

# FORD MODEL 77 DRILLING MACHINE

## SECTION AB

### DRILLING MACHINE KITS

| CATALOG NUMBER      | DESCRIPTION                                                           | LIST PRICE       |
|---------------------|-----------------------------------------------------------------------|------------------|
| <b>DMO-NL</b>       | Model 77 Drilling Machine Body Only<br>(items 1 thru 8) (10 lbs.)     | <b>\$ 791.44</b> |
| <b>DMO-1-9A-NL</b>  | Model 77 Drilling Machine Only<br>(items 1 thru 9A)                   | <b>1409.29</b>   |
| <b>DMK-1-12A-NL</b> | Model 77 Drilling Machine Complete Kit<br>(items 1 thru 12) (36 lbs.) | <b>1752.17</b>   |

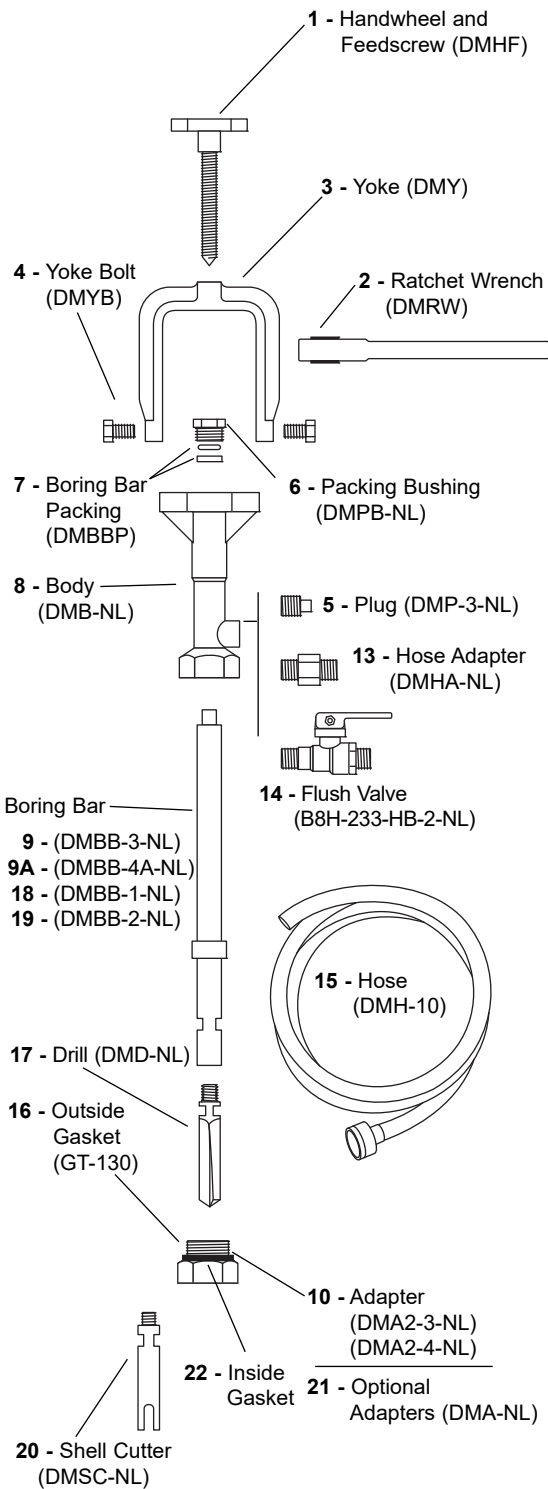
**A  
B**

### DRILLING MACHINE COMPONENTS

| REF. No. | DESCRIPTION                                                                  | CATALOG NUMBER | LIST PRICE |
|----------|------------------------------------------------------------------------------|----------------|------------|
| 1        | Handwheel and Feedscrew                                                      | DMHF           | \$ 76.97   |
| 2        | Ratchet Wrench                                                               | DMRW           | 395.94     |
| 3        | Yoke                                                                         | DMY            | 87.39      |
| 4        | Yoke Bolts (2)                                                               | DMYB           | 9.63 pr.   |
| 5        | Plug (3/4" iron pipe thread)                                                 | DMP-3-NL       | 13.98      |
| 6        | Packing Bushing                                                              | DMPB-NL        | 9.42       |
| 7        | Boring Bar Packing                                                           | DMBBP          | 4.83       |
| 8        | Body                                                                         | DMB-NL         | 193.28     |
| 9        | 3/4" Boring Bar Only (fits 11/16" drill and shell cutter for 3/4" corp stop) | DMBB-3-SS-NL   | 294.56     |
| 9A       | 1" Boring Bar Only (fits 7/8" drill and shell cutter for 1" corp stop)       | DMBB-4A-SS-NL  | 323.28     |
| 10       | 3/4" Flare Copper Adapter with Gaskets                                       | DMA2-3-NL      | 49.38      |
|          | 1" Flare Copper Adapter with Gaskets                                         | DMA2-4-NL      | 49.38      |
| 11       | Open End Adjustable Wrenches (2) 1 each of 8" and 10"                        | DMAW-PR        | 98.76 pr.  |
| 12       | Tool Box                                                                     | DMTB           | 145.36     |

