

R.A.C. Recognition No. 291

Valid From 8/1/81



ROYAL AUTOMOBILE CLUB

31 Belgrave Square, London, SW1X 8QH

SAFETY ROLL BAR CERTIFICATE

Manufacturer SAFETY DEVICES Roll bar model No/Designation 3/5R

Car/s for which roll bar is designed:
Make/s BRITISH LEYLAND
Model/s MINI
F.I.A. Homologation No/s
Weight of Car/s lbs. kgs.

ROLL BAR SPECIFICATION

Main tube Dia. 1.5 ins. 38 mm. Brace/s Dia. 1.5 ins. 38 mm.
Thickness .108 ins. 2.6 mm. Thickness .108 ins. 2.6 mm.
Type of welding M. I. G. Weight of total assembly 34 lbs. 15.42 kgs
Material Specification CDS 2 BS980

DECLARATION BY DESIGNER for Roll Bars not complying with F.I.A. design details

I declare that the roll bar described has been *

(a) tested under my personal supervision

(b) shown by my own stress calculations

or (c) shown by stress calculations carried out under my personal supervision

to meet the strength requirements specified in current F.I.A. regulations. In addition, I declare that all details of the roll bar design including joints, mountings and attachments are also in conformity with these regulations.

* Delete as appropriate

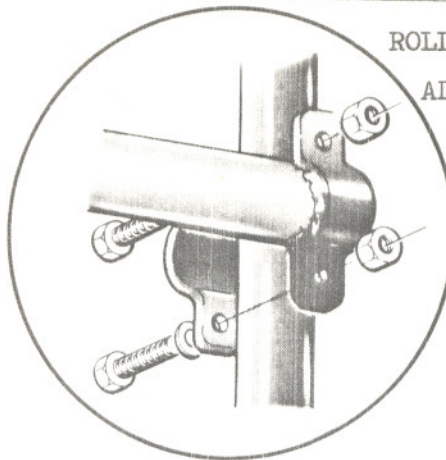
Date 5TH JANUARY 1981 Signature P. F. JOWITT Name P. F. JOWITT
Professional Qualifications C.Eng., F.R.Ae.S., F.I.Prod.E., F.I.Q.A., M.I.Mech.E.

Acceptable signatories must be a Corporate Member of the Royal Aeronautical Society or the Institution of Civil, Mechanical or Structural Engineers.

DECLARATION BY MANUFACTURER

I declare that the roll bar described is in conformity with the F.I.A. regulations as to design.

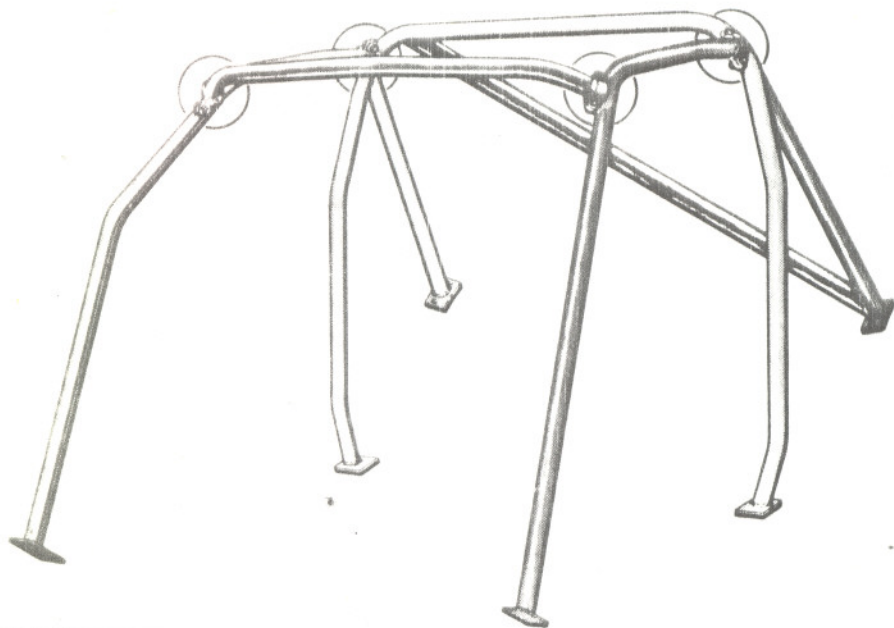
Date 1ST DECEMBER 1980 Signature B. S. WILKINSON Name B. S. WILKINSON
Status TECHNICAL DIRECTOR



