       | 1.780    | 1.094 | .828                  |
| 10-189030- | -14S-    | -14        | -143          | -14        | .8750-20 UNEF        | .8425-.8368   | .450                    | .562                | .672                 | .422                  | .492                  |                              | .609     | .844                         | .906       | 1.375    | 1.188 | .906                  |
| 10-189031- | -14-     | -15        | -143          | -15        | .8750-20 UNEF        | .8425-.8368   | .625                    | .750                | .860                 | .672                  | .679                  |                              | .609     | .844                         | .906       | 1.781    | 1.188 | .906                  |
| 10-189032- | -16S-    | -16        | -163          | -16        | 1.0000-20 UNEF       | .9675-.9616   | .450                    | .562                | .672                 | .422                  | .492                  |                              | .734     | .969                         | .969       | 1.375    | 1.281 | 1.031                 |
| 10-189033- | -16-     | -17        | -163          | -17        | 1.0000-20 UNEF       | .9675-.9616   | .625                    | .750                | .860                 | .672                  | .679                  |                              | .734     | .969                         | .969       | 1.781    | 1.281 | 1.031                 |
| 10-189034- | -18-     | -18        | -183          | -18        | 1.1250-18 NEF        | 1.0889-1.0828 |                         |                     | .891                 | .641                  |                       |                              | .859     | 1.094                        | 1.063      | 1.812    | 1.375 | 1.156                 |
| 10-189035- | -20-     | -20        | -203          | -20        | 1.2500-18 NEF        | 1.2139-1.2075 |                         |                     |                      |                       |                       |                              | .984     | 1.219                        | 1.156      |          | 1.500 | 1.281                 |
| 10-189036- | -22-     | -22        | -223          | -22        | 1.3750-18 NEF        | 1.3389-1.3325 |                         |                     |                      |                       |                       |                              | 1.109    | 1.344                        | 1.250      |          | 1.625 | 1.406                 |
| 10-189037- | -24-     | -24        | -243          | -24        | 1.5000-18 NEF        | 1.4639-1.4574 |                         | .812                | .953                 | .578                  |                       | .147                         | 1.234    | 1.469                        | 1.375      |          | 1.750 | 1.531                 |
| 10-189038- | -28-     | -28        | -283          | -28        | 1.7500-18 NS         | 1.7139-1.7073 |                         | .812                | .953                 | .578                  |                       | .147                         | 1.427    | 1.719                        | 1.562      |          | 2.000 | 1.781                 |
| 10-189039- | -32-     | -32        | -323          | -32        | 2.0000-18 NS         | 1.9639-1.9573 |                         | .875                | 1.031                | .500                  |                       | .173                         | 1.708    | 2.000                        | 1.750      | 1.828    | 2.250 | 2.052                 |
| 10-189040- | -36-     | -36        | -363          | -36        | 2.2500-16 UN         | 2.2094-2.2024 |                         |                     |                      |                       |                       |                              | 1.895    | 2.219                        | 1.938      |          | 2.500 | 2.281                 |
| 10-189041- | -40-     | -40        | -403          | -40        | 2.5000-16 UN         | 2.4594-2.4522 |                         |                     |                      |                       |                       |                              | 2.130    | 2.469                        | 2.188      |          | 2.750 | 2.531                 |

| ACCESSORIES<br>(NOT PART OF STANDARD ASSEMBLY)                                     |                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| FLANGE GASKET,<br>PLAIN<br>10-40450-(SHELL SIZE)                                   | FLANGE GASKET,<br>SHIELDING<br>10-40450-(SHELL SIZE)                               |



NOTES: REF SYMBOL ◁

- INSERTS & CONTACTS ARE REMOVABLE.
- SEE WORK ORDER FOR PERMISSIBLE ADDITIONAL OR ALTERNATE STAMPING.
- SIZE "O" CONTACTS MUST BE INDIVIDUALLY POTTED. USE VINYL TUBING, OR EQUIVALENT, OF SUITABLE LENGTH AND DIAMETER, EXTENDING INTO MAIN POTTED AREA.
- INCREASE E DIMENSION BY .312 FOR SIZE "O" CONTACTS ONLY.
- THE UNITS ILLUSTRATED WILL MEET THE PERFORMANCE, MATERIAL & FINISH REQUIREMENTS OF MS3103 PER MIL-C-50150.
- TO COMPLETE ASSEMBLY NUMBER & MS NO., ADD APPLICABLE INSERT ARRANGEMENT SUFFIX TO BASE NUMBERS LISTED ABOVE. TO DETERMINE DESIRED INSERT ARRANGEMENT, SEE PARTS LISTS 10-189025 THRU 10-189041.
- FOR MATING PLUG ASSEMBLIES, SEE DRAWINGS 10-63008/40 & OTHERS.
- FOR CONTACT SIZE, SPACING AND SERVICE RATING, SEE DRAWINGS AND 10425 THRU AND 10436
- DIMENSIONS MUST BE MAINTAINED WHEN INSERTS ARE PRESSED FIRMLY AGAINST INDICATED SHOULDER.

10-189025 THRU  
10-189041

USE OF THIS DOCUMENT IS UNLIMITED. DOCUMENTS  
REPRODUCED HEREON CONTAIN LIMITED RIGHTS DATA.

| SOLDER WELL DATA |                                         |                                         |                                         |                                         |                                         |                                         |
|------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| CONTACT SIZE     | 0                                       | 4                                       | 8                                       | 12                                      | 16                                      | 16M                                     |
| WELL DIA         | .469 <sup>+0.005</sup> <sub>-.003</sub> | .332 <sup>+0.005</sup> <sub>-.003</sub> | .209 <sup>+0.004</sup> <sub>-.002</sub> | .116 <sup>+0.004</sup> <sub>-.002</sub> | .078 <sup>+0.004</sup> <sub>-.002</sub> | .078 <sup>+0.004</sup> <sub>-.002</sub> |
| WELL DEPTH       | <sup>+0.031</sup> <sub>-.000</sub>      | .625                                    | .500                                    | .500                                    | .250                                    | .188                                    |

|                   |  |                                                                                              |  |                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|--|----------------------------|--|----------|--|-------|--|---------------|--|----------------------------|--|
| MATERIAL SPEC.    |  | PROCESS SPEC<br>TEST<br>9-3106-5<br>ASSY<br>9-3103-1<br>9-3550<br>9-2437<br>9-2811<br>9-3895 |  | SCINTILLA MAGNETO DIVISION<br>BENDIX AVIATION CORPORATION<br>SIDNEY, N.Y. U.S.A. |  | TOLERANCES UNLESS OTHERWISE SPECIFIED<br>FRACTIONS: 1/16, 1/8, 1/4, 1/2, 3/4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 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404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000 |  | NEXT ASSEMBLY |  | WEIGHT LBS. SEE PARTS LIST |  |          |  |       |  |               |  |                            |  |
| HEAT TREAT. SPEC. |  | D MAN                                                                                        |  | CHECKER                                                                          |  | MAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | BY            |  | CH D MAN                   |  | APPROVED |  | SCALE |  | SUPERSEDED BY |  | AND IS NOT INTERCHANGEABLE |  |
|                   |  | KOVARIK                                                                                      |  | Horton                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 11-2458       |  | 12-10-18                   |  | 12-10-18 |  | NONE  |  | 10-87249/64   |  | 10-189025 THRU 10-189041   |  |