### OPTIONAL ITEMS

|    |                                                                |                 |           |
|----|----------------------------------------------------------------|-----------------|-----------|
| -  | Drilling Machine Ratchet Wrench Repair Kit                     | DMRWRK          | \$ 131.83 |
| 13 | Hose Adapter for Chip Flushing                                 | DMHA-NL         | 14.55     |
| 14 | Ball Valve with Hose Threads for Chip Flushing                 | B8H-233-HB-2-NL | 110.02    |
| 15 | 10 ft. Hose for Chip Flushing                                  | DMH-10          | 41.82     |
| 16 | Outside Gasket for All Corp Stop Adapters                      | GT-130          | 3.92      |
|    | 7/16" Drill for 1/2" Corp Stop (fits boring bar DMBB-1-NL)     | DMD-1-NL        | 271.19    |
|    | 9/16" Drill for 5/8" Corp Stop (fits boring bar DMBB-2-NL)     | DMD-2-NL        | 271.19    |
|    | 11/16" Drill for 3/4" Corp Stop (fits boring bar DMBB-3-SS-NL) | DMD-3-NL        | 271.19    |
|    | 7/8" Drill for 1" Corp Stop (fits boring bar DMBB-4A-SS-NL)    | DMD-4A-NL       | 312.75    |
| 18 | Boring Bar for 7/16" Drill for 1/2" Corp Stop                  | DMBB-1-NL       | 309.52    |
| 19 | Boring Bar for 9/16" Drill for 5/8" Corp Stop                  | DMBB-2-NL       | 319.32    |
|    | 7/16" Shell Cutter for PVC (fits boring bar DMBB-1-NL)         | DMSC-1-NL       | 285.20    |
| 20 | 11/16" Shell Cutter for PVC (fits boring bar DMBB-3-SS-NL)     | DMSC-3-NL       | 285.20    |
|    | 7/8" Shell Cutter for PVC (fits boring bar DMBB-4A-SS-NL)      | DMSC-4A-NL      | 305.60    |
|    | 1/2" Flare Copper Adapter with Gaskets                         | DMA2-1-NL       | 47.59     |
|    | 5/8" Flare Copper Adapter with Gaskets                         | DMA2-2-NL       | 60.93     |
|    | *1-1/4" Flare Copper Adapter with Gaskets                      | *DMA2-5-NL      | 85.02     |
|    | 3/4" Female Iron Pipe Adapter with Gaskets                     | DMA1-3-NL       | 60.93     |
| 21 | 1" Female Iron Pipe Adapter with Gaskets                       | DMA1-4-NL       | 60.93     |
|    | *1-1/4" Female Iron Pipe Adapter with Gaskets                  | *DMA1-5-NL      | 76.78     |
|    | *1-1/4" Quick Joint Adapter with Gaskets (CTS)                 | *DMA4-5-Q-NL    | 96.93     |
|    | 3/4" Quick Joint Adapter with Gaskets (PEP)                    | DMA6-3-Q-NL     | 56.76     |
|    | 1" Quick Joint Adapter with Gaskets (PEP)                      | DMA6-4-Q-NL     | 89.39     |
|    | Inside Gasket for 1/2" Flare Copper Adapter                    | GT-106          | 2.17      |
|    | Inside Gasket for 5/8" Flare Copper Adapter                    | GT-107          | 2.17      |
|    | Inside Gasket for 3/4" Flare Copper Adapter                    | GT-118          | 0.44      |
| 22 | Inside Gasket for 1" Flare Copper Adapter                      | GT-119          | 2.17      |
|    | Inside Gasket for 1-1/4" Flare Copper Adapter                  | GT-147          | 2.27      |
|    | Inside Gasket for 3/4" Iron Pipe Adapter                       | GT-114          | 0.41      |
|    | Inside Gasket for 1" Iron Pipe Adapter                         | GT-120          | 0.43      |
|    | Inside Gasket for 1-1/4" Iron Pipe Adapter                     | GT-119          | 2.17      |



**Note:** 1-1/4", 1-1/2" and 2" adapters, cutters and boring bar on following page.

\* For use with 7/8" (1" nominal) drill or shell cutter. See following page for 1-1/4" nominal cutters and adapters.

**1-1/4", 1-1/2" AND 2" OPTIONS FOR MODEL 77**

The Ford Model 77 Drilling Machine's lightweight design and size makes it ideal for making taps up to 1". However, the Model 77 can be adapted for 1-1/4", 1-1/2" and 2" taps. The following items will allow for OCCASIONAL taps for 1-1/4", 1-1/2" and 2". Please note that the Model 77 Drilling Machine is not recommended for making ROUTINE taps larger than 1".

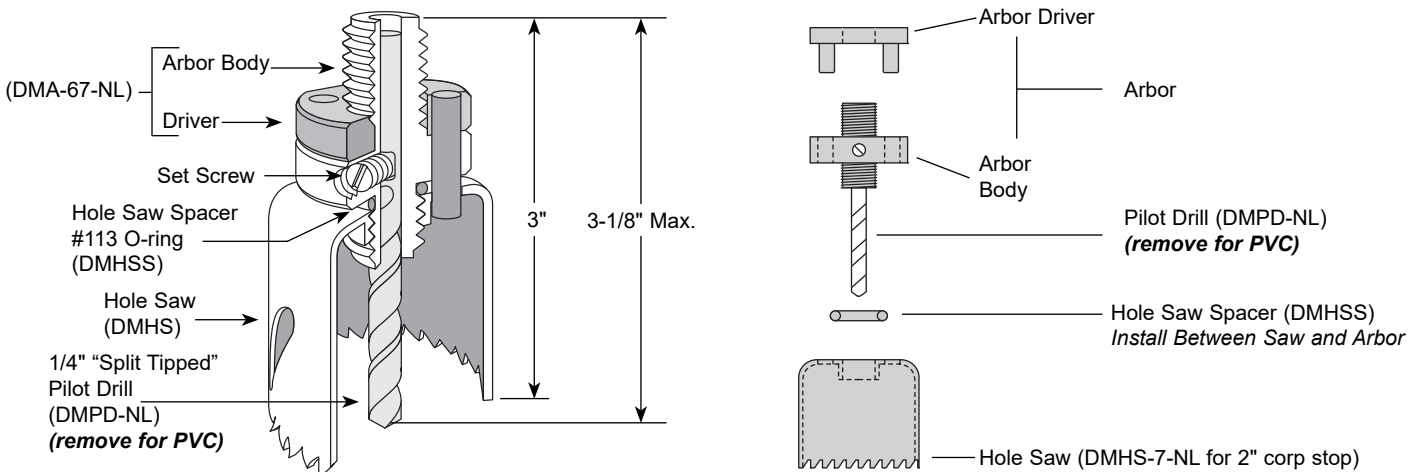
To make an 1-1/4", 1-1/2" or 2" tap the following items are required: - DMA adapter for corp being used  
- DMBB-67-SS-NL boring bar  
- DMSC shell cutters (1-1/8", 1-3/8" or 1-7/8") or DMD-5-DI-NL (1-1/8") or for 2" DMHS hole saw (1-7/8") and DMA-67-NL arbor

