

TARGET SEM PROXIMITY FOIL READ BACK

NOTES (REFER TO TIMING DIAGRAM)

- 1) This signal is produced inside the scanner. The first pulse can be ignored. The second pulse corresponds to the beam pulse arrival
- 2) IC U6 is a negative edge triggered FF. It is used to produce 1 pulse instead of 2.
- 3) IC U7 is used to produce a reset pulse. It is connected to U6 pin 2 (CLR) and forces the JK FF to the correct state.
- 4) IC U8 is a negative edge triggered FF that is used to produce a 1us pulse and trigger the multivibrator.
- 5) IC U4 is setup to produce a delay of 1.5ms and a output pulse width of 200us. The 200us pulse corresponds to sample time of U3 (S&H IC).

TARGET SEM SCANNER NOTES

- 1) The Upstream and Downstream Proximity foils are read back by the TSEM scanner and the Proximity Foil Readback Box.
- 2) Inside the scanner 2 wires are connected to U54 pin 2 and 4 of connector J2. Pin 2 is connected to Cap 46. Pin 6 is connected to Cap 42.
- 3) Pin 23 of connector J2 is the Downstream limit foil (Pin 2 of U54, Cap 46).
- 4) Pin 24 of connector J2 is the Upstream limit foil (Pin 4 of U54, Cap 42).

TSEM Universal Module

Limit Switch Settings

** Looking at the SEM from the upstream side **

1. X(Horizontal) UP Limit (To the right) = .276
 DN Limit (To the left) =
2. Y(Vertical) UP Limit (Physically UP) = .280
 DN Limit (Physically DN) = -.282
3. Yaw(Rotation) 0°=178.8693 UP Limit +5° (CW) =183.7629
 DN Limit -5° (CCW)= 173.9245

Notes : Matt A. Has the exact values recorded in Target Station Data Book. Noticed when traveling the X axis to the UP Limit, the SEM did not seem to move beyond .278 .