

CTS Example 1

	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6	Lane 7	Lane 8
Button	55.41	48.92	44.21			31.14	29.92	
Button	55.37	48.84		40.76			35.69	56.28
Button			44.21	41.22		42.25		12.27
BACKUP	55.39	48.88	44.21	40.99		36.69	32.81	34.27

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=====Race Summery=====Race 002=====

Colorado Time Systems

25 Yards

Event: 999 Heat: 10
 (002) Saturday 5-10-03 10:19.47 am

-----By Lane-----

Lane	Place	Time	
1	5	55.51	
2			(48.88)
3	4	44.03	
4	3	41.72	(40.99)
5			
6	2	34.42	(36.69)
7	1	33.00	(32.81)
8	6	56.17	(34.27)

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Starter OOF 6, 7, 3. 4. 2. 1, 8

Watch times:

<u>Lane 1</u>	<u>Lane 2</u>	<u>Lane 3</u>	<u>Lane 4</u>	<u>Lane 5</u>	<u>Lane 6</u>	<u>Lane 7</u>	<u>Lane 8</u>
55.32	48.97		40.87		31.22	33.05	56.32
55.67	48.83	44.07	40.63	n/s	31.11	32.81	56.28

	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6	Lane 7	Lane 8
Button	42.26	35.15		25.22	28.77	20.18		
Button	42.29	34.12	28.46	25.23	19.78			
Button						20.09		
BACKUP	42.27	34.63	28.46	25.22	24.27	20.13		

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 =====Race Summery=====Race 027=====

Colorado Time Systems

8 & Under Girls - 25 Yards Backstroke

Event: 23 Heat: 3

(027) Saturday 5-10-03 10:24.15 am

-----By Lane-----

Lane	Place	Time	
1	7		(42.27)
2	5		(34.63)
3	4	22.03	(28.46)
4	1	16.78	(25.22)
5	3	19.62	(24.27)
6	2	19.58	(20.13)
7			
8	6	42.12	

Starter's OOF 6, 5, 3, 4, 2, 8, 1
 Lane 1 - DQ

On original heat sheet, this is a full heat

Watch times:

<u>Lane 1</u>	<u>Lane 2</u>	<u>Lane 3</u>	<u>Lane 4</u>	<u>Lane 5</u>	<u>Lane 6</u>	<u>Lane 7</u>	<u>Lane 8</u>
42.37	35.11		25.49	19.99	20.59		
42.52	34.08	29.92	25.41	28.42		n/s	"oops" - where did this swimmer come from?

Coach times

- Lane 2 - "missed it "
- Lane 3 - 22.03
- Lane 6 - 19.42
- Lane 8 - 41.98

Electronic Timing - Lane Malfunction Calculation - Daktronics

Lane #	Pad Time	Button Times		av button	Watch Times		av watch	Av Button - Pad	Official Times
1	42.35	42.61	42.44		42.44	42.38			
2	40.86	40.98	40.94		40.78	40.66			
3	40.18	39.68	39.72		39.60	39.52			
4	39.52	39.65	39.58		39.41	39.47			
5	38.32	38.42	38.48		38.55	38.51			
6	39.12	38.68	41.92		38.57	38.62			

Calculated by: IAG _____
Event# Heat # _____

Hints

Calculate button-pad average for lanes 1,2,4,5 where buttons validate pad.

This is the adjustment for this heat applied to any button time used.

In lane 3 - The buttons do not verify the pad. Use button average and apply adjustment

In lane 6 - The buttons do not verify the pad or each other.

Use the button time that is validated by both watches and apply adjustment.

Note that Hy-Tek can calculate adjustment for you.

Electronic Timing - Lane Malfunction Calculation - Daktronics

Lane #	Pad Time	Button Times		av.button	av.button pad	Watch Times	Official Times	Order of finish
1	1:08.80	1:08.90	1:12.56			1:08.90		
2	1:06.70	1:06.12	1:06.19			1:05.99		
3	1:06.24	1:06.30	1:06.36			1:06.26		
4		1:06.34	1:06.22			1:06.16		
5	1:06.96	1:07.09	1:07.05			1:07.00		
6	1:07.97	1:06.20	1:07.23			1:07.30		

Total Diff

Avg Diff

OOF: 2, 4, 3, 5, 6, 1

Calculated by: _____

Event# _____ Heat # _____

Electronic Timing - Heat Malfunction Calculation

Lane #	Pad Time	Button Times		Watch Times		av watch	Official time before adj	Watch minus pad/Button	Official Times
1	38.75	38.95	38.74	42.44	42.38				
2	37.26	37.04	37.18	40.78	40.62				
3	36.58	35.98	36.02	39.58	39.52				
4	35.92	35.85	35.88	39.41	39.45				
5	34.74	34.71	34.78	38.55	38.51				
6	35.52	34.98	38.22	38.57	38.62				

Total Difference

Average difference

Calculated by: _____

Event: _____ Heat: _____

Process:

Calculate average watch times

Calculate watch/pad difference for each valid lane. Determine Average difference.

