

TIMING EQUIPMENT OPERATOR CLINIC

ARIZONA SWIMMING



EQUIPMENT OPERATOR REQUIREMENTS

- Required for AZSI equipment rentals
- Must have taken clinic and passed
- Responsible for equipment rented & return
- Fluent in connections
- Capable of simple repairs
- Identify non-working equipment

TIMING EQUIPMENT SELECTION

- Prelims/Finals
- # Lanes
- Pads
- Scoreboard
- Length of cord
- Meet format / deck layout
- Scoring tables placement

EQUIPMENT RENTAL PROCESS

- Rental form
- Coordinating pick up / return
- Upcoming form for equipment failed / problems
- Upcoming training / qualification of equipment operator
 - At least one person per club that rents equipment

DECK SET-UP & CONNECTIONS

Follow A logical progression

- Scoring table / equipment
- Cord / pad / buttons layout
- Power source / cords
- Start stand / horns
- Scoreboard
- Announcer audio
- Secure trailer

EQUIPMENT TROUBLE SHOOTING

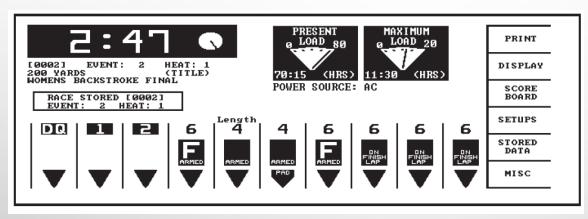
- Buttons: watch for no button or always late/early button
- Pads: "no touches" or always firing
 - Colorado test meter
 - Inflation / deflation needle & syringe
- Prime cord: when pads & buttons verified
- Start stand: check connections
- Microphone: have alternates on hand
- Power source consistent / no "tripping."
- Printer: extra toner cartridges
- All connections water free
 - LPS 3 rust inhibitor spray

RETURN EQUIPMENT PROPERLY

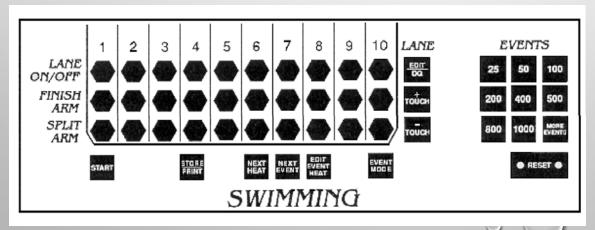
- Identify non-working equipment with yellow caution tape
- Pads
 - Cart white / yellow
- Equipment boxes
 - Black (major)
 - Yellow
 - System 5 case
 - Printer
 - UPS
 - NEW start stand
- Trailer
 - Secure equipment for travel

COLORADO TIMING SYSTEM TRAINING

• System 5



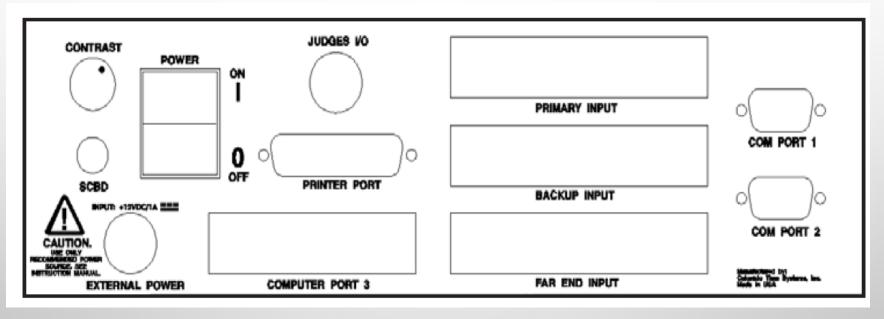








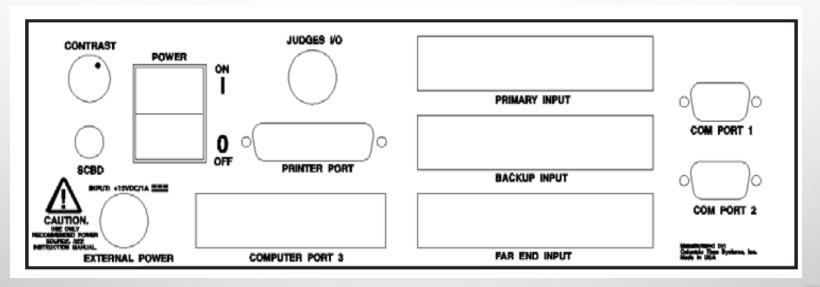
SYSTEM 5 REAR PANEL LAYOUT



- Computer port 3 not used (program updates)
- Com port 2 not used (TV scoreboard input)
- Backup input not used (2 system 5s)
- Judges I/O not currently used



S5 EQUIPMENT CONNECTIONS



System 5 connections layout

- Primary input: to prime cord
- Com port 1 to hy-tek
- Printer port to printer
- SCBD to scoreboard



START STAND CONNECTIONS



- Microphone
- Start to prime cord
 NO=not omega
- Speakers

Remember:

Turn "off" when not in use when no power source is connected.