| CATALOG NUMBER                    | DESCRIPTION                                                                                                      | LIST PRICE |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|------------|
| <b>ADAPTERS</b>                   |                                                                                                                  |            |
| *DMA1-5F-SS-NL                    | 1-1/4" Adapter with 1-1/4" FIP Threads for Use with FB400-5-NL and FB500-5-NL Corp Stops                         | \$ 444.35  |
| DMA1-6-NL                         | 1-1/2" FIP Adapter with Gaskets for Use with FB400-6-NL and FB500-6-NL                                           | 135.71     |
| *DMA2-5F-SS-NL                    | 1-1/4" Adapter with 1-1/4" FIP Threads for Use with FB600-5-NL and FB700-5-NL Corp Stops                         | 540.56     |
| DMA2-6-NL                         | 1-1/2" Flare Copper Adapter with Gaskets for Use with FB600-6-NL and FB700-6-NL                                  | 135.71     |
| *DMA2-6F-NL                       | 1-1/4" Adapter with 1-1/2" Flare Copper Threads for Use with FB1001-5-NL and FB1101-5-NL Corp Stops              | P.O.A.     |
| *DMA4-5F-Q-SS-NL                  | 1-1/4" Quick Joint Adapter with Gaskets (use with 1-1/8" drill or shell cutter)                                  | 677.57     |
| DMA4-6-Q-NL                       | 1-1/2" Quick Joint Adapter with Gaskets                                                                          | 135.71     |
| DMA1-67-NL                        | 1-1/2" Adapter with 2" FIP Threads for Use with 1-1/2" FB800-6-NL and FB900-6-NL Corp Stops                      | 135.71     |
| DMA1-7-NL                         | 2" FIP Adapter with Gaskets for Use with FB400-7-NL and FB500-7-NL                                               | 166.85     |
| DMA2-7-NL                         | 2" Flare Copper Adapter with Gaskets for Use with FB600-7-NL and FB700-7-NL                                      | 166.85     |
| DMA4-7-Q-NL                       | 2" Quick Joint Adapter with Gaskets                                                                              | 166.85     |
| DMA4-7-Q-MR-SS-NL                 | 2" CTS Quick Joint Adapter with Gaskets (for longer Mueller corp stop)                                           | P.O.A.     |
| DMA1-78-NL                        | 2" Adapter with 2-1/2" FIP Threads for Use with 2" FB800-7-NL and FB900-7-NL Corp Stops                          | 166.85     |
| DMA8-6-SS-NL                      | 1-1/2" Adapter with 1-1/2" MIP Threads for Use with 1-1/2" FB1600-6-NL and FB1700-6-NL Corp Stop                 | 468.39     |
| DMA8-6-BSPT-SS-NL                 | 1-1/2" Adapter with 1-1/2" MIP BSPT Threads                                                                      | P.O.A.     |
| DMA8-7-SS-NL                      | 2" Adapter with 2" MIP Threads for Use with 2" FB1600-7-NL and FB1700-7-NL Corp Stop                             | 520.73     |
| DMA8-7-BSPT-SS-NL                 | 2" Adapter with 2" MIP BSPT Threads                                                                              | P.O.A.     |
| <b>DRILLS</b>                     |                                                                                                                  |            |
| DMD-5-DI-NL                       | 1-1/8" Drill for 1-1/4" Corp Stop (fits boring bar DMBB-67-SS-NL)                                                | 431.33     |
| <b>HOLE SAWS</b>                  |                                                                                                                  |            |
| DMHS-7-NL                         | 1-7/8" Hole Saw for 2" Corp Stop (fits arbor DMA-67-NL)                                                          | 117.74     |
| DMHSS                             | Package of 6 Hole Saw Spacers                                                                                    | 31.40      |
| DMA-67-NL                         | Arbor Only for Use with Boring Bar DMBB-67-SS-NL (includes DMPD-NL pilot drill and DMHSS spacer)                 | 236.15     |
| <b>SHELL CUTTERS</b>              |                                                                                                                  |            |
| DMSC-5-PVC-NL                     | 1-1/8" Shell Cutter for 1-1/4" Corp Stop (fits boring bar DMBB-67-SS-NL)                                         | 477.99     |
| DMSC-6-DI-NL                      | 1-3/8" Shell Cutter for Ductile Iron Pipe, 1-1/2" Corp Stop (fits boring bar DMBB-67-SS-NL) Includes Pilot Drill | 456.78     |
| DMSC-6-PVC-NL                     | 1-3/8" Shell Cutter for PVC Pipe, 1-1/2" Corp Stop (fits boring bar DMBB-67-SS-NL)                               | 403.79     |
| DMSC-7-DI-NL                      | 1-7/8" Shell Cutter for Ductile Iron Pipe, 2" Corp Stop (fits boring bar DMBB-67-SS-NL) Includes Pilot Drill     | 513.25     |
| DMSC-7-PVC-NL                     | 1-7/8" Shell Cutter for PVC Pipe, 2" Corp Stop (fits boring bar DMBB-67-SS-NL)                                   | 469.17     |
| <b>BORING BAR AND PILOT DRILL</b> |                                                                                                                  |            |
| DMBB-67-SS-NL                     | Boring Bar for 1-1/4", 1-1/2" and 2" Corp Stops                                                                  | 477.54     |
| DMPD-NL                           | 1/4" Pilot Drill for Use with DMA-67-NL Arbor, DMSC-6-DI-NL or DMSC-7-DI-NL                                      | 20.94      |
| <b>ADAPTER GASKETS</b>            |                                                                                                                  |            |
| GT-119                            | Inside Gasket for DMA6-3-Q-NL Adapter                                                                            | 2.17       |
| GT-126                            | Inside Gasket for DMA4-6-Q-NL Adapter                                                                            | 3.19       |
| GT-127                            | Inside Gasket for DMA4-7-Q-NL Adapter                                                                            | 3.62       |
| GT-128                            | Inside Gasket for DMA6-4-Q-NL Adapter                                                                            | 3.52       |
| GT-132                            | Inside Gasket for DMA2-7-NL and DMA1-78-NL Adapters                                                              | 4.98       |
| GT-143                            | Inside Gasket for DMA2-6-NL and DMA1-67-NL Adapters                                                              | 6.35       |
| GT-142                            | Inside Gasket for DMA1-6-NL Adapter                                                                              | 6.35       |
| GT-144                            | Inside Gasket for DMA1-7-NL Adapter                                                                              | 6.35       |

**Note:** 1-7/8" hole saws require a DMA-67-NL arbor. 1-1/8", 1-3/8" and 1-7/8" shell cutters attach to the DMBB-67-SS-NL boring bar.

