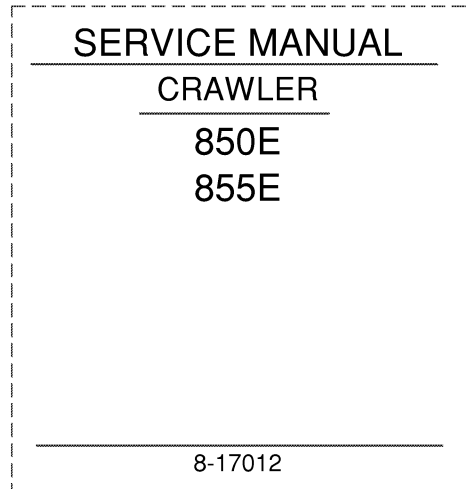


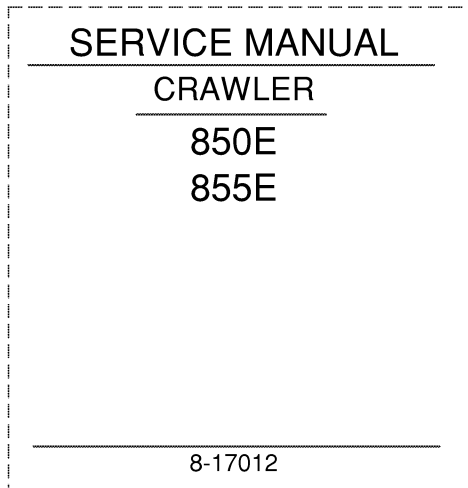
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



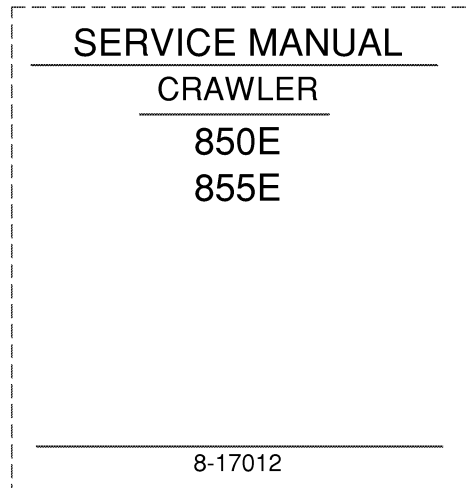
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

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Reprinted



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Section 1001

STANDARD TORQUE SPECIFICATIONS

CASE CORPORATION
700 State Street
Racine, WI 53404 U.S.A.

CASE CANADA CORPORATION
3350 South Service Road
Burlington, ON L7N 3M6 CANADA

Rac 8-71601

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TORQUE SPECIFICATIONS - DECIMAL HARDWARE

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers dry, or when lubricated with engine oil. Not applicable if special graphities, Molydisulfide greases, or other extreme pressure lubricants are used.

| Grade 5 Bolts, Nuts, and Studs | | |
|---|--------------|---------------|
|  | | |
| Size | Pound-Inches | Newton metres |
| 1/4 inch | 108 to 132 | 12 to 15 |
| 5/16 inch | 204 to 252 | 23 to 28 |
| 3/8 inch | 420 to 504 | 48 to 57 |
| Size | Pound-Feet | Newton metres |
| 7/16 inch | 54 to 64 | 73 to 87 |
| 1/2 inch | 80 to 96 | 109 to 130 |
| 9/16 inch | 110 to 132 | 149 to 179 |
| 5/8 inch | 150 to 180 | 203 to 244 |
| 3/4 inch | 270 to 324 | 366 to 439 |
| 7/8 inch | 400 to 480 | 542 to 651 |
| 1.0 inch | 580 to 696 | 787 to 944 |
| 1-1/8 inch | 800 to 880 | 1085 to 1193 |
| 1-1/4 inch | 1120 to 1240 | 1519 to 1681 |
| 1-3/8 inch | 1460 to 1680 | 1980 to 2278 |
| 1-1/2 inch | 1940 to 2200 | 2631 to 2983 |


