

Fitting and User Instructions for

WILLANS

COMPETITION HARNESS

Please read these instructions before attempting to install or
wear your Willans Harness

**MODEL SUPER SPORT 4 X 3
4 X 4**

FITTING AND USER INSTRUCTIONS for WILLANS COMPETITION HARNESSSES.

Super sport 4 x 3 - 3 attachment point - 4 body point.

Super Sport 4 x 4 - 4 attachment point - 4 body point.

FOR UNIVERSAL FITTING.

Please read these instructions before attempting to install or wear your WILLANS Harness.

EXAMINING - OR MAKING ANCHORAGES.

Both harnesses are suitable for fitting at either left or right hand front seat. The 4 x 4 requires 4 anchor points and the 4 x 3 requires 3. In both cases there is an anchorage required at either side of the seat and one at the rear for a single tail strap or two for the twin tail strap.

Taking the side anchorages first it may be possible to use seat belt threaded points if already in the car and where they are of the commonly found 7/16" U.N.F. threaded type.

To satisfy legal requirements in some regions the lap and diagonal seat belt, if fitted, may need to be left in place. In other cases the position of these anchorages may be unsuitable.

The ideal positions for the side anchorages is directly below the hip joint as shown in Fig. 1. This shows the seat correctly adjusted for the occupant. Wherever possible the locations shown should be used and the distance between seating surface and anchorage point kept to a minimum to prevent submarining. This is very important in harnesses which do not use crutch support straps.

Fig 1 — General Assembly — Supersport

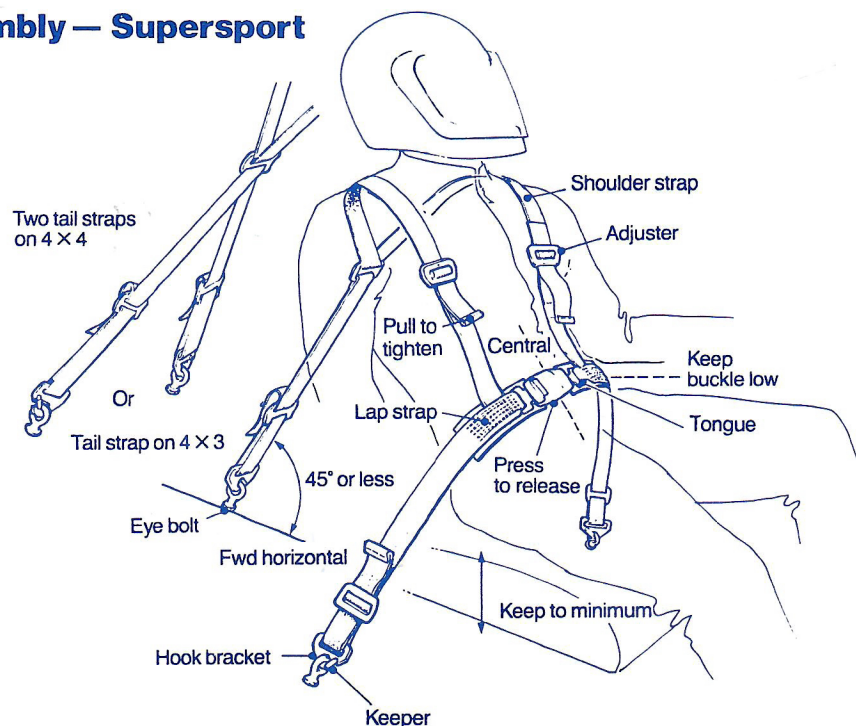
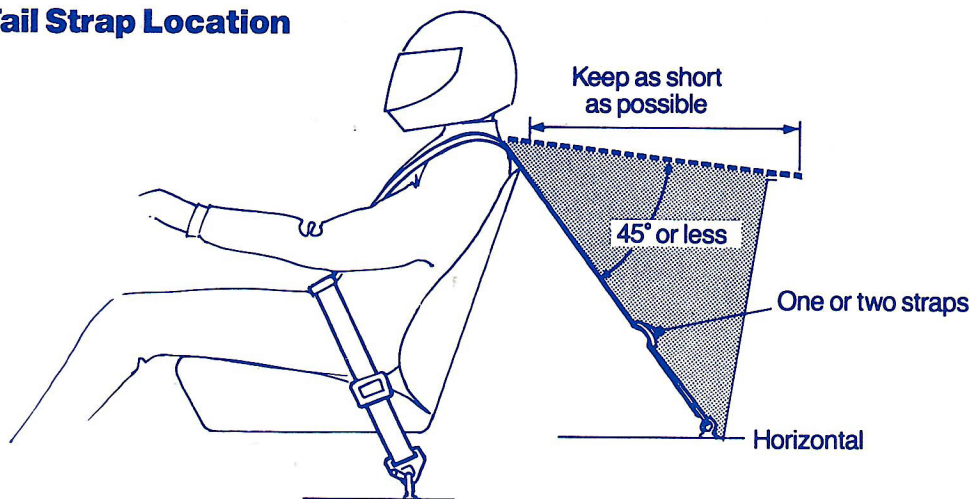