\* To be used only with DMBB-67-SS-NL boring bar, DMD-5-DI-NL drill and DMSC-5-PVC-NL shell cutter.

**Example of an Optional DMA-67-NL Arbor - (for hole saws only)**

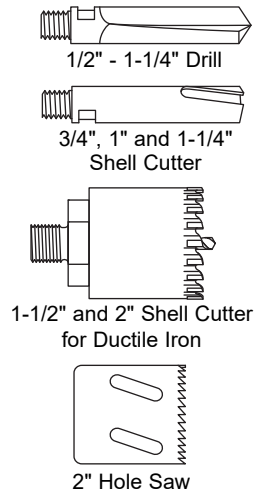


## DRILLING MACHINE OPTION SELECTION CHARTS

Select **ONE** item from **EACH** of the three charts below to determine which cutting tool, adapter and boring bar is needed for a particular drilling requirement.

### CUTTING TOOLS

To select a cutting tool, choose the proper column for type of water main, then select nominal hole size. The proper cutting tool catalog number is in the far left column.



| CATALOG NUMBER | DESCRIPTION  | ACTUAL CUTTER DIAMETER | TYPE OF WATER MAIN (NOMINAL HOLE SIZE) |        |                 |
|----------------|--------------|------------------------|----------------------------------------|--------|-----------------|
|                |              |                        | PVC                                    | IRON   | ASBESTOS CEMENT |
| DMD-1-NL       | Drill        | 7/16"                  |                                        | 1/2"   | 1/2"            |
| DMD-2-NL       | Drill        | 9/16"                  |                                        | 5/8"   | 5/8"            |
| DMD-3-NL       | Drill        | 11/16"                 |                                        | 3/4"   | 3/4"            |
| DMD-4A-NL      | Drill        | 7/8"                   |                                        | 1"     | 1"              |
| DMD-5-DI-NL    | Drill        | 1-1/8"                 |                                        | 1-1/4" | 1-1/4"          |
| DMSC-1-NL      | Shell Cutter | 7/16"                  | 1/2"                                   |        |                 |
| DMSC-3-NL      | Shell Cutter | 11/16"                 | 3/4"                                   |        |                 |
| DMSC-4A-NL     | Shell Cutter | 7/8"                   | 1"                                     |        |                 |
| DMSC-5-PVC-NL  | Shell Cutter | 1-1/8"                 | 1-1/4"                                 |        | 1-1/4"          |
| DMSC-6-DI-NL   | Shell Cutter | 1-3/8"                 |                                        | 1-1/2" |                 |
| DMSC-6-PVC-NL  | Shell Cutter | 1-3/8"                 | 1-1/2"                                 |        | 1-1/2"          |
| DMSC-7-DI-NL   | Shell Cutter | 1-7/8"                 |                                        | 2"     |                 |
| DMSC-7-PVC-NL  | Shell Cutter | 1-7/8"                 | 2"                                     |        | 2"              |
| DMHS-7-NL      | Hole Saw     | 1-7/8"                 | 2"                                     | 2"     | 2"              |

**A**  
**B**

### ADAPTERS

To select an adapter, choose the proper column for corporation body outlet thread type (see section A to determine a corporation body outlet thread type and size). The catalog number for the proper adapter is in the far left column.

| CATALOG NUMBER    | CORPORATION BODY OUTLET THREAD TYPE AND SIZE |                                  |                           |                                         | INSIDE GASKET OR O-RING |
|-------------------|----------------------------------------------|----------------------------------|---------------------------|-----------------------------------------|-------------------------|
|                   | FLARE COPPER THREAD                          | MALE IRON PIPE THREADS           | SPECIAL QUICKJOINT THREAD | FEMALE IRON PIPE THREADS                |                         |
| DMA2-1-NL         | 1/2"                                         |                                  |                           |                                         | GT-106                  |
| DMA2-2-NL         | 5/8"                                         |                                  |                           |                                         | GT-107                  |
| **DMA2-3-NL       | 3/4"                                         |                                  |                           |                                         | GT-118                  |
| **DMA2-4-NL       | 1"                                           |                                  |                           |                                         | GT-119                  |
| †DMA2-5-NL        | 1-1/4"                                       |                                  |                           |                                         | GT-147                  |
| DMA2-6-NL         | 1-1/2"                                       |                                  |                           |                                         | GT-143                  |
| DMA2-7-NL         | 2"                                           |                                  |                           |                                         | GT-132                  |
| DMA1-3-NL         |                                              | 3/4"                             |                           |                                         | GT-114                  |
| DMA1-4-NL         |                                              | 1"                               |                           |                                         | GT-120                  |
| †DMA1-5-NL        |                                              | 1-1/4" (F/FB800-4 and F/FB900-4) |                           |                                         | GT-119                  |
| DMA1-5F-SS-NL     |                                              | 1-1/4" (F/FB400-4 and F/FB500-4) |                           |                                         | ORING-650220-EP         |
| DMA1-6-NL         |                                              | 1-1/2"                           |                           |                                         | GT-142                  |
| DMA1-67-NL        |                                              | 2" (FB800-6/FB900-6)             |                           |                                         | GT-143                  |
| DMA1-7-NL         |                                              | 2"                               |                           |                                         | GT-144                  |
| DMA1-78-NL        |                                              | 2-1/2" (FB800-7/FB900-7)         |                           |                                         | GT-132                  |
| DMA2-5F-SS-NL     | 1-1/4"                                       |                                  |                           |                                         | GT-147                  |
| DMA2-6F-NL        | 1-1/2"                                       |                                  |                           |                                         | GT-143                  |
| †DMA4-5-Q-NL      |                                              |                                  | 1-1/4" CTS                |                                         | GT-128                  |
| DMA4-5F-Q-SS-NL   |                                              |                                  | 1-1/4" CTS                |                                         | GT-138                  |
| DMA4-6-Q-NL       |                                              |                                  | 1-1/2" CTS                |                                         | GT-126                  |
| DMA4-7-Q-NL       |                                              |                                  | 2" CTS                    |                                         | ORING-GT-127            |
| DMA4-7-Q-MR-SS-NL |                                              |                                  | 2" CTS                    |                                         | GT-127                  |
| DMA6-3-Q-NL       |                                              |                                  | 3/4" PEP                  |                                         | GT-119                  |
| DMA6-4-Q-NL       |                                              |                                  | 1" PEP                    |                                         | GT-128                  |
| DMA8-6-SS-NL      |                                              |                                  |                           | 1-1/2" (1-1/2" FB1600/FB1700 Ballcorps) | ORING-650223-BN         |
| DMA8-7-SS-NL      |                                              |                                  |                           | 2" (2" FB1600/FB1700 Ballcorps)         | ORING-650227-BN         |