| Grade 8 Bolts, Nuts, and Studs | | |
|--|--------------|---------------|
|  | | |
| Size | Pound-Inches | Newton metres |
| 1/4 inch | 144 to 180 | 16 to 20 |
| 5/16 inch | 288 to 348 | 33 to 39 |
| 3/8 inch | 540 to 648 | 61 to 73 |
| Size | Pound-Feet | Newton metres |
| 7/16 inch | 70 to 84 | 95 to 114 |
| 1/2 inch | 110 to 132 | 149 to 179 |
| 9/16 inch | 160 to 192 | 217 to 260 |
| 5/8 inch | 220 to 264 | 298 to 358 |
| 3/4 inch | 380 to 456 | 515 to 618 |
| 7/8 inch | 600 to 720 | 814 to 976 |
| 1.0 inch | 900 to 1080 | 1220 to 1465 |
| 1-1/8 inch | 1280 to 1440 | 1736 to 1953 |
| 1-1/4 inch | 1820 to 2000 | 2468 to 2712 |
| 1-3/8 inch | 2380 to 2720 | 3227 to 3688 |
| 1-1/2 inch | 3160 to 3560 | 4285 to 4827 |


NOTE: Use thick nuts with Grade 8 bolts.

TORQUE SPECIFICATIONS - METRIC HARDWARE

Use the following torques when specifications are not given.

These values apply to fasteners with coarse threads as received from supplier, plated or unplated, or when lubricated with engine oil. These values do not apply if graphite or Molydisulfide grease or oil is used.

| Grade 8.8 Bolts, Nuts, and Studs | | |
|---|--------------|---------------|
|  | | |
| Size | Pound-Inches | Newton metres |
| M4 | 24 to 36 | 3 to 4 |
| M5 | 60 to 72 | 7 to 8 |
| M6 | 96 to 108 | 11 to 12 |
| M8 | 228 to 276 | 26 to 31 |
| M10 | 456 to 540 | 52 to 61 |
| Size | Pound-Feet | Newton metres |
| M12 | 66 to 79 | 90 to 107 |
| M14 | 106 to 127 | 144 to 172 |
| M16 | 160 to 200 | 217 to 271 |
| M20 | 320 to 380 | 434 to 515 |
| M24 | 500 to 600 | 675 to 815 |
| M30 | 920 to 1100 | 1250 to 1500 |
| M36 | 1600 to 1950 | 2175 to 2600 |

| Grade 10.9 Bolts, Nuts, and Studs | | |
|---|--------------|---------------|
|  | | |
| Size | Pound-Inches | Newton metres |
| M4 | 36 to 48 | 4 to 5 |
| M5 | 84 to 96 | 9 to 11 |
| M6 | 132 to 156 | 15 to 18 |
| M8 | 324 to 384 | 37 to 43 |
| Size | Pound-Feet | Newton metres |
| M10 | 54 to 64 | 73 to 87 |
| M12 | 93 to 112 | 125 to 150 |
| M14 | 149 to 179 | 200 to 245 |
| M16 | 230 to 280 | 310 to 380 |
| M20 | 450 to 540 | 610 to 730 |
| M24 | 780 to 940 | 1050 to 1275 |
| M30 | 1470 to 1770 | 2000 to 2400 |
| M36 | 2580 to 3090 | 3500 to 4200 |

Grade 12.9 Bolts, Nuts, and Studs



Usually the torque values specified for grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

| Tube OD Hose ID | Thread Size | Pound- Inches | Newton metres |
|--------------------------------|----------------|------------------|------------------|
| 37 Degree Flare Fitting | | | |
| 1/4 inch 6.4 mm | 7/16-20 | 72 to 144 | 8 to 16 |
| 5/16 inch 7.9 mm | 1/2-20 | 96 to 192 | 11 to 22 |
| 3/8 inch 9.5 mm | 9/16-18 | 120 to 300 | 14 to 34 |
| 1/2 inch 12.7 mm | 3/4-16 | 180 to 504 | 20 to 57 |
| 5/8 inch 15.9 mm | 7/8-14 | 300 to 696 | 34 to 79 |
| Tube OD Hose ID | Thread Size | Pound- Inches | Newton metres |
| 3/4 inch 19.0 mm | 1-1/16-12 | 40 to 80 | 54 to 108 |
| 7/8 inch 22.2 mm | 1-3/16-12 | 60 to 100 | 81 to 135 |
| 1.0 inch 25.4 mm | 1-5/16-12 | 75 to 117 | 102 to 158 |
| 1-1/4 inch 31.8 mm | 1-5/8-12 | 125 to 165 | 169 to 223 |
| 1-1/2 inch 38.1 mm | 1-7/8-12 | 210 to 250 | 285 to 338 |

