

Determining Official Time

A **Automatic Timing** — When recorded by properly operating automatic timing equipment, the pad time shall be the official time.

B **Semi-Automatic and Manual Timing** — Whenever semi-automatic or manual timing is used; only valid times shall be used in calculating the official time. The times shall be determined as follows:

- (1) If two of the three valid buttons or watch times agree, that shall be the time for that timing system.
- (2) If three valid buttons or watches disagree, the time of the intermediate button or watch shall be the time for that timing system.
- (3) If only two valid buttons or watch times are available, the time shall be the average of those two buttons or the average of the two watch times. The digits representing thousandths of a second shall be dropped with no rounding.
- (4) If only one valid button or watch time is available, the time of that button or watch shall be the time for that timing system provided it is supported by other information.

C **Primary Timing System Malfunction** — A malfunction may have occurred if:

- (1) The difference between the time obtained by the primary system and the back-up system(s) is approximately .30 second or greater; or
- (2) The place judge(s) reports a different order of finish; or
- (3) It is reported the swimmer missed the touchpad or had a soft touch.

D **Adjustment for Malfunction on a Lane** — When a malfunction is confirmed on a lane, the back-up times for that lane shall be calculated in accordance with

102.24.4B and integrated with the accurate primary times in establishing the official time and determining the results.

E Adjustment for Malfunction Equally Affecting an Entire Heat — When, because of an early or late start, or other equipment or operator malfunction, the time of the automatic or semi-automatic primary timing system is equally incorrect for all the lanes in a heat, but the order of finish and thus the absolute difference of time between the swimmers is accurate, the times of the primary system shall be adjusted by calculating the average difference between the primary times and the valid back-up times and adding, or subtracting when appropriate, that difference to the primary times of every lane in that heat. (See Appendix 1 on page 44)

Timing Judge Test Chart (HEAT MALFUNCTION)

- Primary -** Automatic (Late manual start confirmed)
- Secondary -** Semi-automatic, three buttons (button time not valid)
- Tertiary -** Manual, one watch

LANE	PRIMARY PAD TIME	WATCH TIME	WATCH TIME LESS PAD TIME	HEAT ADJUSTMENT	OFFICIAL TIME	ORDER OF FINISH
1	54.80	57.89				
2	54.13	57.20				
3	50.86	53.96				
4	51.68	54.80				
5	52.02	55.08				
6	53.00	56.08				
7	53.46	56.51				
8	54.00	57.04				