### BORING BARS

Select the boring bar that corresponds to the cutting tool(s) that meet your drilling requirements. The catalog number for the proper boring bar is in the far left column.



| Catalog Number   | Corresponding Cutting Tools                                                          |
|------------------|--------------------------------------------------------------------------------------|
| DMBB-1-NL        | DMD-1-NL, DMSC-1-NL                                                                  |
| DMBB-2-NL        | DMD-2-NL                                                                             |
| ▲▲ DMBB-3-SS-NL  | DMD-3-NL, DMSC-3-NL                                                                  |
| ▲▲ DMBB-4A-SS-NL | DMD-4A-NL, DMSC-4A-NL                                                                |
| DMBB-67-SS-NL    | DMSC-6-DI-NL, DMSC-6-PVC-NL, DMSC-7-DI-NL, DMSC-7-PVC-NL, DMD-5-DI-NL, DMSC-5-PVC-NL |
| DMBB-67-SS-NL    | DMHS-7-NL                                                                            |
| * DMA-67-NL      | DMHS-7-NL                                                                            |

#### NOTES:

- \* DMA-67-NL (drilling machine arbor) is required only for 2" hole saw, DMHS-7-NL.
- \*\* This item is included in the complete drilling machine kit, catalog number DMK-1-12A-NL.
- ▲ This item is included in the drilling machine only, catalog number DMO-1-9A-NL.
- † For use with 7/8" (1" nominal) drill or shell cutter.

# DRILLING MACHINE ADAPTERS

**Table of Recommended Drill Sizes**  
(for installation of corporation stops in service clamps or saddles with a drilling machine)

| CORPORATION STOP SIZE                                   | 1/2"  | 5/8"  | 5/8" x 3/4" | 3/4"   | 3/4" x 1" | 1"     | 1-1/4"  | 1-1/2"  | 2"     |
|---------------------------------------------------------|-------|-------|-------------|--------|-----------|--------|---------|---------|--------|
| Maximum Drill Size for Stop with AWWA Thread Inlet      | 7/16" | 9/16" | 9/16"       | 11/16" | 11/16"    | 15/16" | 1-3/16" | 1-7/16" | 1-7/8" |
| Maximum Drill Size for Stop with Iron Pipe Thread Inlet | 7/16" | -     | -           | 11/16" | 11/16"    | 7/8"   | 1-3/16" | 1-7/16" | 1-7/8" |

## Recommended Drilling Machine Adapters

| SIZE            | FORD CORPORATION NUMBER          | OUTLET THREADS    | MUELLER   |           | ROMAC       | RIDGID  | REED   | FORD      |              |
|-----------------|----------------------------------|-------------------|-----------|-----------|-------------|---------|--------|-----------|--------------|
|                 |                                  |                   | E-4 & E-5 | D-4 & D-5 | TAPMATE TOO | MLT3401 | DM1100 | MODEL 77  | SIMTAP       |
| 1/2"            | F1000                            | 1/2" Fl. Copper   | 63796     | -         | -           | -       | -      | DMA2-1-NL | -            |
| 5/8" x 3/4"     | F1000                            | 3/4" Fl. Copper   | 52019     | 37902     | 351-05-506  | 92097   | 08423  | DMA2-3-NL | SIMDMA2-3-NL |
| 3/4"            | F (or FB) 1000, 1100             |                   |           |           |             |         |        |           |              |
| 3/4"            | F (or FB) 1001, 1101, 1002, 1102 | 1" Fl. Copper     | 36750     | 37903     | 351-05-508  | 92102   | 08424  | DMA2-4-NL | SIMDMA2-4-NL |
| 3/4" x 1"       | F (or FB) 1000, 1100             |                   |           |           |             |         |        |           |              |
| 1"              | F (or FB) 1000, 1100             |                   |           |           |             |         |        |           |              |
| 3/4" x 1"       | F1001, 1101, 1002, 1102          | 1-1/4" Fl. Copper | 45385     | 37904     | 351-05-510  | 92107   | -      | DMA2-5-NL | SIMDMA2-5-NL |
| 1"              | F (or FB) 1001, 1101, 1002, 1102 |                   |           |           |             |         |        |           |              |
| 1" x 1-1/4"     | F (or FB) 1000, 1100             |                   |           |           |             |         |        |           |              |
| 1-1/4"          | FB1000, 1100                     | 1-1/2" Fl. Copper | 501947    | 37905     | 351-05-512  | 92112   | 08425  | DMA2-6-NL | SIMDMA2-6-NL |
| 1-1/4" x 1-1/2" | FB1000, 1100                     |                   |           |           |             |         |        |           |              |
| 1-1/2"          | FB1000, 1100, 1002, 1102         | 2" Fl. Copper     | 508201    | 37906     | 351-05-516  | 92117   | 08426  | DMA2-7-NL | **See Note   |
| 1-1/2" x 2"     | FB1001, 1101                     |                   |           |           |             |         |        |           |              |
| 2"              | FB1000, 1100                     |                   |           |           |             |         |        |           |              |
|                 | FB1001, 1101, 1002, 1102         |                   |           |           |             |         |        |           |              |

