

## 1. Summary

Hickok Model 1890M In-circuit Transistor Tester, S.N. 60947-3.

Original condition is good. Chassis marked 5941 0092.

NSN 6625-00-993-3389. TEST SET, SEMICONDUCTOR DEVICE

NIIN: 00-993-3389

DESIGN CONTROL REFERENCE: 902-353 MANUFACTURERS CODE: 28569

Instruction/service manual is T.O. 33A1-3-206-1 (air force)

Similar unit built under AF contract AF 36(600)-13288. Stock number 6625-731-5716

Meter 50uA

UTC HVC-4 Variductor 0.1H -70/+200%, 30mADC

UTC TF4RX13YY

UTC DO-T11 transistor transformer 10K:2K CT

Industrial transformer corp 3250-84 10Hy 10mA 135Ω DCR

Astron ED-100uF 50V 6418

EKC RN7 resistors

Electrolytic marked 6304

Bourns trimpot

Powering: 14 pins. 5 pins not used.

BT1: Red-J (+), Purple-K (-) = 22.5V (eg. ER763 or Burgess 4156 battery). Red & purple twisted pair to 100uF 50V can to battery switch S1 (pur to wafer 6; red to wafer 1,2).

BT2: White/yell-C (+0V), White/Orange-B (-3V), Yellow/black-A (-4.5) (eg. ER 761-T or Burgess 2370). 0V yel/blk to battery switch S1 wafer 5. Wh/or to circuit impedance S5 wafer 1. Wh/yel to battery switch S1 wafer 4.

BT3: White/red-D (+0), Brown-E (-1.5V), Orange-F (-3V), Yellow-H (-4.5V) (eg. ER 761-T or Burgess 2370). Used for Collector Volts selection circuit. -4.5V yel to collector volts switch S3. -3V or to collector volts switch S3. -1.5V br to collector volts switch S3. +0 yel/rd to collector volts switch S3 and battery switch S1 wafer 4. Collector volts switch output to battery test S1 wafer 3 (operate to collector EUT terminal).

Some circuitry differences to the Hickok 890.

Defence search:

<https://www.logsa.army.mil/etms/>

<http://www.ebaman.com/index.php/remo...t-Equipment/Hickok/Hickok-890/>

Issues:

3 isolated batteries with multiple voltage taps. BT1 uses a 3k3Ω test (7mA, 150mW), and use 1x LM317L and ~26-30VDC supply. BT2 can use 2x LM317L, and ~7VDC supply. BT3 collector current supply has 100mA range, so need to use 3x LM317 regs, and ~7VDC supply.