START CORD / PRIME CORD

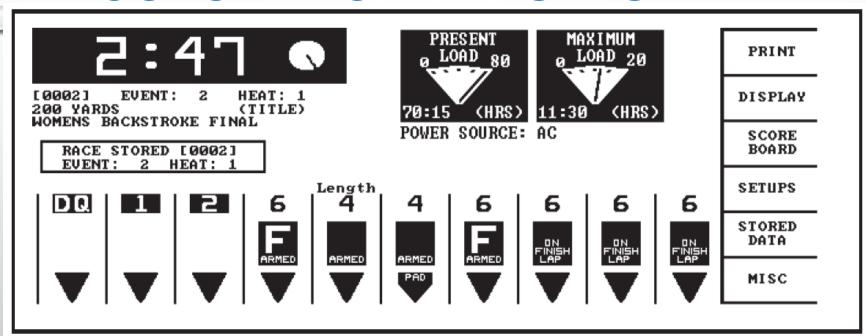


• "START " NOT BACKUP

CONNECTIONS, CONT'D

- Hy-Tek meet manager computer
 - To a reliable power source
 - To swimmer 5
 - To printer
- Prime cord @ each lane
 - Pad connects to "prime"
 - Button connects to "button"

OPERATING COLORADO TIMING DISPLAY

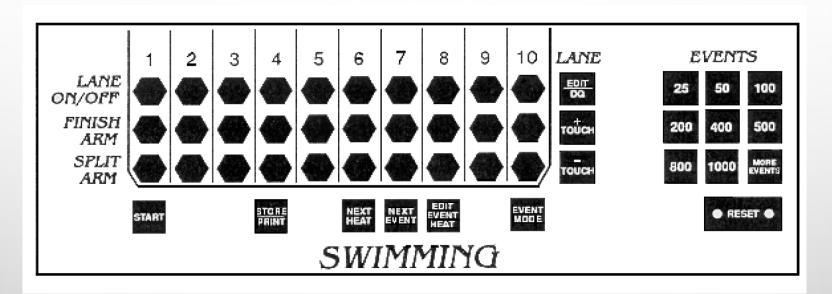


- Lane disqualified
- Finish place
- On length 6 finished armed
- On length four pad armed
- Oops.. Pad fault
- On length 6 finish lap noted

- Race number; event & heat numbers plus race description
- Race stored data information
- Battery condition and power source
- Soft keys
- Running race time



COLORADO TIMING KEYBOARD



- Start (if automatic FAILS)
- Store race in memory & print it
- Advances race to next heat
- Advances race to next event
- Edit event or heat if its wrong
- Mode of entering events

- Add or subtract touches (pads only)
- Finish arm lane
- Split arm lane
- Reset (two fingers)
- Enter DQ or edit lane on fly
- Heat distance if not uploaded



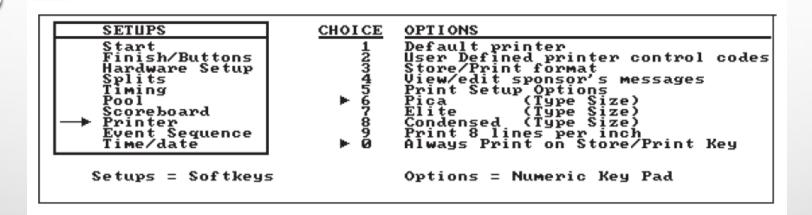


GETTING STARTED

- Flip red toggle switch in back to turn-on Swimmer 5.
- After warm-up, select "Swimming Program."
- Land on "reset" screen.
- You are ready to set-up swimmer 5.