### SPECIAL ADAPTERS

|        |                              |                |        |        |            |       |       |                  |                |
|--------|------------------------------|----------------|--------|--------|------------|-------|-------|------------------|----------------|
| 3/4"   | F (or FB) 1001-3-Q, 1101-3-Q | Special Thread | 508919 | 508917 | -          | -     | 08423 | DMA6-3-Q-NL      | SIMDMA6-3-Q-NL |
| 1"     | F (or FB) 1001-4-Q, 1101-4-Q |                | 508920 | 508918 | -          | -     | 08424 | DMA6-4-Q-NL      | SIMDMA6-4-Q-NL |
| 1-1/4" | FB1000-5-Q, 1100-5-Q         |                | -      | -      | -          | -     | -     | *DMA4-5F-Q-SS-NL | SIMDMA4-5-Q-NL |
| 1-1/2" | FB1000-6-Q, 1100-6-Q         |                | 501949 | 507644 | 351-05-712 | 92157 | 08431 | DMA4-6-Q-NL      | SIMDMA4-6-Q-NL |
| 2"     | FB1000-7-Q, 1100-7-Q         |                | 508199 | 507645 | 351-05-716 | 92162 | 08432 | DMA4-7-Q-NL      | SIMDMA4-7-Q-NL |

\* Requires DMBB-67-SS-NL boring bar.

\*\* Use the SIMTAP™ drilling machine body without an adapter.

## Recommended Tapping Machine Adapters

| SIZE            | FORD CORPORATION NUMBER          | OUTLET THREADS    | MUELLER       |        |           | REED  | RIDGID  |
|-----------------|----------------------------------|-------------------|---------------|--------|-----------|-------|---------|
|                 |                                  |                   | B-100 & B-101 | B      | A-2 & A-3 | TM100 | MLT3401 |
| 5/8" x 3/4"     | F1000                            | 3/4" Fl. Copper   | 680600        | 680600 | 680600    | 98423 | 92182   |
| 3/4"            | F (or FB) 1000, 1100             |                   |               |        |           |       |         |
| 3/4"            | F (or FB) 1001, 1101, 1002, 1102 | 1" Fl. Copper     | 680601        | 680601 | 680601    | 98424 | 92187   |
| 3/4" x 1"       | F (or FB) 1000, 1100             |                   |               |        |           |       |         |
| 1"              | F (or FB) 1000, 1100             |                   |               |        |           |       |         |
| 3/4" x 1"       | F1001, 1101, 1002, 1102          | 1-1/4" Fl. Copper | 680602        | -      | 680602    | -     | -       |
| 1"              | F (or FB) 1001, 1101, 1002, 1102 |                   |               |        |           |       |         |
| 1" x 1-1/4"     | F (or FB) 1000, 1100             |                   |               |        |           |       |         |
| 1-1/4"          | FB1000, 1100                     | 1-1/2" Fl. Copper | -             | -      | 88640     | -     | -       |
| 1-1/4" x 1-1/2" | FB1000, 1100                     |                   |               |        |           |       |         |
| 1-1/2"          | FB1000, 1100, 1002, 1102         | 2" Fl. Copper     | -             | -      | 88641     | -     | -       |
| 1-1/2" x 2"     | FB1001, 1101                     |                   |               |        |           |       |         |
| 2"              | FB1000, 1100                     |                   |               |        |           |       |         |
|                 | FB1001, 1101, 1002, 1102         |                   |               |        |           |       |         |

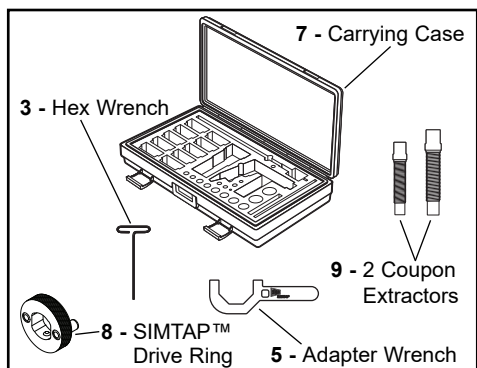
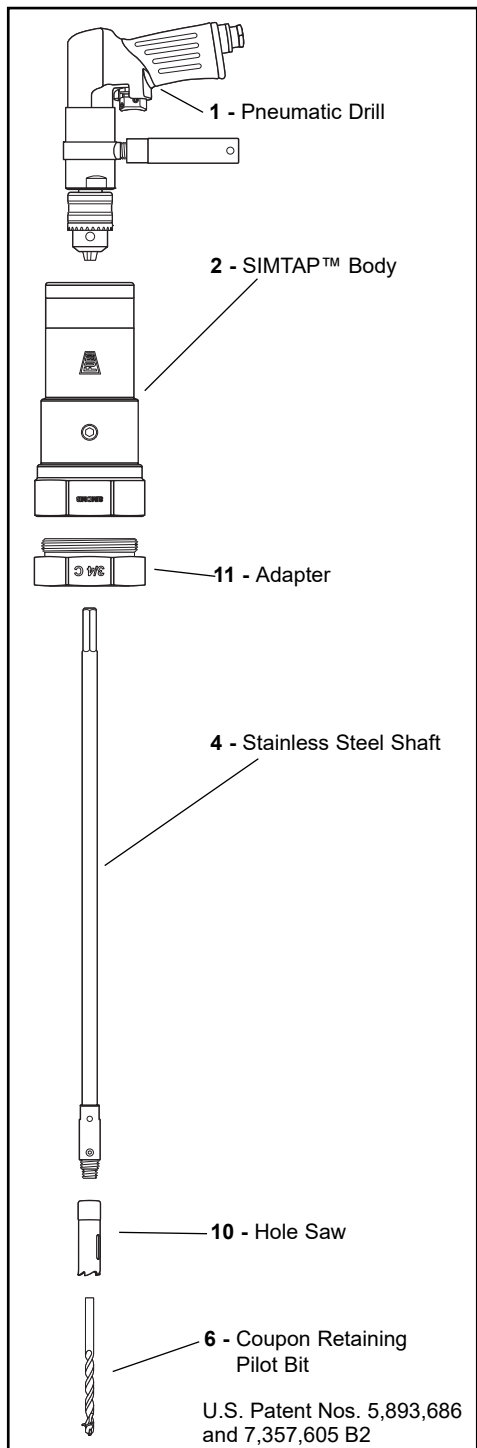
### SPECIAL ADAPTERS

|        |                              |                |        |   |        |       |   |
|--------|------------------------------|----------------|--------|---|--------|-------|---|
| 3/4"   | F (or FB) 1001-3-Q, 1101-3-Q | Special Thread | 680688 | - | -      | 98423 | - |
| 1"     | F (or FB) 1001-4-Q, 1101-4-Q |                | 680689 | - | 680689 | 98424 | - |
| 1-1/2" | FB1000-6-Q, 1100-6-Q         |                | -      | - | 680421 | -     | - |
| 2"     | FB1000-7-Q, 1100-7-Q         |                | -      | - | 680422 | -     | - |

**WARNING:** Some tapping machine adapters furnished by the tapping machine manufacturers are not threaded all the way to the bottom of the adapter. This can cause problems when installing Ford Pack Joint and Grip Joint Style Corporation Stops. If your adapter is **NOT** threaded to the bottom, a free washer-type screw plug adapter is available from Ford.

