

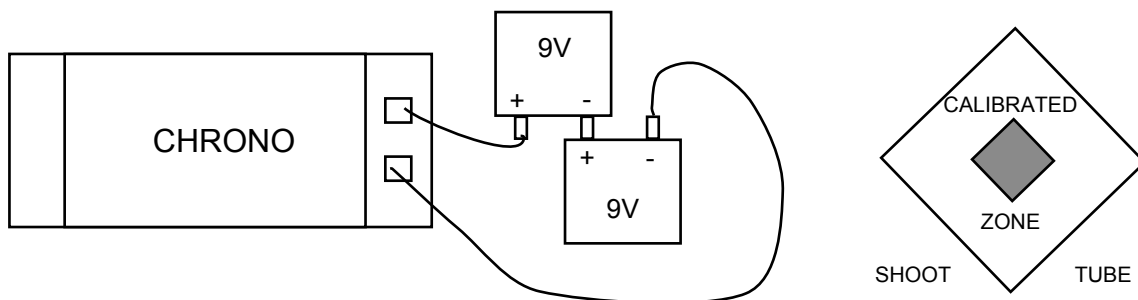
SKAN PRO1S3 CHRONOSCOPE INSTRUCTIONS - READ BEFORE USE

1. THE SKAN PRO1S3 IS A SENSITIVE INSTRUMENT AND TO WORK CORRECTLY IT MUST BE USED IN ACCORDANCE WITH THE INSTRUCTIONS.
2. ENSURE THE MUZZLE CHRONO DISTANCE IS ADEQUATE FOR THE GUN YOU ARE TESTING. IF YOU ARE TOO CLOSE THE MUZZLE BLAST CAN PRODUCE SILLY READINGS I.E. 20-100FT/LBS FROM A 10FT/LB GUN.
3. ENSURE THE CHRONO IS NOT ON THE SAME BASE AS THE MUZZLE REST SO MECHANICAL VIBRATION CANNOT BE TRANSMITTED TO THE CHRONO WHEN THE GUN IS FIRED. (DISPLAY WILL SHOW ANYTHING OTHER THAN VELOCITY READING).
4. THIS UNIT IS IMMUNE TO FLUORESCENT LIGHT BUT KEEP ANY NORMAL (FILAMENT TYPE) WELL AWAY.
5. SILENCERS TEND TO CONCENTRATE THE PULSE OF DIRTY AIR THAT PRECEDES THE PELLET AND THIS CAN BE DENSE ENOUGH TO TRIGGER THE FRONT SENSOR BEAM AHEAD OF THE PELLET THUS GIVING AN OBVIOUSLY SILLY READING. INCREASE THE MUZZLE TO CHRONO DISTANCE UNTIL YOU RECEIVE SENSIBLE RESULTS.
6. MAKE SURE ANY PELLET STOP USED IS PLACED FAR ENOUGH BEHIND THE CHRONO TO ENSURE IT CANNOT BE DAMAGED BY REBOUNDED PELLETS.

ALWAYS WEAR PROTECTIVE EYE SHIELDS

SETTING UP

1. CONNECT THE 2 WIRES FROM THE POWER UNIT TO THE RED AND BLACK TERMINALS (EITHER WAY ROUND) ON THE TOP REAR OF THE CHRONO AND SWITCH ON. FOLLOW FLOW CHART INSTRUCTIONS TO SELECT REQUIRED OPERATING MODE.
2. USE A MUZZLE REST TO ENSURE ACCURATE SHOT PLACEMENT THROUGH THE CHRONO.
3. KEEPING MUZZLE 10" AWAY FROM CHRONO FRONT FIRE THROUGH THE CENTRE OF THE TUBE.
4. ENSURE A SPACE IS LEFT BEHIND THE CHRONO BEFORE THE PELLET TRAP TO ALLOW SMOKE TO ESCAPE AND TO PROTECT THE UNIT FROM REBOUNDED PELLETS.
5. FOR AIRGUNS PRODUCING OIL AFTER TUNING AND OVER 12FT/LB VERSIONS INCREASE MUZZLE/CHRONO SEPARATION TO 12" AT LEAST.
6. SUNLIGHT ON EITHER FACE OF THE CHRONO MUST BE EXCLUDED FROM THE SHOOT TUBE BY CLOSING EACH END WITH THIN CARDBOARD (CORNFLAKE PACKET IS IDEAL).
7. KEEP SENSOR SLOTS CLEAN - USE SOFT CLOTH CAREFULLY - NO LIQUID OR SOLVENTS - DO NOT CLEAN TUBE (TO MINIMISE REFLECTIONS).
8. TO POWER FROM BATTERIES USE TWO 9V IN SERIES (PP9) CONNECT + TERM OF ONE TO - NEG TERMINAL OF OTHER AND CONNECT REMAINING BATTERY TERMINALS TO CHRONO REAR SNAP TERMINALS (EITHER WAY ROUND). PLEASE NOTE BATTERY LEADS ARE NOT SUPPLIED.