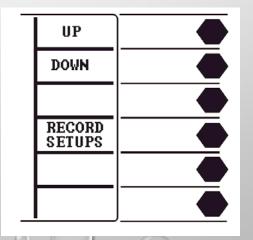


SET-UP OF SYSTEM 5



- Press "set-ups" soft key
- UP/DOWN to areas
- 1-10 keys enter to change
- Review all options— you'd be surprised

Push Setup; brings up







SET-UP --- START

SETUPS

Start
Finish/Buttons
Hardware Setup
Splits
Timing
Pool
Scoreboard
Printer
Event Sequence
Time/date

Setups = Softkeys

CHOICE OPTIONS

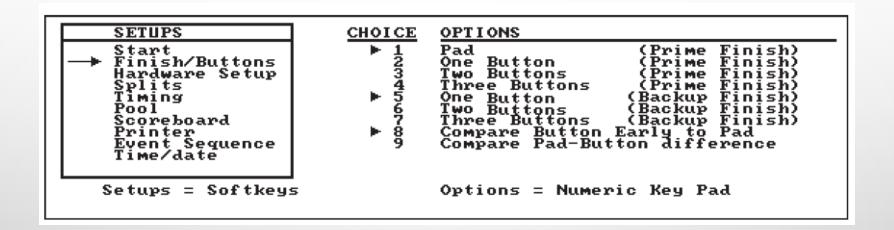
1 Automatic
Manual

Options = Numeric Key Pad

 Obvious choice is automatic for start

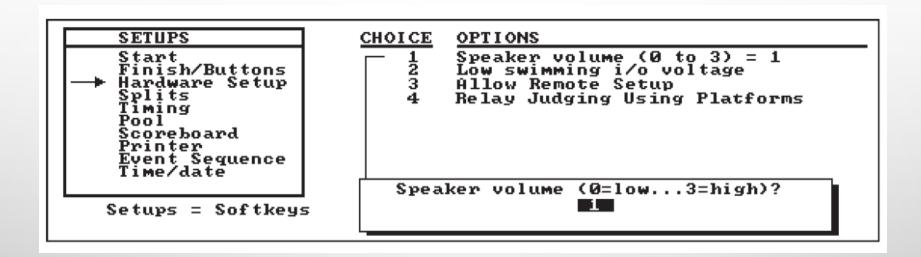


SET-UP --- FINISHES / BUTTONS



- For 2 button system select 3
- For pads select 1, 5 and 9 (8 only gives early button to pad.. You want to see both)

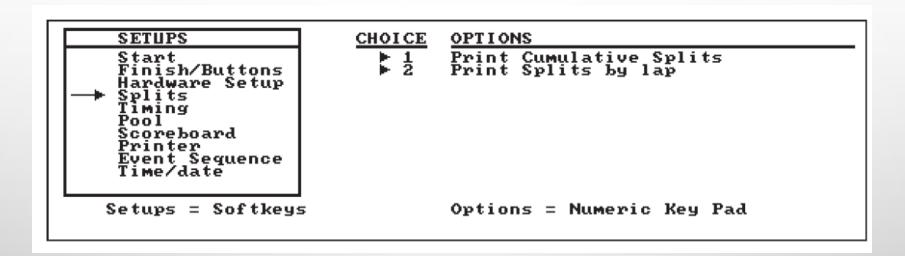
SET-UP --- HARDWARE SETUP



- Volume is for speaker inside system 5 not the start system. What ever you like
- Turn on allow remote set-up if you want to upload from Hy-tek



SET-UP --- SPLITS

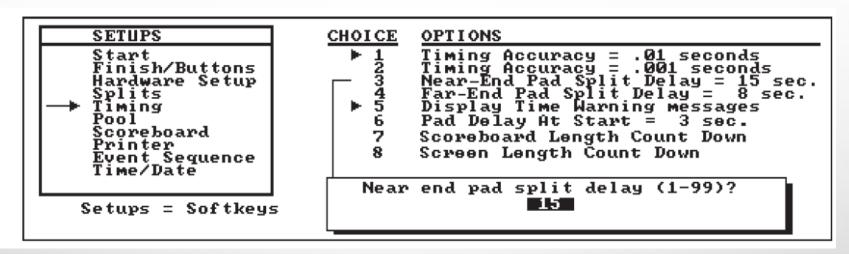


- You can use both cumulative splits and lap
- Generally cumulative is selected





SET-UP --- TIMING

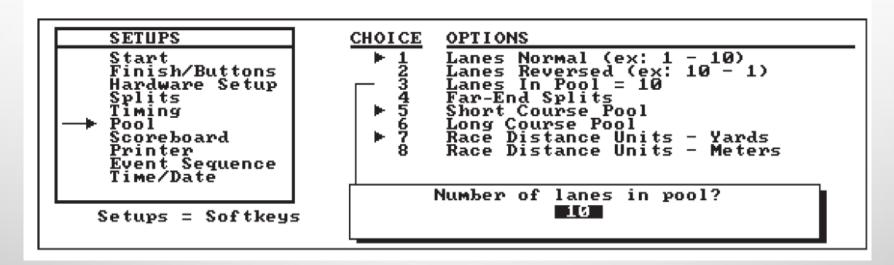


- Always 1 never 2
- 3 is for start end pad delay during race (13-15)
- 4 is for far end pad delay during race (13-15)
- 5 is for the error message. Should be off.
- 6. Pad delay on start 10 is ok because of over top



