

The diagram illustrates the internal circuitry of the IC3801 (SYNC DETECTOR). It features several input pins on the left: (FROM IC6001(111)) HEAD AMP SW at pin 16, (FROM IC3001(27)) VIDEO at pin 33, (FROM IC6001(36)) CUE/REV/SLOW/STILL (L) at pin 35, (FROM IC3001(53)) AUDIO at pin 3, and (FROM IC3001(48)) PB AUDIO at pin 4. The IC is powered by pins 5, 7, and 8. Internal blocks include an ENV-MASK GENERATOR, V/H SYNC SEPARATION, V- SYNC SEPARATION, V-MASK DELAY, V-MASK WIDTH CONTROL, H-MASK DELAY, H-MASK WIDTH CONTROL, CLAMP, LPF, AMP, BLACK VIDEO DETECTOR, VIDEO LATCH, COUNTER, CHROMA TRAP, BLACK AUDIO DETECTOR, and AUDIO LATCH. Test points TP3801, TP3802, and TP3803 are indicated. Outputs on the right include (TO IC6001(2)) E/V MASK (H) at pin 13, (TO IC6001(34)) VIDEO BLACK DETECT (L) at pin 25, and (TO IC6001(35)) AUDIO BLACK DETECT (L) at pin 11. The diagram also shows various passive components like capacitors and resistors, and a switch controlled by CA and MA signals.