IMPORTANT THIS UNIT IS DESIGNED FOR AIRGUNS ONLY. NOT SUITABLE FOR FIREARMS

- MAY BE USED FOR PAINTBALLS PROVIDING SENSOR SLOTS ARE COVERED WITH CLING FILM
- NEVER POWER FROM A GENERATOR
- UNIT MUST BE KEPT DRY AND ONLY POWERED FROM BATTERIES IF USED OUTSIDE. DO NOT STORE IN DAMP ATMOSPHERE AS CONDENSATION WILL AFFECT OPERATION
- THE PATENTED SKAN SELF CHECK FACILITY ENABLES THE USER TO CHECK AT ANY TIME THE ACCURACY OF THE UNIT. SHOULD THE S/C FAIL CHECK THE FOLLOWING:
 - S/C FAIL FMB FRONT BEAM OBSTRUCTED OR SHOT (CLEAN)
 - S/C FAIL RMB REAR BEAM OBSTRUCTED OR SHOT (CLEAN)
 - EXCESS SUNLIGHT CAN CAUSE EITHER OF ABOVE (SHADE)
 - SELF CHECK SHOULD DISPLAY VELOCITY BETWEEN 447 AND 450.99 FT/SEC
- OBVIOUS FALSE READINGS CAN BE CAUSED BY SHOOTING TOO CLOSE TO CHRONO FRONT OR NOT SHOOTING THROUGH THE TUBE CENTRE (EITHER DOWNWARDS OR LEFT/RIGHT OF CENTRE CALIBRATED ZONE)

ADVICE FOR F.A.Q. ON SKAN PRO1S3

Q. INCORRECT READINGS OR SHOWS MISS ON DISPLAY

- A. MUZZLE TOO CLOSE TO CHRONO?
- B. NOT SHOOTING THROUGH MIDDLE OF TUBE, ESPECIALLY IMPORTANT WITH .177 AT LEGAL LIMIT
- C. NOT EXCLUDING SUNLIGHT FROM SHOOT TUBE. MANDATORY FOR OUTSIDE USE
- D. IF USING BATTERIES CHECK VOLTAGE, BETTER TO USE TWO 9V IN SERIES AS THIS GIVES GREATER RESERVE POWER.

PROVIDING THE SHOOT TUBE WINDOWS ARE UNDAMAGED THE SELF CHECK IS 100% RELIABLE. IF THIS WORKS THEN THE CHRONO IS OK AND IF USED AS PER INSTRUCTIONS WILL GIVE CORRECT READINGS.

IT IS IMPORTANT THE USER UNDERSTANDS THAT THE SHOT MUST PASS THROUGH THE MIDDLE OF THE TUBE AT BOTH FRONT AND BACK. A MUZZLE REST MAKES THIS EASY AND A THIN PIECE OF CARDBOARD FRONT AND BACK WILL SHOW WHERE THE SHOTS GO.

TO PROVE THAT THE SELF CHECK IS TESTING EVERY COMPONENT YOU CAN MAKE IT FAIL BY OBSTRUCTING ANY WINDOW IN THE SHOOT TUBE WITH YOUR FINGERS CLOSE TOGETHER.

USING THE CHRONO WITH CHRONOLOG SOFTWARE

ENSURE THE CHRONO HAS SERIAL INTERFACE FITTED.

FOR RS232 (9pin) CONNECTORS

IF YOUR COMPUTER DOES NOT HAVE A SERIAL (COM) PORT YOU SHOULD PURCHASE A USB TO RS232 CONVERTER. INSTALL AS PER SUPPLIED INSTRUCTIONS. WHEN YOU FIRST RUN THE PROGRAM YOU MUST SET THE CORRECT COM PORT IN SETTINGS. YOU CAN CHECK WHICH PORTS ARE AVAILABLE FROM THE WINDOWS CONTROL PANEL:

WIN XP = SYSTEM - HARDWARE - DEVICE MANAGER - PORTS

WIN7/VISTA = SYSTEM & SECURITY -SYSTEM - DEVICE MANAGER - PORTS

SOME CONVERTERS WILL ALLOW YOU TO SET THE PORT NUMBER BY RIGHT CLICKING ON THE PORT IN THE LIST AND EDITING THE PROPERTIES. PORT NUMBER NEEDS TO BE BETWEEN 1 -8.

IF YOU HAVE PROBLEMS PLEASE DOWNLOAD UPDATED DRIVERS FROM THE MANUFACTURERS WEBSITE OR THROUGH WINDOWS UPDATE.

FOR USB CONNECTORS

FIRST CONNECT TO USB PORT OF PC. WHEN WINDOWS SEARCHES FOR DRIVER YOU CAN SELECT "HAVE DISK" THE DRIVERS ARE SUPPLIED ON THE CHRONOLOG PROGRAM CD IN THEIR OWN FOLDER. ALTERNATIVELY THEY CAN BE DOWNLOADED FROM <http://www.zero-cd.com/trx14xx.php>.

YOU CAN CHECK WHICH PORT NUMBER AS ABOVE. THE DRIVER FOR THIS DEVICE DOES ALLOW YOU TO SET THE REQUIRED PORT NUMBER USING CONTROL PANEL AS ABOVE.