Official time before adj = pad times that are verified by buttons, or button average if verify each other

Add average difference to each verified time for official time.

In lane 6 - The buttons do not verify the pad. Add the average difference to all pad and button times and then apply normal lane adjustment procedures

Electronic Timing - Heat Malfunction Calculation - Daktronics

Lane #	Pad Time	Button Times		av button	button-pad	Watch Times		av watch	Official time before adj	Watch minus pad/Button	Official Times
1	38.75	38.95	38.84			42.44	42.38				
2	37.26	37.40	37.28			40.78	40.62				
3	36.58	36.08	36.12			39.58	39.52				
4	35.92	35.95	35.98			39.41	39.45				
5	34.74	34.81	34.88			38.55	38.51				
6	35.52	35.08	38.32			38.67	38.62				

Calculated by: _____
 Event: _____ Heat: _____
 Process: _____

Total Difference _____
 Average difference _____

- Calculate average watch times
- Calculate watch/pad difference for each valid lane. Determine Average difference (Heat Adjustment)
- Official time before adj = pad times that are verified by buttons
- Add heat adjustment to each verified time for official time.
- In lane 3, 6 - The buttons do not verify the pad. Add the heat adjustment to all pad and button times and then apply normal lane adjustment procedures

CTS Example 1 - Instructor

	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6	Lane 7	Lane 8
Button	55.41	48.92	44.21			31.14	29.92	
Button	55.37	48.84		40.76			35.69	56.28
Button			44.21	41.22		42.25		12.27
BACKUP	55.39	48.88	44.21	40.99		36.69	32.81	34.27

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=====Race Summary=====Race 002=====

Colorado Time Systems

25 Yards

Event: 999 Heat: 10
 (002) Saturday 5-10-03 10:19.47 am

-----By Lane-----

Lane	Place	Time			
1	5	55.51	✓		
2				(48.88)	✓
3	4	44.03	✓		
4	3	41.72		(40.99)	40.76 ✓
5					
6	2	34.42		(36.69)	31.14 ✓
7	1	33.00	✓	(32.81)	
8	6	56.17	✓	(34.27)	

N/S Lane 5

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Starter OOF 6, 7, 3. 4. 2. 1, 8

Watch times:

Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6	Lane 7	Lane 8
55.32	48.97		40.87		31.22	33.05	56.32
55.67	48.83	44.07	40.63	n/s	31.11	32.81	56.28

Notes:

- Lane 2: Use button average
- Lane 4: Use button time validated by watches
- Lane 6: Use button time validated by watches

	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6	Lane 7	Lane 8
Button	42.26	35.15		25.22	28.77	20.18		
Button	42.29	34.12	28.46	25.23	19.78			
Button						20.09		
BACKUP	42.27	34.63	28.46	25.22	24.27	20.13		

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=====Race Summary=====Race 027=====

Colorado Time Systems

8 & Under Girls - 25 Yards Backstroke

Event: 23 Heat: 3
 (027) Saturday 5-10-03 10:24.15 am

-----By Lane-----

DQ	Lane	Place	Time	
	4	7		(42.27)
	2	5		(34.63) ✓
	3	4	22.03 ✓	(28.46)
	4	1	16.78	(25.22) ✓
	5	3	19.62 ✓	(24.27)
	6	2	19.58 ✓	(20.13)
	7			
	8	6	42.12 ✓	

NS Lane 7.

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Starter's OOF 6, 5, 3, 4, 2, 8, 1 On original heat sheet, this is a full heat

Watch times:

Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6	Lane 7	Lane 8
42.37	35.11		25.49	19.99	20.59		
42.52	34.08	29.92	25.41	28.42		n/s	"oops" - where did this swimmer come from?

Coach times

- Lane 2 - "missed it "
- Lane 3 - 22.03
- Lane 6 - 19.42
- Lane 8 - 41.98

Lane Official times

- 1 42.27 - confirmed button average - DQ
- 2 34.63 - take av - 1 watch confirms each, confirmed by oof
- 3 22.03 - confirmed by order of finish - only 1 watch - doesn't agree - coach wrote time on board
- 4 25.22 - 2 confirmed buttons, oof - over swimmer starts - pad activated when earlier swimmer exited pool
- 5 19.62 - confirmed by 1 button
- 6 19.58 - confirmed by coach time & order of finish
- 7 N/S
- 8 42.12 - no watch times - oof & coach - Swimmer from heat 2 lane 8; NS original swimmer L8

