

Athletics Start Control

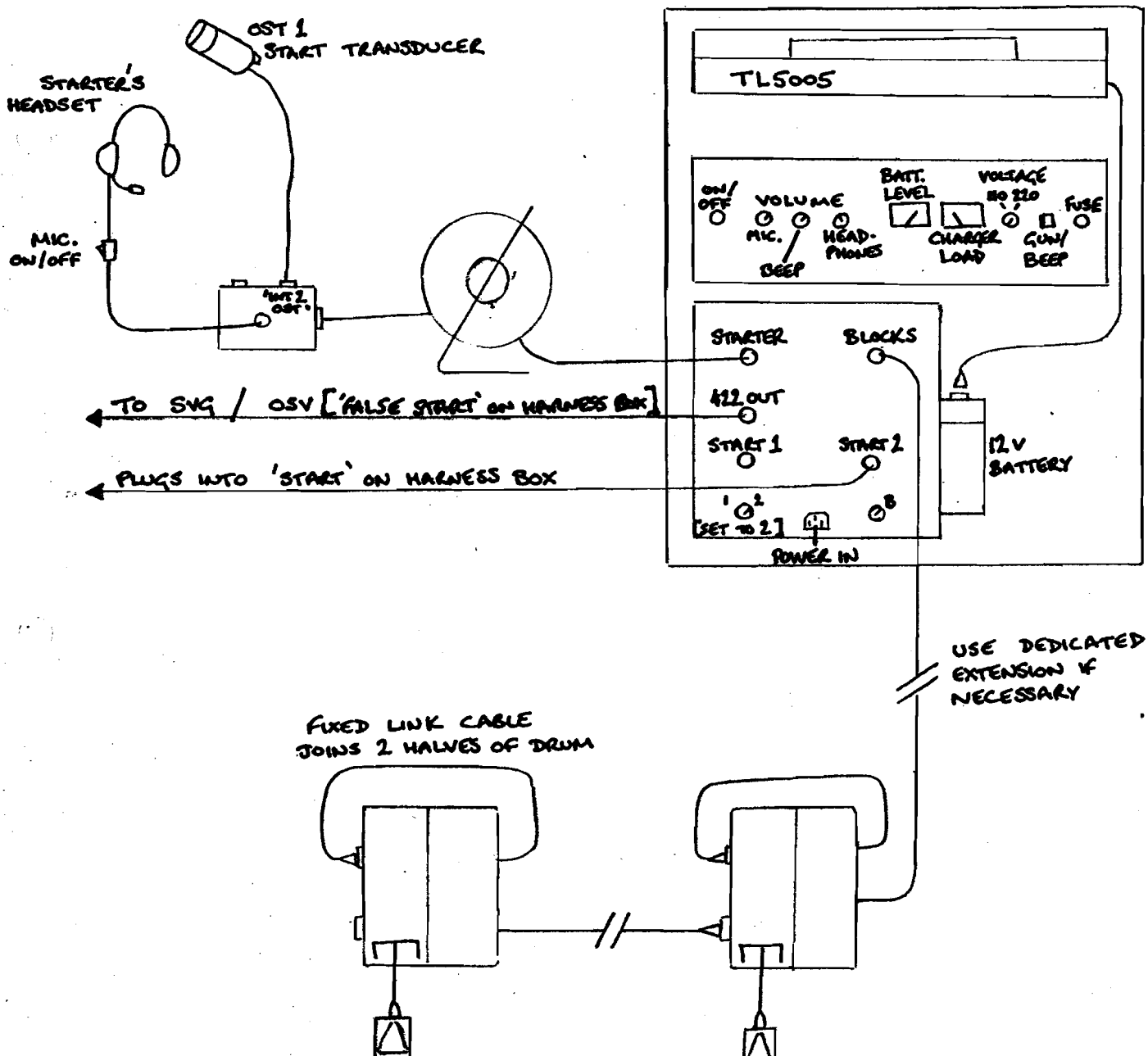
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IMPORTANT NOTES

- Always secure locking tab on TL5005 shelf when trolley is to be moved/shipped.
- Always disconnect tuchel from (OSM6) battery within trolley when not in use/in transit. Battery will power trolley for 1-2 hours if disconnected from mains power.
- Complete set up before switching on amplifier.

Note → The standard indoor/outdoor TL event configurations are on the ST.pdfCD.

SET-UP SCHEMATIC



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Function Commands

FUNC Compute- NOT USED

Func Scb - NOT USED

FUNC.PRINT - Allows you to select the number of copies of the printout of each race. 1 is normal → a full record for OE can be printed at the end of the competition.

- There are also options to toggle between printing in lane order or time order. Lane order is normal.

