

THROWMASTER™ 107 | Derived Pair Transfer Test Set

APPLICATIONS:

FOR TESTING AND CUT-CLOSED TRANSFER OF DERIVED PAIRS

The Throwmaster brand Cable Test Set Model 107 is a portable, battery powered instrument used by cable splicing technicians as their primary test set. It is used to send silent tone for pair identification; to set up talk circuits; to test working and non-working pairs; to diagnose and locate cable pair defects; to rapidly perform line qualification on up to 50 pairs at a time; and to perform cut-closed cable transfers.

In a cut-closed cable transfer, the splicer can use the 107 to verify that the old pair and the new pair are half-tapped correctly; that there are no defects on the new pair; and that the subscriber is to the field of the splice location. The splicer can then bridge the pair through the test set, make the physical transfer, and verify that the circuit will work the new way - all without interrupting service. The 107, like previous Throwmaster models, can do this on any metallic circuit that can be half-tapped. But in addition, the 107 solves the problem of buzzing around cable transfers when the new pair or the old pair is derived from a pair gain system such as SLC-96 or DMS-1 Urban.

It is not possible to use conventional testing techniques on the field side of a subscriber loop system. Sending tones or shorting the pair to verify continuity does not work when the voice frequency pair is derived instead of metallic. And using ANI or ANAC to verify the telephone number only verifies the ring side of the pair.

The 107 uses a technique that verifies the transfer of the correct circuit; tests for opens, splits, reversals, and other hard troubles; and even makes a transmission test to check that the channel units in the pair gain system are performing properly. In other words, if you test a pair gain transfer with a 107 Throwmaster, you can be certain that:

1. You have the correct pair (both sides).
2. There are no defects on the new circuit.
3. The new derived circuit will provide a quality transmission path through the pair gain system.

The 107 can also be used for conventional metallic transfers, and on four-wire circuits and other special circuits that can be half-tapped. The 107 can be used to test the following types of transfers:

- Metallic to metallic.
- Metallic to pair gain.
- Pair gain to metallic.
- Pair gain to pair gain.



SPECIFICATIONS:

Size	10.5 x 11.0 x 4.5 in. (26.7 x 28 x 11.4 cm)
Unit Weight	12 lbs (5.5 kg)
Shipping Weight	14 lbs (6.4 kg)
Batteries	Five 9V Alkaline NEDA 1604
Operating Temp.	0 to 120°F (-20 to 50°C)
Tone	577 Hz Precision simplex or grounded
Test Ranges	Voltage 0 - 100 VDC Resistance 0 - 10 Megohms (analog) Length 0 - 100,000 ft
Pair Access	single pair cord (supplied) or 25 pair cords (optional)
CE	

ORDERING INFORMATION:

The Throwmaster 107 should be ordered as follows:

Throwmaster Cable Test Set, Model 107 - measures in feet.

Throwmaster Cable Test Set, Model 107M - measures in meters.

Nomenclature on all instruments is in English. All batteries and cords for single pair operation are included.