

**BELL SYSTEM PRACTICES**  
**Outside Plant Construction**  
**and Maintenance**

**SECTION G97.015.1**  
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**AT&T Co Standard**

**AIR COMPRESSORS**  
**COMPRESSED AIR TOOLS**

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**1. GENERAL**

1.01 This section describes various compressed air tools and associated equipment manufactured by the Chicago Pneumatic Tool Company and Independent Pneumatic Tool Company (Thor tools) for use with air compressors.

1.02 Only those tools generally used in telephone construction work are included. If required, information with respect to additional sizes and types of tools may be found in the manufacturer's catalog.

**2. SAFETY PRECAUTIONS**

2.01 Make sure that the tools, hose and couplings are in good condition and that there will be no danger of the hose becoming disconnected while under pressure.

2.02 Protect the hose so that it will not become tangled and will not be subject to damage from passing traffic.

2.03 The operator should stand in a position which will keep his feet clear of themoil points, tampers, etc., particularly when starting to break concrete, paving, or other hard surfaces.

2.04 Wear eye protection in accordance with Section entitled "Tools—Description, Use and Care of Goggles."

2.05 Place warning signs and guards as required to protect persons and property in vicinity of the work.

### 3. AIR HOSE

3.01 The 3/4-inch compressed air hose is for use in making connections between portable air compressors and the various tools. It is supplied in maximum lengths of 50 feet.

3.02 The 1/2-inch hose is for making leader connections to tampers and clay diggers and is supplied in 10-foot lengths. This lighter hose makes the tool easier to handle and reduces the strain on the nipple connection at the tool.

### 4. AIR HOSE COUPLINGS

4.01 Three types are available, one with hose end, one with male pipe threads for screwing into the air outlet on air compressors and one with female pipe threads for screwing onto the male coupling of the paving breaker and rock drill connections. A clamp is used to fasten the hose end couplings to the hose. The clamp is not supplied with the coupling but must be ordered separately. A gasket is furnished with each coupling.

4.02 The 1/2-inch hose nipple with 3/8-inch male pipe thread is for renewing 1/2-inch leader hose connections on tampers and clay diggers.



COMPRESSED AIR  
HOSE COUPLING



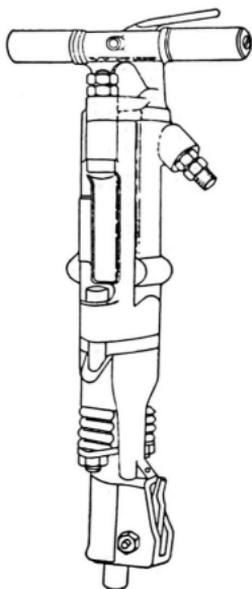
COMPRESSED AIR  
FEMALE HOSE COUPLING



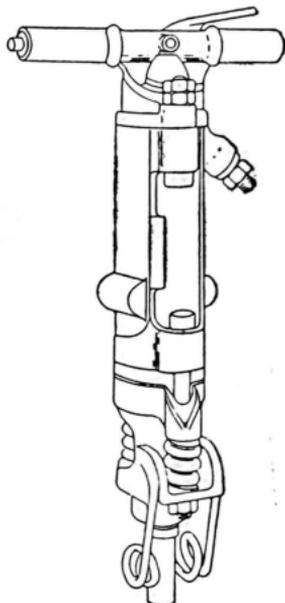
COMPRESSED AIR  
MALE THREAD COUPLING

## 5. PAVING BREAKERS

5.01 Compressed air paving breakers are for use primarily to cut and break asphalt and concrete paving. The CP-116 and the Thor No. 20 are for general use. They strike lighter and more rapid blows than the CP-117 and Thor No. 25 and are more satisfactory for the work usually encountered. The harder striking, slower operating CP-117 and Thor No. 25 tools are intended for use where very strong, thick concrete is encountered.



**COMPRESSED AIR  
PAVING BREAKER  
(WITH LATCH TYPE RETAINER)**



**COMPRESSED AIR  
PAVING BREAKER  
(WITH SPRING RETAINER)**

5.02 Moil points are available for use with the paving breakers for opening concrete pavement and general demolition work. Asphalt chisels are available for cutting asphalt pavement. These tools fit both makes and types of paving breakers.

The weights of the paving breakers are as follows:

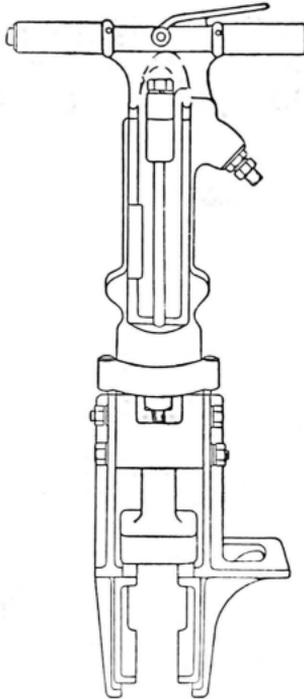
CP-116 Paving Breaker	75 lbs.
CP-117 Paving Breaker	75 lbs.
Thor No. 20 Paving Breaker	82 lbs.
Thor No. 25 Paving Breaker	83 lbs.