# THE FORD SIMTAP™ DRILLING MACHINE

## SECTION AB



### SIMTAP™ KITS

| CATALOG NUMBER | DESCRIPTION                                                                                   | LIST PRICE |
|----------------|-----------------------------------------------------------------------------------------------|------------|
| SIMDMK-NL      | Complete SIMTAP™ Drilling Machine Kit with Pneumatic Drill (includes items 1-11) (29.18 lbs.) | \$ 3779.22 |
| SIMDMK-LD-NL   | The SIMTAP™ Drilling Machine Kit less Pneumatic Drill (includes items 2-11) (25.58 lbs.)      | 3509.60    |
| SIMDMK-B-NL    | The SIMTAP™ Drilling Machine Base Kit (includes items 2-8) (12.90 lbs.)                       | 1284.77    |

### COMPONENT PARTS

| REF. No. | CATALOG NUMBER  | DESCRIPTION                                                                                             | LIST PRICE |
|----------|-----------------|---------------------------------------------------------------------------------------------------------|------------|
| 1        | SIMAD           | Pneumatic Drill                                                                                         | \$ 295.32  |
| 2        | SIMDMB-NL       | SIMTAP™ Drilling Machine Body with Bleed-Off Port (combination body and 2" flare copper thread adapter) | 909.49     |
| 3        | SIMHW           | Pilot Drill Hex Wrench                                                                                  | 16.05      |
| 4        | SIMDMBB-SS-NL   | Stainless Steel Shaft with Dual Arbor                                                                   | 295.32     |
| 5        | SIMDMAW         | Adapter Wrench                                                                                          | 166.66     |
| 6        | SIMDMPD-NL      | 1/4" Coupon Retaining Pilot Bit                                                                         | 70.41      |
| 7        | SIMDMTB         | SIMTAP™ Drilling Machine Carrying Case                                                                  | 380.10     |
| 8        | *SIMDRIVE-SS-NL | SIMTAP™ Drive Ring for use with 1-1/2" and 2" Hole Saws                                                 | 95.51      |
| 9        | SIMCE1-SS-NL    | 1/2" Coupon Extractor                                                                                   | 56.75      |
|          | SIMCE2-SS-NL    | 5/8" Coupon Extractor                                                                                   | 59.12      |
| 10       | SIMDMHS-3-NL    | 11/16" Hole Saw                                                                                         | 49.90      |
|          | SIMDMHS-4-NL    | 7/8" Hole Saw                                                                                           | 50.35      |
|          | SIMDMHS-6-NL    | 1-3/8" Hole Saw                                                                                         | 58.03      |
|          | SIMDMHS-7-NL    | 1-7/8" Hole Saw                                                                                         | 66.64      |
| 11       | SIMDMA1-3-NL    | 3/4" Iron Pipe Thread Adapter (Red)                                                                     | 311.80     |
|          | SIMDMA2-3-NL    | 3/4" Flare Copper Thread Adapter (Purple)                                                               | 311.80     |
|          | SIMDMA1-4-NL    | 1" Iron Pipe Thread Adapter (Turquoise)                                                                 | 311.80     |
|          | SIMDMA2-4-NL    | 1" Flare Copper Thread Adapter (Grey)                                                                   | 311.80     |
|          | SIMDMA6-4-Q-NL  | 1" PEP Quick Joint Thread Adapter (Blue)                                                                | 311.80     |
|          | SIMDMA1-6-NL    | 1-1/2" Iron Pipe Thread Adapter (Brown)                                                                 | 311.80     |
|          | SIMDMA2-6-NL    | 1-1/2" Flare Copper Thread Adapter (Orange)                                                             | 311.80     |
|          | SIMDMA4-6-Q-NL  | 1-1/2" CTS Quick Joint Thread Adapter (Green)                                                           | 311.80     |
|          | SIMDMA1-7-NL    | 2" Iron Pipe Thread Adapter (Gold)                                                                      | 311.80     |
|          | SIMDMA4-7-Q-NL  | 2" CTS Quick Joint Thread Adapter (Yellow)                                                              | 311.80     |

\* Requires newer model boring bar with flats and dimple / detent.

### Optional Items

| CATALOG NUMBER          | DESCRIPTION                                            | LIST PRICE |
|-------------------------|--------------------------------------------------------|------------|
| SIMDMA6-3-Q-NL          | 3/4" PEP Quick Joint Thread Adapter (Aqua)             | \$ 311.80  |
| SIMDMA1-5-NL            | 1-1/4" Iron Pipe Thread Adapter (Black)                | 311.80     |
| SIMDMA2-5-NL            | 1-1/4" Flare Copper Thread Adapter (Pink)              | 311.80     |
| SIMDMA4-5-Q-NL          | 1-1/4" CTS Quick Joint Thread Adapter (Silver)         | 311.80     |
| SIMDMA1-8-NL            | 2-1/2" Iron Pipe Thread Adapter (Silver)               | 311.80     |
| SIMDMHS-5-NL            | 1-1/8" Hole Saw                                        | 55.43      |
| SIMDMSC-3-PVC-NL        | 11/16" Shell Cutter for PVC                            | 217.81     |
| SIMDMSC-4-PVC-NL        | 7/8" Shell Cutter for PVC                              | 239.68     |
| SIMDMSC-5-PVC-NL        | 1-1/8" Shell Cutter for PVC                            | 273.92     |
| SIMDMSC-6-PVC-NL        | 1-3/8" Shell Cutter for PVC                            | 303.06     |
| SIMDMSC-7-PVC-NL        | 1-7/8" Shell Cutter for PVC                            | 348.82     |
| **SIMDMSC-6-PVC-HDPE-NL | 1-3/8" Shell Cutter for PVC or HDPE                    | 348.51     |
| **SIMDMSC-7-PVC-HDPE-NL | 1-7/8" Shell Cutter for PVC or HDPE                    | 411.61     |
| SIMDMBB-285-SS-NL       | Stainless Steel Shaft with Dual Arbor - 28-1/2" Long   | 461.75     |
| SIMDMPD-5-5-NL          | 1/4" Coupon Retaining Pilot Bit (5-1/2" long for HDPE) | 83.07      |