| Tube OD Hose ID | Thread Size | Pound- Inches | Newton metres |
|-------------------------------------|----------------|------------------|------------------|
| Straight Threads with O-ring | | | |
| 1/4 inch 6.4 mm | 7/16-20 | 144 to 228 | 16 to 26 |
| 5/16 inch 7.9 mm | 1/2-20 | 192 to 300 | 22 to 34 |
| 3/8 inch 9.5 mm | 9/16-18 | 300 to 480 | 34 to 54 |
| 1/2 inch 12.7 mm | 3/4-16 | 540 to 804 | 57 to 91 |
| Tube OD Hose ID | Thread Size | Pound- Inches | Newton metres |
| 5/8 inch 15.9 mm | 7/8-14 | 58 to 92 | 79 to 124 |
| 3/4 inch 19.0 mm | 1-1/16-12 | 80 to 128 | 108 to 174 |
| 7/8 inch 22.2 mm | 1-3/16-12 | 100 to 160 | 136 to 216 |
| 1.0 inch 25.4 mm | 1-5/16-12 | 117 to 187 | 159 to 253 |
| 1-1/4 inch 31.8 mm | 1-5/8-12 | 165 to 264 | 224 to 357 |
| 1-1/2 inch 38.1 mm | 1-7/8-12 | 250 to 400 | 339 to 542 |

| Split Flange Mounting Bolts | | |
|------------------------------------|------------------|------------------|
| Size | Pound- Inches | Newton metres |
| 5/16-18 | 180 to 240 | 20 to 27 |
| 3/8-16 | 240 to 300 | 27 to 34 |
| 7/16-14 | 420 to 540 | 47 to 61 |
| Size | Pound- Feet | Newton metres |
| 1/2-13 | 55 to 65 | 74 to 88 |
| 5/8-11 | 140 to 150 | 190 to 203 |

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

| Nom. SAE Dash Size | Tube OD | Thread Size | Pound-Inches | Newton metres | Thread Size | Pound-Inches | Newton metres |
|-----------------------------|-----------------------|-------------|--------------|---------------|--|--------------|---------------|
| O-ring Face Seal End | | | | | O-ring Boss End Fitting or Lock Nut | | |
| -4 | 1/4 inch 6.4 mm | 9/16-18 | 120 to 144 | 14 to 16 | 7/16-20 | 204 to 240 | 23 to 27 |
| -6 | 3/8 inch 9.5 mm | 11/16-16 | 216 to 240 | 24 to 27 | 9/16-18 | 300 to 360 | 34 to 41 |
| -8 | 1/2 inch 12.7 mm | 13/16-16 | 384 to 480 | 43 to 54 | 3/4-16 | 540 to 600 | 61 to 68 |
| | | | | | Thread Size | Pound-Inches | Newton metres |
| -10 | 5/8 inch 15.9 mm | 1-14 | 552 to 672 | 62 to 76 | 7/8-14 | 60 to 65 | 81 to 88 |
| Nom. SAE Dash Size | Tube OD | Thread Size | Pound-Inches | Newton metres | 1-1/16-12 | 85 to 90 | 115 to 122 |
| | | | | | 1-3/16-12 | 95 to 100 | 129 to 136 |
| -12 | 3/4 inch 19.0 mm | 1-3/16-12 | 65 to 80 | 90 to 110 | 1-5/16-12 | 115 to 125 | 156 to 169 |
| -14 | 7/8 inch 22.2 mm | 1-3/16-12 | 65 to 80 | 90 to 110 | 1-5/8-12 | 150 to 160 | 203 to 217 |
| -16 | 1.0 inch 25.4 mm | 1-7/16-12 | 92 to 105 | 125 to 140 | 1-7/8-12 | 190 to 200 | 258 to 271 |
| -20 | 1-1/4 inch 31.8 mm | 1-11/16-12 | 125 to 140 | 170 to 190 | | | |
| -24 | 1-1/2 inch 38.1 mm | 2-12 | 150 to 180 | 200 to 254 | | | |