Fig. 2 shows typical locations for the tail strap(s) which in some cars can be fitted to rear seat belt anchorages found below the rear seat cushions. If these anchorages are used they should satisfy locations in Fig. 2 and be centrally positioned behind the front seat to which the harness is fitted.

Where new anchorages need to be provided it will be necessary to drill 29/64" (11.51 mm.) holes in the selected positions. Before drilling - CHECK - that there are no pipes or cables or double skin sections which make the position unsuitable. These anchorages should each be capable of withstanding a load of 3500 lbs. when used with threaded anchor plate (which can be provided - part No. ANC 001).

CHECK - that the car body work can accept these loads by consulting a qualified engineer or the car makers if in any doubt.

Fig 2 – Tail Strap Location



FITTING THE EYE BOLTS.

Positioning the eye bolts correctly - as shown in Figs. 3 and 4 - will ensure that the hook end bracket will not twist off in a “roll-over” situation and that the eye bolt retains its maximum strength when installed. Failure to use packers under the eye bolt head - Fig. 4 - may result in the loss of 50% of the bolts ultimate strength.

This guidance applies both to the use of makers anchorages and new anchorages created by the installer.

Fig 3 – Hook Bracket and Eye Bolt Positioning

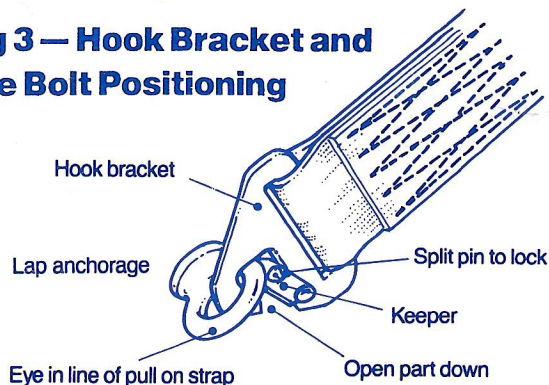
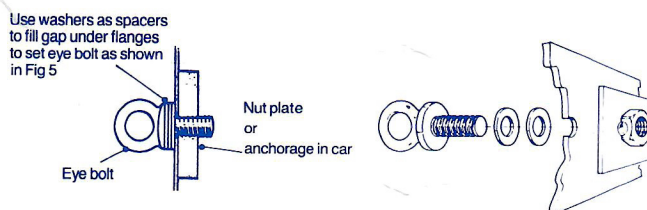


Fig 4 – Eye Bolt Spacing



FITTING THE HARNESS.

When the eye bolts have been fitted connect the lap and tail strap(s) hook end and brackets to the “eyes” with the open part of the hook bracket downwards as in Fig. 3.

At this stage it is essential to use the split locking pins provided to secure the hook bracket keeper in place. Insert in the hole in the keeper and bend a tab over to lock in place. Failure to do this will negate the approval and may lead to a reduction in performance of the harness.

We recommend that the shoulder strap adjusters are positioned on the breast bone as in Fig. 1. To set them in this position it is necessary to adjust tail strap(s) length using the rear adjuster(s). The tail section adjustment is designed to give a wide range of fitted lengths by movement of the slotted adjuster itself along the strap, and also by feeding the return end of webbing through the slots.

To ensure maximum security and to comply with the approval, ensure that the lock-off end is fed into the adjuster and tensioned as shown in Fig. 5.