\*\* Requires 5-1/2" long Pilot Bit (SIMDMPD-5-5-NL)

AB

# THE FORD SIMTAP™ OPTION SELECTION CHARTS

## CUTTING TOOLS

To select a cutting tool, choose the proper column for the type of water main, and select the nominal hole size. The proper cutting tool catalog number is in the far left column.

| CATALOG NUMBER           | DESCRIPTION                         | CORP STOP SIZE | TYPE OF WATER MAIN (NOMINAL HOLE SIZE) |        |                 |        |
|--------------------------|-------------------------------------|----------------|----------------------------------------|--------|-----------------|--------|
|                          |                                     |                | PVC                                    | IRON   | ASBESTOS CEMENT | HDPE   |
| SIMDMHS-3-NL             | 11/16" Hole Saw                     | 3/4"           | -                                      | 3/4"   | 3/4"            | -      |
| SIMDMHS-4-NL             | 7/8" Hole Saw                       | 1"             | -                                      | 1"     | 1"              | -      |
| SIMDMHS-5-NL             | 1-1/8" Hole Saw                     | 1-1/4"         | -                                      | 1-1/4" | 1-1/4"          | -      |
| SIMDMHS-6-NL             | 1-3/8" Hole Saw                     | 1-1/2"         | -                                      | 1-1/2" | 1-1/2"          | -      |
| SIMDMHS-7-NL             | 1-7/8" Hole Saw                     | 2"             | -                                      | 2"     | 2"              | -      |
| SIMDMSC-3-PVC-NL         | 11/16" Shell Cutter for PVC         | 3/4"           | 3/4"                                   | -      | 3/4"            | -      |
| SIMDMSC-4-PVC-NL         | 7/8" Shell Cutter for PVC           | 1"             | 1"                                     | -      | 1"              | -      |
| SIMDMSC-5-PVC-NL         | 1-1/8" Shell Cutter for PVC         | 1-1/4"         | 1-1/4"                                 | -      | 1-1/4"          | -      |
| SIMDMSC-6-PVC-NL         | 1-3/8" Shell Cutter for PVC         | 1-1/2"         | 1-1/2"                                 | -      | 1-1/2"          | -      |
| SIMDMSC-7-PVC-NL         | 1-7/8" Shell Cutter for PVC         | 2"             | 2"                                     | -      | 2"              | -      |
| ** SIMDMSC-6-PVC-HDPE-NL | 1-3/8" Shell Cutter for PVC or HDPE | 1-1/2"         | 1-1/2"                                 | -      | -               | 1-1/2" |
| ** SIMDMSC-7-PVC-HDPE-NL | 1-7/8" Shell Cutter for PVC or HDPE | 2"             | 2"                                     | -      | -               | 2"     |

\*\* Requires 5-1/2" long Pilot Bit (SIMDMPD-5-5-NL)

## ADAPTER COLOR CODE

To select an adapter, choose the proper column for the corporation body outlet thread type. The catalog number for the proper adapter is in the far left column.

| CATALOG NUMBER  | DESCRIPTION                           | COLOR     | WT. LBS. |
|-----------------|---------------------------------------|-----------|----------|
| SIMDMA1-3-NL    | 3/4" Iron Pipe Thread Adapter         | Red       | 1.4      |
| SIMDMA1-4-NL    | 1" Iron Pipe Thread Adapter           | Turquoise | 1.4      |
| SIMDMA1-5-NL    | 1-1/4" Iron Pipe Thread Adapter       | Black     | 1.3      |
| SIMDMA1-6-NL    | 1-1/2" Iron Pipe Thread Adapter       | Brown     | 1.2      |
| SIMDMA1-7-NL    | 2" Iron Pipe Thread Adapter           | Gold      | 0.9      |
| SIMDMA1-8-NL    | 2-1/2" Iron Pipe Thread Adapter       | Silver    | 0.8      |
| SIMDMA2-3-NL    | 3/4" Flare Copper Thread Adapter      | Purple    | 1.4      |
| SIMDMA2-4-NL    | 1" Flare Copper Thread Adapter        | Grey      | 1.3      |
| SIMDMA2-5-NL    | 1-1/4" Flare Copper Thread Adapter    | Pink      | 1.2      |
| SIMDMA2-6-NL    | 1-1/2" Flare Copper Thread Adapter    | Orange    | 1.0      |
| * Use SIMDMB-NL | 2" Flare Copper Thread Adapter        | -         | -        |
| SIMDMA6-3-Q-NL  | 3/4" PEP Quick Joint Thread Adapter   | Aqua      | 0.9      |
| SIMDMA6-4-Q-NL  | 1" PEP Quick Joint Thread Adapter     | Blue      | 1.2      |
| SIMDMA4-5-Q-NL  | 1-1/4" CTS Quick Joint Thread Adapter | Silver    | 1.3      |
| SIMDMA4-6-Q-NL  | 1-1/2" CTS Quick Joint Thread Adapter | Green     | 1.1      |
| SIMDMA4-7-Q-NL  | 2" CTS Quick Joint Thread Adapter     | Yellow    | 0.9      |

**Note:** For recommended drilling machine adapters, see chart on page AB-4.

\* For 2" flare copper, use the SIMTAP™ body without an adapter.

The SIMTAP™ is compatible with all corporation stops™ complying with the AWWA C800 Standard. The SIMTAP™ also works on ball corporation stops and most other valve types. Consult with factory for non-standard valve applications and adapter availability.