## 6. SHEETING DRIVERS

6.01 Compressed air sheeting drivers are for use in driving wood sheeting to retain the banks of excavations. They are fundamentally paving breakers with a sheeting driver attachment in place, to eliminate the need for making a conversion in the field.

Weights:

CP-116 Sheeting Driver	105 lbs.
Thor No. 20 Sheeting Driver	106 lbs.



COMPRESSED AIR  
SHEETING DRIVER

## 7. ROCK DRILLS

7.01 Compressed air rock drills are for use in drilling rock in connection with excavating work. Hollow center drill steels are used with these tools so that compressed air can be utilized for cleaning the hole as the rock is drilled. A compressed air operated mechanism rotates the drill steel while drilling.

7.02 The drill steels are of the detachable bit type and fit both makes of tools. A drill steel consists of a rod and a detachable bit which is screwed onto the rod. The rods and bits are ordered separately.

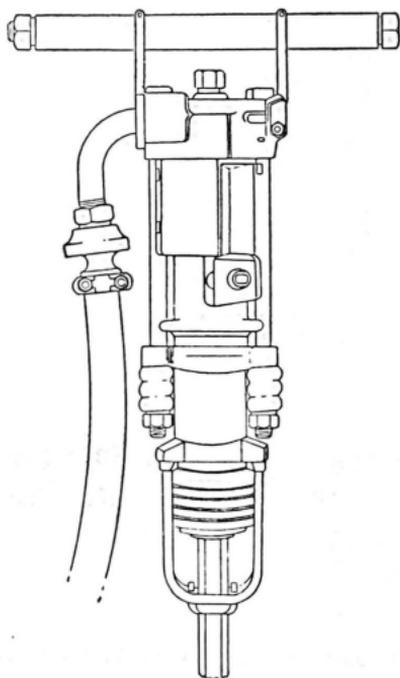
7.03 The drill steel rods are available in various lengths in multiples of two feet starting with a two-foot length.

7.04 The drill bits are available in different gauge diameters starting with 1-3/8 inches and increasing in 1/8-inch increments up to 1-3/4 inches. Any one of these different sizes of drill bits can be used with any length drill rod.

The weights of the compressed air rock drills are as follows:

Weights:

CP-10 Rock Drill	55 lbs.
Thor No. 70 Rock Drill	56 lbs.



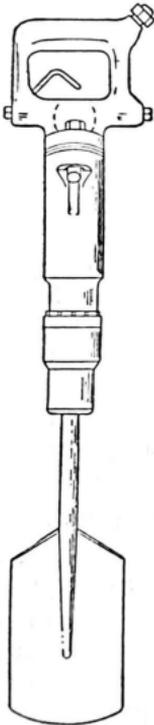
COMPRESSED AIR  
ROCK DRILL

### 8. CLAY DIGGERS

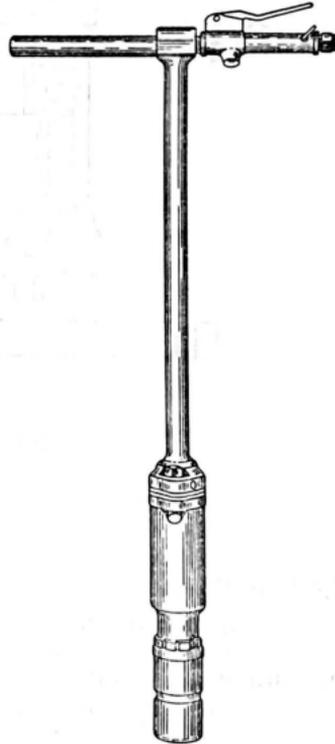
8.01 Two styles are available, one with a closed handle, and the other with a long extension T handle. The handles are interchangeable so that clay diggers can be converted from one style to the other.

The weights of the clay diggers are as follows:

<u>Weights:</u>	<u>With Closed Handle</u>	<u>With Extension Handle</u>
CP No. 3 Clay Digger	21 lbs.	27 lbs.
Thor No. 412 Clay Digger	18.75 lbs.	23.75 lbs.



COMPRESSED AIR  
CLAY DIGGER



COMPRESSED AIR  
EXTENSION HANDLE FOR CLAY DIGGER

## 9. BACKFILL TAMPERS

9.01 Compressed air backfill tampers are for use when backfilling excavations.

The weights of the tampers are as follows:

Weights:

CP Model MM Backfill Tamper	39.75 lbs.
Thor Model 6-BFT Backfill Tamper	34 lbs.



**COMPRESSED AIR  
BACKFILL TAMPER**