

# LMH1983 TOF Alignment

TOF1 Control

TOF1 Loss of Align Detect Threshold:  $2^2 = 4$

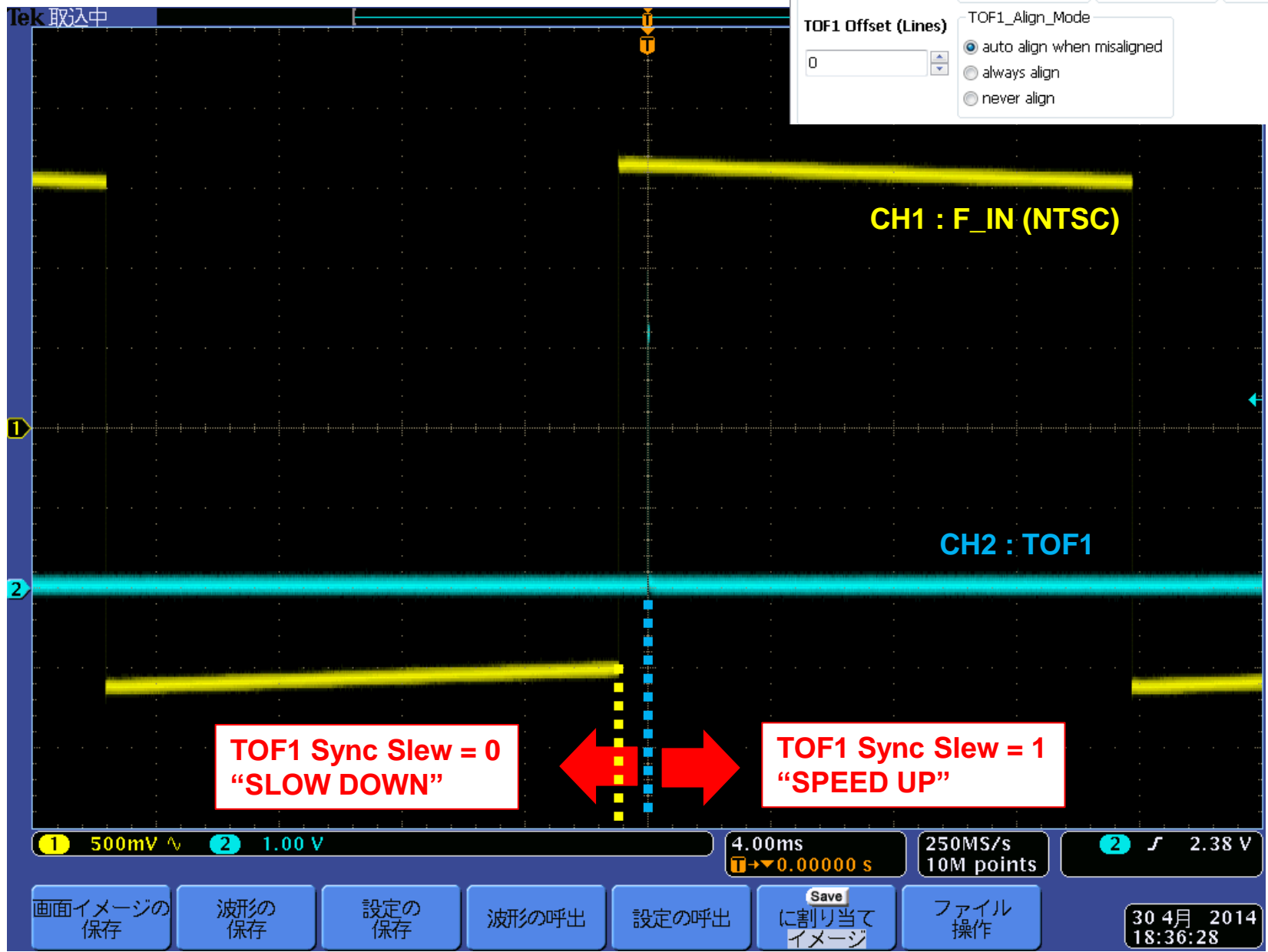
TOF1 Sync Near:  0 = Clean,  1 = Crash

TOF1 Sync Far:  0 = Clean,  1 = Crash

TOF1 Sync Slew:  0 = Slow Down,  1 = Speed Up

TOF1 Offset (Lines): 0

TOF1\_Align\_Mode:  auto align when misaligned,  always align,  never align



# LMH1983 TOF Alignment

Alignment Mode	TOF1 Sync Far	TOF1 Sync Near	TOF1 Sync Slew	Result
Auto Align	0 : Drift	0 : Drift	0 : Slow Down	TOF1 Drifts to the left
Auto Align	0 : Drift	0 : Drift	1 : Speed Up	TOF1 Drifts to the right
Auto Align	0 : Drift	1 : Crash	0 : Slow Down	Crash
Auto Align	0 : Drift	1 : Crash	1 : Speed Up	Crash
Auto Align	1 : Crash	0 : Drift	0 : Slow Down	Crash
Auto Align	1 : Crash	0 : Drift	1 : Speed Up	Crash
Auto Align	1 : Crash	1 : Crash	0 : Slow Down	Crash
Auto Align	1 : Crash	1 : Crash	1 : Speed Up	Crash
Always Align	0 : Drift	0 : Drift	0 : Slow Down	TOF1 Drifts to the left
Always Align	0 : Drift	0 : Drift	1 : Speed Up	TOF1 Drifts to the right
Always Align	0 : Drift	1 : Crash	0 : Slow Down	Crash
Always Align	0 : Drift	1 : Crash	1 : Speed Up	Crash
Always Align	1 : Crash	0 : Drift	0 : Slow Down	Crash
Always Align	1 : Crash	0 : Drift	1 : Speed Up	Crash
Always Align	1 : Crash	1 : Crash	0 : Slow Down	Crash
Always Align	1 : Crash	1 : Crash	1 : Speed Up	Crash

- When Sync Near/Far is both set to Drift, phase of FIN and TOF1 slowly aligns.
- When Sync setting includes “Crash”, FIN and TOF1 always be aligned immediately.

## [Question]

What are the difference above settings in the RED box ??