Electronic Timing - Lane Malfunction Calculation - Daktronics

Instructor

Lane #	Pad Time	Button Times		av button	Watch Times		av watch	Av Button - Pad	Official Times
1	42.35	42.61	42.44	42.52	42.44	42.38	42.41	0.17	42.35
2	40.86	40.98	40.94	40.96	40.78	40.66	40.72	0.10	40.86
3	40.18	39.68	39.72	39.70	39.60	39.52	39.56		39.58
4	39.52	39.65	39.58	39.61	39.41	39.47	39.44	0.09	39.52
5	38.32	38.42	38.48	38.45	38.55	38.51	38.53	0.13	38.32
6	39.12	38.68	41.92	40.30	38.57	38.62	38.59		38.56

0.49

Calculated by: IAG

0.12

Event#

Heat #

Hints

Calculate button-pad average for lanes 1,2,4,5 where buttons validate pad.

This is the adjustment for this heat applied to any button time used.

In lane 3 - The buttons do not verify the pad. Use button average and apply adjustment

In lane 6 - The buttons do not verify the pad or each other.

Use the button time that is validated by both watches and apply adjustment.

Note that Hy-Tek can calculate adjustment for you.

Electronic Timing - Lane Malfunction Calculation - Daktronics

Instructor

Lane #	Pad Time	Button Times		av.button	av.button - pad	Watch Times	Official Times	Order of finish
1	1:08.80	1:08.90	1:12.56	1:08.90	0.10	1:08.90	1:08.80	6
2	1:06.70	1:06.12	1:06.19	1:06.15		1:05.99	1:06.05	1
3	1:06.24	1:06.30	1:06.36	1:06.33	0.09	1:06.26	1:06.24	3
4		1:06.34	1:06.22	1:06.28		1:06.16	1:06.18	2
5	1:06.96	1:07.09	1:07.05	1:07.07	0.11	1:07.00	1:06.96	4
6	1:07.97	1:06.20	1:07.23	1:07.23		1:07.30	1:07.13	5

Total Diff 0.30

Avg Diff 0.10

OOF: 2, 4, 3, 5, 6, 1

Calculated by: _____

Event# _____ Heat # _____

Electronic Timing - Heat Malfunction Calculation

Instructor

Lane #	Pad Time	Button Times		Watch Times		av watch	Official time before adj	Watch minus pad/Button	Official Times
1	38.75	38.95	38.74	42.44	42.38	42.41	38.75	3.66	42.35
2	37.26	37.04	37.18	40.78	40.62	40.70	37.26	3.44	40.86
3	36.58	35.98	36.02	39.58	39.52	39.55	36.00		39.60
4	35.92	35.85	35.88	39.41	39.45	39.43	35.92	3.51	39.52
5	34.74	34.71	34.78	38.55	38.51	38.53	34.74	3.79	38.34
6	35.52	34.98	38.22	38.57	38.62	38.59			38.58

Total Difference 14.40

Average difference 3.6

Calculated by: _____

Event: _____ Heat: _____

Process:

Calculate average watch times

Calculate watch/pad difference for each valid lane. Determine Average difference.

Official time before adj = pad times that are verified by buttons, or button average if verify each other

Add average difference to each verified time for official time.

In lane 6 - The buttons do not verify the pad. Add the average difference to all pad and button times and then apply normal lane adjustment procedures

Electronic Timing - Heat Malfunction Calculation - Daktronics

Instructor

Lane #	Pad Time	Button Times		av button	button-pad	Watch Times		av watch	Official time before adj	Watch minus pad/Button	Official Times
1	38.75	38.95	38.84	38.89	0.14	42.44	42.38	42.41	38.75	3.66	42.35
2	37.26	37.40	37.28	37.34	0.08	40.78	40.62	40.70	37.26	3.44	40.86
3	36.58	36.08	36.12	36.10		39.58	39.52	39.55	36.01		39.61
4	35.92	35.95	35.98	35.96	0.04	39.41	39.45	39.43	35.92	3.51	39.52
5	34.74	34.81	34.88	34.84	0.10	38.55	38.51	38.53	34.74	3.79	38.34
6	35.52	35.08	38.32	36.70		38.67	38.62	38.64			38.59

0.36

Total Difference 14.40

Calculated by: _____

0.09

Average difference 3.6

Event: _____ Heat: _____

Process:

Calculate average watch times

Calculate watch/pad difference for each valid lane. Determine Average difference.

Official time before adj = pad times that are verified by buttons

If pad not verified, but buttons verify each other, apply normal Daktronics timing adjustment

Add average difference to each verified time for official time.

In lane 6 - The buttons do not verify the pad. Add the average difference to all pad and button times and then apply normal lane adjustment procedures