NOTE: Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

Section

1002

FLUIDS AND LUBRICANTS

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CAPACITIES AND LUBRICANTS

Engine Oil

Capacity with filter change 11 U.S. quarts (10.4 litres)
Type of oil See Engine Oil Selection on page 3

Engine Cooling System

Capacity 20 U.S. quarts (19 litres)
Type of coolant Ethylene glycol and water mixed for lowest ambient temperature (at least half water and half coolant)

Fuel Tank

Capacity 47 U.S. gallons (178 litres)
Type of fuel Diesel Fuel

Hydraulic System

Hydraulic reservoir refill capacity 13.6 U.S. gallons (51.5 litres)
Type of oil Case TCH Fluid

Transmission

Capacity 8 U.S. gallons (30 litres)
Type of oil Case TCH Fluid

Final Drives

Refill capacity (each side) 7.5 U.S. quarts (7 litres)
Type of oil Case IH 135-H EP Gear Lube

ENGINE LUBRICATION

Engine Oil Selection

Case No. 1 Engine Oil is specified for use in your Case Engine. Case Engine Oil will lubricate your engine correctly under all operating conditions.

If Case No. 1 Multi-Viscosity or Single Grade Engine Oil is not available, use only oil meeting API engine oil service category CE.



654L9

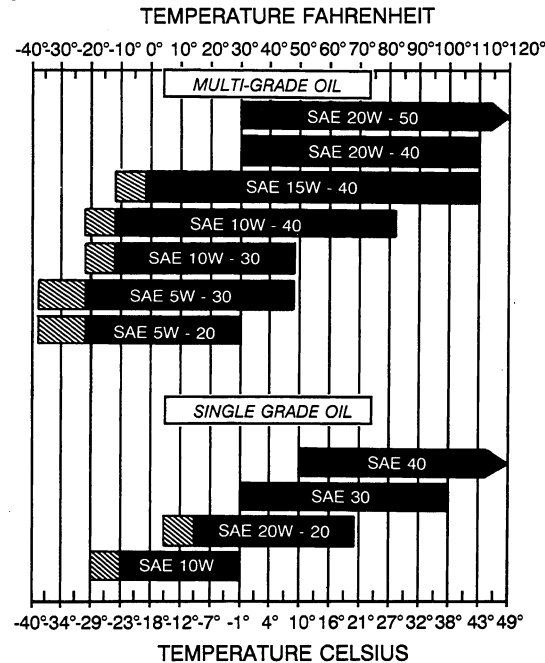


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See the chart below for recommended viscosity at ambient air temperature ranges.

NOTE: Do not put Performance Additives or other oil additive products in the engine crankcase. The oil change intervals given in this manual are according to tests with Case engine oils.

Oil Viscosity / Temperature Ranges



1036L0

 **NOTE:** Use of an engine oil pan heater or an engine coolant heater is required when operating temperatures are in these areas.