Fig 5 – Tail Strap Adjustment

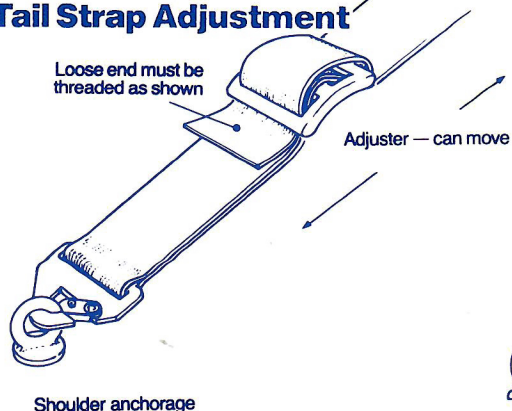
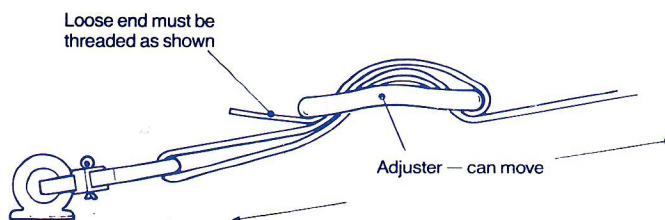


Fig 5 – Tail Strap Adjustment



USING THE HARNESS.

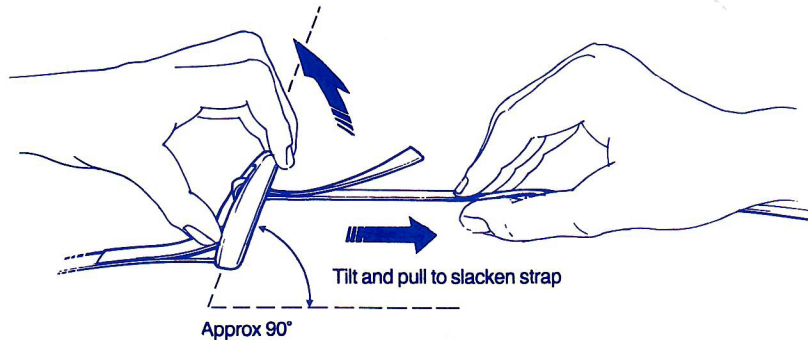
Sit in the seat and extend the webbing straps at all shoulder and lap points. This is done by tilting the adjuster at about 90 degrees to its normal position and pulling the webbing through as shown in Fig. 6.

Connect the two halves of the harness by pushing the tongue into the slot on the buckle - see Fig. 1. Next tighten each lap strap in turn by pulling the loose end of webbing through each adjuster until the buckle and tongue are central and the straps are tight as is comfortably possible. Please remember that any springing in a car seat will compress if the occupant is bumped downwards which will then slacken the lap strap.

Finally, tension the shoulder straps using the loose end of webbing through each adjuster. Do not set these straps so tight that they start to pull the lap straps upwards.

To release the harness press the red release button on the buckle - see Fig. 1.

Fig 6



IMPORTANT - WARNINGS.

1. Inspect your harness every time before use. Check condition of Stitching; Webbing; Adjusters; Hooks; and Release Mechanism.
2. Do not under any circumstances modify this harness.
3. Do not attempt to drill any mounting holes in body work before checking for wiring, pipes, tanks, double skin or unsuitable load bearing body work.
4. Do not use solvents, petrol, bleach or any other solution to clean the parts or webbing of this harness.
5. Ensure that nothing is allowed to chafe or impede the free run of this harness.
6. Replace a harness which has been involved in an accident or where damage to any part is found, on the regular inspection.
7. Do not run a loose harness.
8. Do not contaminate this harness with grease or petrol - **handle with care.**
If in doubt about installation, use or serviceability, of this harness contact WILLANS. Our advice is given willingly and its free.

CLEANING

Use only a mild detergent to clean webbing. All other parts should be kept clear of dirt as they cannot be dismantled for cleaning. If in doubt, return to WILLANS for inspection.

Designed and Manufactured by

STOCKBRIDGE RACING LIMITED,
GROSVENOR GARAGE, STOCKBRIDGE, HAMPSHIRE, ENGLAND

Telephone: (0264) 810712

In order that we are to offer restraint harness which incorporates the most up-to-date design features and legislative requirements, we reserve the right to make changes without notice.