FUNC.INIT – 0 – REACTION TIME
→ Check always set to 100ms (IAAF rule)

1 – STARTER BEEP BEEP

→ Controls duration etc, of false start beeps in starter's earphone.

Normal settings are:-

TOTAL LENGTH	5000MS
DURATION ON	500MS
DURATION OFF	300MS

2 – NO. OF COPIES (of print)

3 – CHANGE DELAY – NOT USED

4 – TRACK BEEP BEEP

→ Controls false-start beep through track speakers. Since Sydney always used. Settings: -

TOTAL LENGTH	5000MS (ON) 0ms (OFF)
DURATION ON	500MS
DURATION OFF	300MS

5 – BEFORE GUN SHOT

→ Standard IAAF value is 35ms*. Any start more than 35ms before the START PULSE is denote by 'P' on printout – does not generate the beeps – starter must make own decision to recall.

* After discussions with Fasttrack/UK Athletics, value set at 100ms for UK meets.

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ASC – Operation

Switch on TL5005.

Enter date.

Func.Synchro → Type time for synchro, then ENTER.

→ EDIT ID. To arm, then use external start button to synch trolley and scan-o-visions.

Func.Clear to clear all races.

EDIT NB LANE → Enter number of lanes to be used.

→ Choose or depending on position of trolley. [i.e. is lane 1 nearest to or farthest from the trolley]

INIT HIS → to initialise high-speed interface. Blocks not connected otherwise.

EDIT ID → Press 0-3 to select kind of race.

→ Type race length, then ENTER.

→ ENTER (0) for meters.

→ Select 0-4 for phase. If heats hit '0' then type heat # + ENTER.

→ Select 0-3 (men/women/Dec/Hep).

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A black square will appear next to each lane # on the screen to signify correct function (receipt of pulse). Any false start is denoted by a flashing square, and by an ** next to the relevant lane on the printout.

If more than one lane false starts, the earliest is shown as **. All others by *. Only the first is awarded a false start.

If the start is more than 100ms before the gun it is then denoted as 'P'. In some cases there may be nothing printed at all next to a lane. It is possible that the block failed to function, but more likely that the start was too early to be registered. In such cases advise the starter that the lane marked as ** was not necessarily the first to go.

After a false start, press NEXT then ARM (do not change heat #).

If start was good press SAME ID to keep all race values, but change heat #.
Only use EDIT ID for new event.

All reaction times are sent to TV automatically. Only use FUNC. TV, to resend.

Note: The FUNC.TEST TV should only be used to test the line. To test the graphics always simulate a race, or use FUNC. TV to send an old result. 'TEST TV' uses a different protocol.

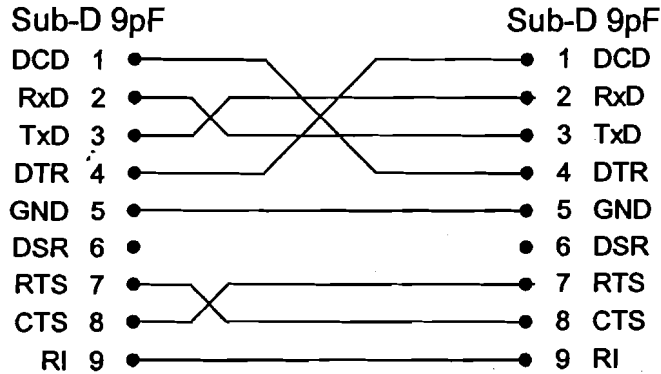
SETTINGS

The parameters of the RS422 output are 9600/7/None/1

4. WIRING AND CONNECTORS

Connect the cable 9051-1306 delivered with the *Serial Multiplex* between a serial port of the Scan'O'Vision computer and the *PC COM* of the *Serial Multiplex*.

The 9051-1306 cable is a Null Modem cable :



The 5 connectors for the serial lines of the OSV Bridge are defined for different use :

Connector	Type	Use
PC COM	Sub-D 9pM screw	RS 232 bidirectional link to the computer with a Null Modem cable
Serial 1	Sub-D 9pM screw	RS 232 bidirectional DH, serial printer, PC display
Serial 2	Sub-D 9pM screw	RS 232 bidirectional and RS 422 bidirectional DH, PC display, display, wind display, wind gauge (without power supply), false start system
Serial 3 and 4	Sub-D 9pF for sliding connector	RS 422 bidirectional with 30V power supply Wind gauge, display, wind display, false start system