LOCTITE PRODUCT CHART

| Product | Color | Similar Products | Gap (In Inches) | Strength (Steel/Steel) | Working Temperature Range-Fahrenheit | Fixture/Full Cure (Steel/Steel) Time | Primer | Description |
|---------|-------------|------------------|-----------------|------------------------|--------------------------------------|--------------------------------------|--------|--|
| #3 | Dark Brown | | | | | 24 hr | N/A | Form a Gasket (works with oil, fuel or grease) Pliable |
| 80 | Yellow | | | | | Fast | N/A | Weatherstrip Adhesive |
| 123 | Clear | | | | | N/A | N/A | Parts Cleaner Fluid |
| 220 | Blue | 290 | 0.003 | 57/143 in lbs | -65 to +250 | 6 min/24 hrs | 747 | Wicking Threadlocker |
| 221 | Purple | 222 | 0.005 | 75/44 in lbs | -65 to +300 | 2 min/24 hrs | 747 | Low Strength Threadlocker |
| 222 | Purple | | 0.005 | 53/30 in lbs | -65 to +300 | 20 min/24 hrs | 764 | Low Strength Threadlocker (Small Screws) |
| 225 | Brown | 222 | 0.010 | 45/25 in lbs | -65 to +300 | 7 min/24 hrs | 747 | Low Strength Threadlocker |
| 242 | Blue | | 0.005 | 80/50 in lbs | -65 to +300 | 10 min/24 hrs | 764 | Medium Strength Threadlocker |
| 262 | Red | 271 | 0.005 | 160/190 in lbs | -65 to +300 | 5 min/24 hrs | 747 | High Strength Threadlocker |
| 270 | Green | 271 | 0.007 | 160/320 in lbs | -65 to +300 | 3 min/24 hrs | 747 | High Strength Threadlocker |
| 271 | Red | 262 | 0.007 | 160/320 in lbs | -65 to +300 | 10 min/24 hrs | 764 | High Strength Threadlocker |
| 272 | Red | 620 | 0.007 | 180/220 in lbs | -65 to +450 | 30 min/24 hrs | 764 | High Temperature, High Strength |
| 275 | Green | 277 | 0.010 | 210/300 in lbs | -65 to +300 | 3 min/24 hrs | 747 | High Strength Threadlocker |
| 277 | Red | | 0.010 | 225/300 in lbs | -65 to +300 | 60 min/24 hrs | 764 | High Strength Threadlocker |
| 290 | Green | | 0.003 | 85/350 in lbs | -65 to +300 | 6 min/24 hrs | 764 | Wicking Threadlocker |
| *404 | Clear | 495 | 0.006 | 3200 psi | -65 to +180 | 30 sec/24 hrs | NA | Instant Adhesive |
| *406 | Clear | | 0.004 | 3200 psi | -65 to +180 | 15 sec/24 hrs | N/A | Surface Insensitive Adhesive |
| *409 | Clear | 454 | 0.008 | 2500 psi | -65 to +180 | 50 sec/24 hrs | N/A | Gel Instant Adhesive |
| *414 | Clear | | 0.006 | 2500 psi | -65 to +180 | 30 sec/24 hr | N/A | Instant Adhesive |
| *415 | Clear | 454 | 0.010 | 2500 psi | -65 to +180 | 50 sec/24 hrs | N/A | Gap Filling Instant Adhesive (Metals) |
| *416 | Clear | 454 | 0.010 | 2500 psi | -65 to +180 | 50 sec/24 hrs | N/A | Gap Filling Instant Adhesive (Plastics) |
| *420 | Clear | | 0.002 | 2500 psi | -65 to +180 | 15 sec/24 hrs | N/A | Wicking Instant Adhesive |
| *422 | Clear | 454 | 0.020 | 2800 psi | -65 to +180 | 60 sec/24 hrs | N/A | Gap Filling Instant Adhesive |
| *430 | Clear | | 0.005 | 2500 psi | -65 to +180 | 20 sec/24 hrs | N/A | Metal Bonding Adhesive |
| *445 | White/Black | | 0.250 | 2000 psi | -65 to +180 | 5 min/24 hrs | N/A | Fast Setting 2 Part Epoxy |
| *454 | Clear | | 0.010 | 3200 psi | -65 to +180 | 15 sec/24 hrs | N/A | Surface Insensitive Gen Instant Adhesive |
| *495 | Clear | | 0.004 | 2500 psi | -65 to +180 | 20 sec/24 hrs | N/A | General Purpose Instant Adhesive |
| *496 | Clear | | 0.005 | 2500 psi | -65 to +180 | 20 sec/24 hrs | N/A | Metal Bonding Adhesive |
| 504 | Brt Orange | 515 | 0.030 | 750 psi | -65 to +300 | 90 min/24 hrs | None | Rigid Gasket Eliminator |
| 509 | Light Blue | | 0.020 | 750 psi | -65 to +320 | 6 hr/72 hrs | 764 | Flange Sealant |
| 510 | Red | | 0.020 | 1000 psi | -65 to +400 | 30 min/24 hrs | 764 | High Temperature, Gasket Eliminator |
| 515 | Purple | | 0.010 | 750 psi | -65 to +300 | 1 hr/24 hrs | 764 | Gasket Eliminator 515 |

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* Products 404-496 (except for #445) are all instant adhesives (super glues) they differ mostly in viscosity

