

Frame Timebase (FTB)

Since the Meta-Speed[□] Frame Timebase uses digital information from the Velocity DSP to determine run mode picture height, the X-Y Zoom board's (761) run size compensation must be disabled. This is accomplished by removing five chips from the X-Y Zoom board (761).

The Meta-Speed[□] Frame Timebase, or FTB, will function as a standalone replacement for the Cintel FTB (456/850/595) and will work with the old Cintel analog servo. Of course, if you are using the new Meta-Speed[□] Frame Timebase with the old Cintel analog servo, no new speeds or other new functions are available. In addition, Scan-Track will not function with the FTB software supplied with Meta-Speed[□]. When using the FTB board in External Zoom mode, it is still necessary to remove the chips mentioned above on the X-Y Zoom (761) or Kinesis zoom board, even when using the analog servo. Refer to the Frame Timebase Installation section.

Install Frame Timebase

Depending on the type of frame timebase and zoom board, use one of the following procedures:

Note: Verify the Meta-Speed[□] Frame Timebase board (23002/23012) jumper **J4** is **OFF**.

Frame Timebase (595) and (761) or Kinesis X-Y Zoom

1. Remove the existing Frame Timebase board (595) from the Tube Control rack.
2. Install the Frame Timebase ribbon cable (19009) by threading the 26-pin IDC header connector through the top of the Tube Control Rack at the Frame Timebase slot, leaving the **DE9S** connector accessible in the back of the rack for later connection. Note that this is a 10-conductor “twist 'n' flat” ribbon cable.
3. Connect the 26-pin IDC header connector end of the Frame Timebase ribbon cable (19009) to connector **P2** of the Frame Timebase HD board (23002). Make sure that pin 1 of the connector is towards the top of **P2**. This means that the 10-conductor twist 'n' flat portion is towards the bottom.
4. Install Frame Timebase HD board (23002) in the frame timebase slot of the Tube Control Rack. Be careful not to damage the ribbon cable.
5. Remove the Cintel X-Y Zoom board (761) or AAV Kinesis Zoom board.
6. For 761 Zoom board ONLY: Remove the following IC chips: **IC17, IC18, IC31, IC33** and **IC41**. Refer to Figure 9 (overleaf).
7. For Kinesis Zoom board ONLY: Remove **IC U5** (AD7845) and disconnect one of either end of resistor **R13** or capacitor **C3** on the board.
8. Replace the Cintel X-Y Zoom board (761) or AAV Kinesis zoom board back in its rack.
9. Install the DSP Bus cable (19000) from Servo Rack Connector Panel connector **P5** to the **DE9S** connector end of the Frame Timebase ribbon cable (19009), which was left hanging from the Tube Control Rack in step 2.

Frame Timebase (595) and (761) or Kinesis X-Y Zoom (cont.)

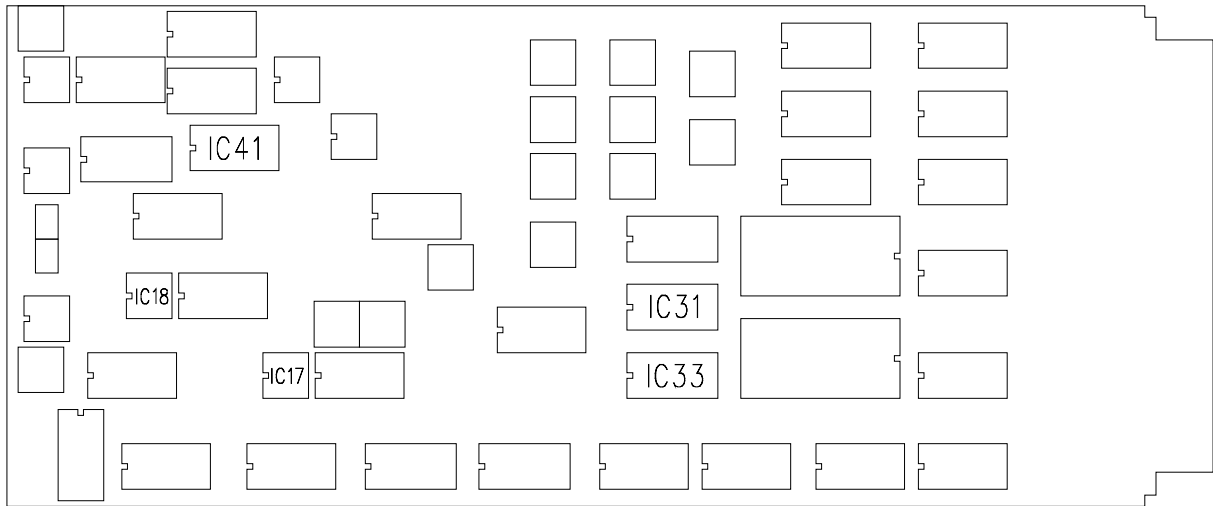


Figure 9 - Zoom Board (100761) Component Locations
Unimedia XYZ Frame Timebase/Zoom Board

1. Remove the existing Unimedia XYZ board from the Tube Control rack.
2. Install twist 'n' flat ribbon cable (19009) by threading the 26-pin IDC header connector through the top of the Tube Control Rack at the Frame Timebase slot, leaving the **DE9S** connector accessible in the back of the rack for later connection.
3. Connect the 26-pin IDC header connector end of ribbon cable (19009) to connector **P2** of the Frame Timebase LD board (23012). Make sure that pin 1 of the connector is towards the top of **P2**. This means that the 10-conductor twist 'n' flat portion is towards the bottom.
4. For standard Unimedia XYZ compatibility, check that the switch and jumper setting of the Frame Timebase match Table 25 (next page).
5. Install Frame Timebase LD board (23012) in the frame timebase slot of the Tube Control Rack. Be careful not to damage the ribbon cable.
6. Install the DSP Bus cable (19002) from Servo Rack Connector Panel connector **P5** to the **DE9S** connector end of the Frame Timebase ribbon cable (19009), which was left hanging from the Tube Control Rack in step 2.

SW1 BIT 8	On	Internal Zoom
J2	2-3	Internal Zoom
J6	In	Remote1 Zoom on PL1-14
J7	In	Remote1 Y Position on PL1-12
J8	Out	No control of Line Timebase X Position
J9	Out	No control of Line Timebase X Position
J10	In	X Size to Line Timebase on PL1-20

Table 25 - FTB LD Settings for Unimedia Compatibility

Digital Deflection System (DDS)

Turbo 2 and telecines with DAV Digital Deflection System:

The Digital Deflection System is supported by Meta-Speed[□] on RS-422 Port 4. Connect DDS RS-422 cable (19017) from the Meta-Speed[□] SRCP2 connector **P4** to the Digital Deflection System Scan Chassis connector **FSK5**. Enable the DDS by selecting the appropriate setting for Port 4 in the Meta-speed[□] Setup Menu.

See DAV documentation for details on installing and aligning the Digital Deflection System in conjunction with Meta-Speed[□].

Next Step – Proceed to “Getting Started” Page 53.

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