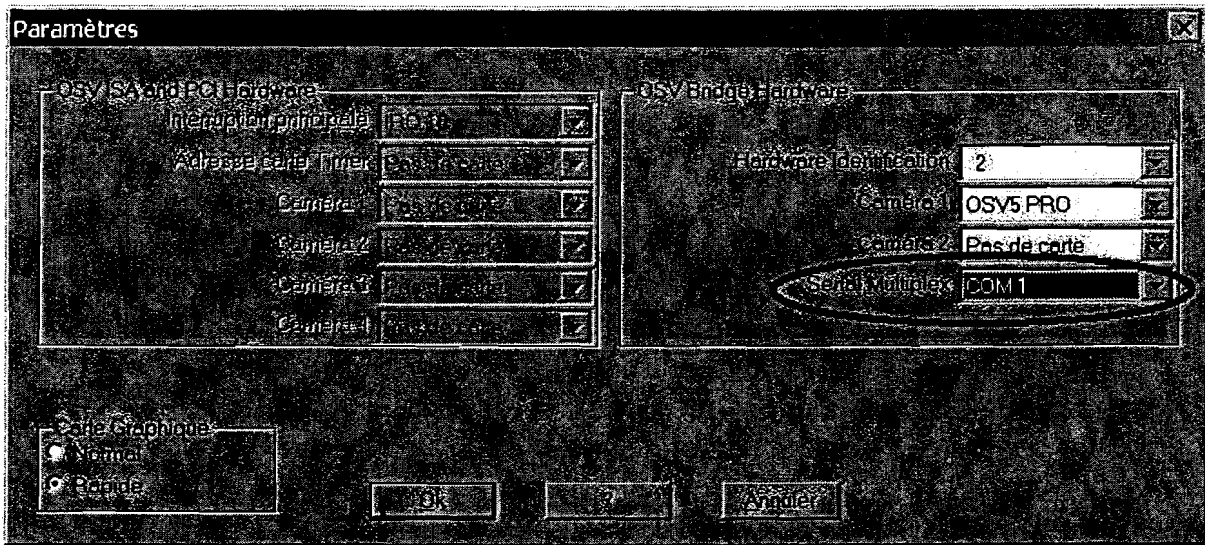
Pin	Serial PC	Serial 1	Serial 2	Serial 3 et 4
1			422 TX+	
2	232 RX	232 RX	232 RX *	
3	232 TX	232 TX	232 TX	422 TX-
4	(232 DTR)	(232 DTR)		422 TX+
5	GND	GND	GND	422 RX-
6	(232 DSR)	(232 DSR)		422 RX+
7	232 RTS	(232 RTS)		GND
8	232 CTS	(232 CTS)		
9			422 TX-	
Compatible :	<ul style="list-style-type: none"> PC 	<ul style="list-style-type: none"> PC ARES PRN 	<ul style="list-style-type: none"> PC (RX/TX) PowerTime 	<ul style="list-style-type: none"> Conv. 232/422 (3334-904) OGM 5005 I/O2 (except ±12V) ARES SCB (except 20mA) OSV1 SCB (except 20mA)

* : you must select the corresponding software for the Scan'O'Vision if you use the 232 RX or 422 RX± input.

The 30V output on Serial 3 and 4 must only be used with the OMEGA Alzeé wind gauge

5. SOFTWARE CONFIGURATION

In order to use the *Serial Multiplex*, you must declare in the OSV4_SETTING.EXE software ("File" "Parameters" menu) on which serial port of the computer it is connected :



If the *Serial Multiplex* is not connected, put the selection on "not used".
 Validate the selection with the "Ok" button and exit the program.

Start the main program (OSV4.EXE); you can verify the connexion of the *Serial Multiplex* in the "About..." window of the "Help" menu. The version of the option is given if the connexion is correctly made.



In the several peripheral configuration windows ("*Display*" "*Parameters*", "*Display*" "*Wind gauge*" or "*DH*" "*Parameters*" for example), select the port SERIAL 1 to 4 to use the connectors of the *Serial Multiplex* (COM 1 to 4 correspond with the serial lines of the computer; not automatically all present).

6. INDICATORS

There are three electroluminescent control diodes on the *Serial Multiplex* :

- red LED : this LED lights up each time a message is sent from the *Serial Multiplex* to the computer.
- yellow LED : this LED blinks when the *OSV Bridge* is switched on or when doing a reset of the *Serial Multiplex*.
- green LED : this LED lights up each time a message is sent from the computer to the *Serial Multiplex*.

7. TROUBLESHOOTING

If the *Serial Multiplex* is not detected, you must check the wiring :

- Is the correct port COM selected in the OSV4_SETTING.EXE program ?
- Is the correct junction cable in place between the computer and the *Serial Multiplex* ?
- Does the serial line of the computer support the transmission 57600 bauds, 8 data bits with a RTS/CTS handshaking ?

If necessary, do a RESET using the point of a pen to press the switch in the hole situated on the left of the PC COM connector (on the *OSV Bridge*); this way, it is possible to re-initialize the *Serial Multiplex* without having to switch off the *Scan'O'Vision Bridge*.

TITLE: INLETES Connect Room Wiring