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LOCTITE PRODUCT CHART

| Product | Color | Similar Products | Gap (In Inches) | Strength (Steel/Steel) | Working Temperature Range-Fahrenheit | Fixture/Full Cure (Steel/Steel) Time | Primer | Description |
|---------|--------|------------------|-----------------|------------------------|--------------------------------------|--------------------------------------|--------|--|
| 518 | Red | 515 | 0.030 | 500psi | -65 to +300 | 1 hr/24 hrs | 764 | Gasket Eliminator 518 for Aluminum |
| 542 | Brown | 569 | N/A | 132/92 in lbs | -65 to +300 | 2 hr/24 hrs | 747 | Hydraulic Sealant |
| 545 | Purple | | N/A | 25/20 in lbs | -65 to +300 | 4 hr/24 hrs | 747 | Low Strength Pneumatic/Hydraulic Sealant |
| 549 | Orange | 504 | 0.020 | 2500 psi | -65 to +300 | 2 hr/24 hrs | 747 | Instant Seal Plastic Gasket |
| 554 | Red | 277 | 0.015 | 240/240 in lbs | -65 to +300 | 2 to 4 hrs/24 hrs | 764 | Refrigerant Sealant |
| 567 | White | 592 | N/A | 500 psi | -65 to +400 | 4 hrs/24 hrs | 764 | Pipe Sealant for Stainless Steel |
| 568 | Orange | 277 | 0.015 | 2500 psi | -65 to +300 | 12 hrs/24 hrs | 764 | Plastic Gasket |
| 569 | Brown | 545 | 0.010 | 40/25 in lbs | -65 to +300 | 1 hr/24 hrs | 764 | Hydraulic Sealant |
| 570 | Brown | 592 | N/A | 25/40 in lbs | -65 to +300 | 6 hrs/72 hrs | 764 | Steam Sealant |
| 571 | Brown | 592 | 0.015 | 40/20 in lbs | -65 to +300 | 2 to 4 hrs/24 hrs | 764 | Pipe Sealant |
| 572 | White | 578.575 | N/A | 80/27 in lbs | -65 to +300 | 24 hrs/72 hrs | None | Gasketing |
| 592 | White | | 0.020 | 500 psi | -65 to +400 | 4 hrs/72 hrs | 736 | Pipe Sealant with Teflon |
| 593 | Black | | 0.250 | 400 psi | -95 to +400 | 30 min/24 hrs | N/A | RTV Silicone |
| 601 | Green | 609 | 0.005 | 3000 psi | -65 to +300 | 10 min/24 hrs | 764 | Current PIN #609 |
| 609 | Green | | 0.005 | 3000 psi | -65 to +300 | 10 min/24 hrs | 764 | General Purpose Retaining Compound |
| 620 | Green | 640 | 0.015 | 3000 psi | -65 to +450 | 30 min/24 hrs | 747 | High Temperature Retaining Compound |
| 635 | Green | 680 | 0.010 | 4000 psi | -65 to +300 | 1 hr/24 hrs | 747 | High Strength Retaining Compound |
| 638 | Green | 680 | 0.015 | 4100 psi | -65 to +300 | 10 min/24 hrs | 747 | High Strength Retaining Compound |
| 640 | Green | 620 | 0.007 | 3000 psi | -65 to +400 | 1 hr/24 hrs | 747 | High Temperature Retaining Compound |
| 660 | Silver | | 0.020 | 3000 psi | -65 to +300 | 20 min/24 hrs | 764 | Quick Metal |
| 675 | Green | 609 | 0.005 | 3000 psi | -65 to +300 | 20 min/24 hrs | 747 | General Purpose Retaining Compound |
| 680 | Green | 635 | 0.015 | 4000 psi | -65 to +300 | 10 min/24 hrs | 747 | High Strength Retaining Compound |
| 706 | Clear | 755 | N/A | N/A | N/A | N/A | N/A | Cleaning Solvent |
| 707 | Amber | | N/A | N/A | N/A | N/A | N/A | Activator for Structural Adhesives |
| 736 | Amber | | N/A | N/A | N/A | N/A | N/A | Primer NF |
| 738 | Amber | | N/A | N/A | N/A | N/A | N/A | Depend Activator |
| 747 | Yellow | N/A | N/A | N/A | N/A | N/A | N/A | Primer T |
| 751 | Clear | | N/A | N/A | N/A | N/A | N/A | Activator for Structural Adhesives |
| 755 | Clear | | N/A | N/A | N/A | N/A | N/A | Cleaning Solvent |
| 764 | Green | | N/A | N/A | N/A | N/A | N/A | Primer N |
| 767 | Silver | | N/A | N/A | -65 to +1600 | N/A | N/A | Anti-Seize Lubricant |

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Section 2000

ENGINE STALL TESTS