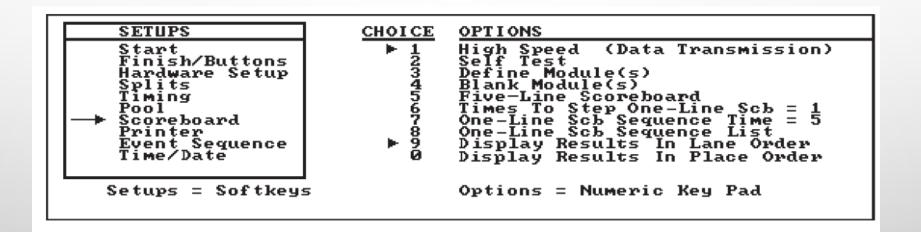


SET-UP --- POOL



- 1 or 2 depends on where start stand is
- If using far end splits you must turn on.. Except for the 50 must be off if starting from turn end!! Start end delay must be set low.

SET-UP --- SCOREBOARD



- Ask facility for assistance!!
- For multi-lane scoreboard, 1 and 9 are all you need. One line are tricky.



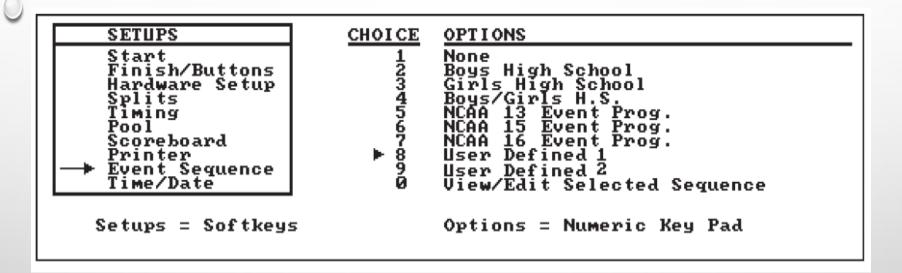
SET-UP --- PRINTER

SETUPS Start Finish/Buttons Hardware Setup Splits Timing Pool Scoreboard Printer Event Sequence Time/date	CHOICE 12 34 5 6 7 8 9	OPTIONS Default printer User Defined printer control codes Store/Print format View/edit sponsor's messages Print Setup Options Pica (Type Size) Elite (Type Size) Condensed (Type Size) Print 8 lines per inch Always Print on Store/Print Key
Setups = Softkeys		Options = Numeric Key Pad

- Always select 0
- Condensed, 8, gets all lanes on one page



SET-UP --- EVENT SEQUENCE



- When you upload from computer generally select either 8 or 9. Select correct meet.
- System 5 must be set to reset for the 5 to accept a upload!!

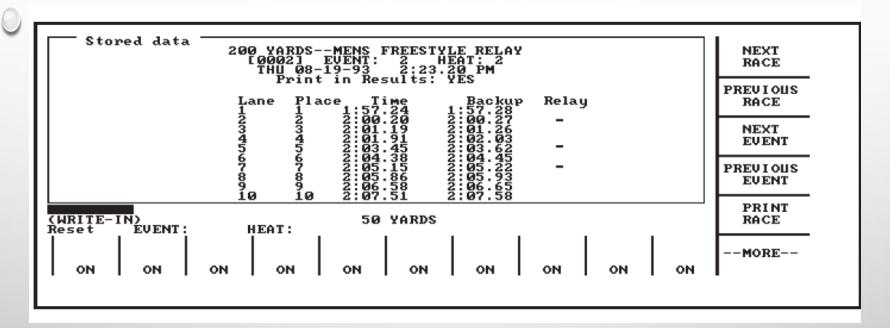


FINAL SET UP TIPS

- Some items require 'enter' to be pushed after selection
- After uploading events to the S5, resave setups to save the upload of events
- Replace batteries prior to start of meet

- Print copy of setups for admin. Keep copy with the
 5: while in printer, press soft key to "print set-ups"
- Recheck set ups daily.
 Somehow they magically change.
- Turn-off 5 at end of each session and after data entered into Hy-tek.

RE-PRINTING PREVIOUS HEATS



- Press "STORED DATA" soft key, then "PREVIOUS RACE."
- Notice again this is by race number, but you can scroll through to find your race and reprint.
- "Quit" takes you back to current race

MORE QUESTIONS ???

- Rob Clark: Equipment Chair equipment@azswimming.org
 - Questions about equipment
- Art Gramer: Officials Chair officials@azswimming.org
 - Questions about officiating
- Carla Morelli: Executive Director office@azswimming.org
 - Certification applications, officials gear, membership
- Greg Dozer: General Chair generalchair@azswimming.org