Theory Of Operation:
Block Diagram

CONTROL BOARD ASSY

SUB-CARRIER #2 IN → AUTOMATIC LEVEL CONTROL → 10 KHZ LOW-PASS FILTER → AUDIO MODULATION ADJUST → 7.5 MHZ SUBCARRIER OSCILLATOR → AUDIO DEVIATION ADJUST

SUB-CARRIER #1 IN → AUTOMATIC LEVEL CONTROL → 10 KHZ LOW-PASS FILTER → AUDIO MODULATION ADJUST → 7.5 MHZ SUBCARRIER OSCILLATOR → AUDIO DEVIATION ADJUST

VIDEO IN → 525 LINES PREMPHASIS → VIDEO DEVIATION ADJUST

LOOP FILTER

IDEC SWITCHES 1990.5 → MICRO PROCESSOR → PHASE LOCK LOOP CIRCUIT → DUAL MODULUS

LOCK DETECT

POWER SUPPLY

1/2 VCO

DIVIDE BY 2

VOLTAGE CONTROLLED OSCILLATOR

POWER AMPLIFIER

ISOLATOR

LOW-PASS FILTER → ANTENNA

VCO ASSY

PA ASSY

ISO LOW-PASS ASSEMBLY