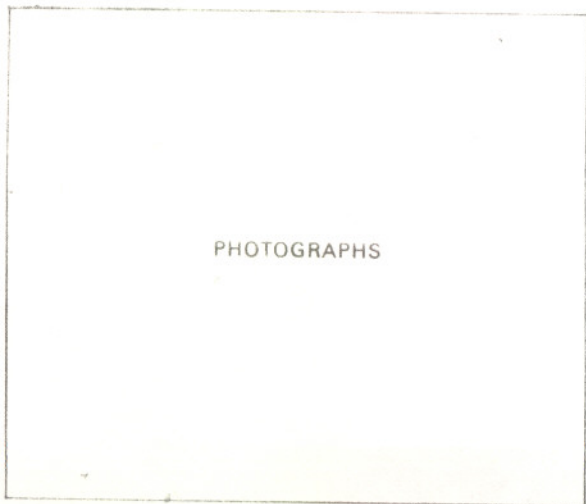
ROLL BAR SPECIFICATION:
ADDITION.

The section forward of the driver position will be manufactured from:-

1.5 ins. 38mm diameter
.084 ins. 2mm thickness
ERW Mild Steel Tube.



Drawing of roll-bar including details of joints and mountings.



(Signed)

D. Howitt

R.A.C. GROUP 1 SCRUTINEER

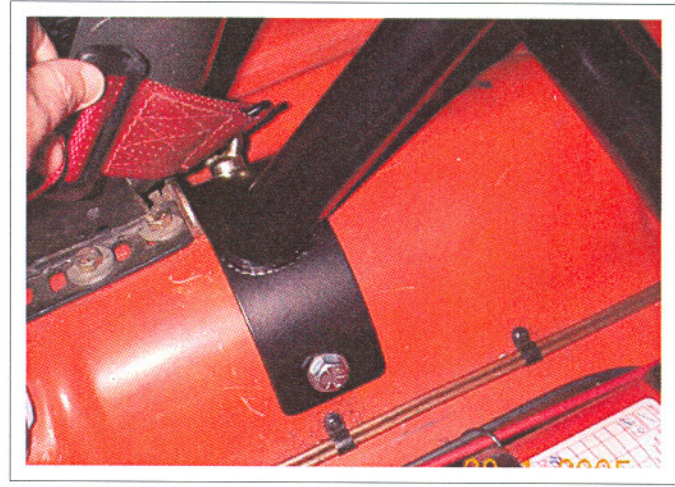
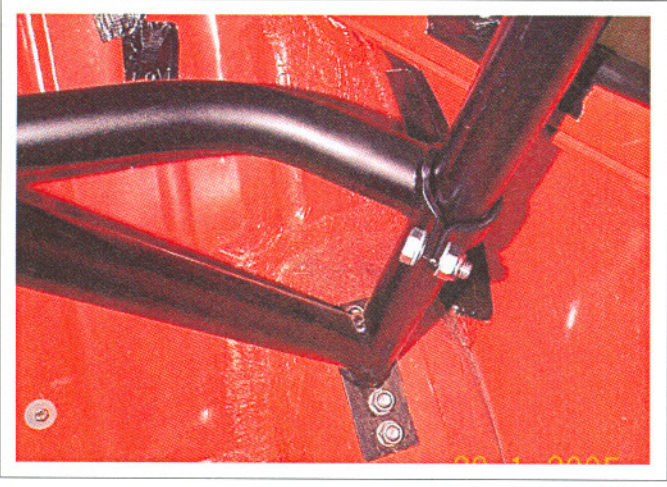
(Countersigned)

R. W. Easton
ROYAL AUTOMOBILE CLUB
SPORTS

MAKE BL Rover MODEL Mini No. N 00

PHOTOS

Harness Bar (and Forestay) installed ~ for use with N 00 Roll Cage only:



SAFETY ROLL BAR CERTIFICATE

Additional Information Page

Reason for amendment

- 1) *Transverse (Harness) Bar (optional) to secure / wrap Harness Shoulder straps.*
- 2) *Transverse (Harness) Bar attached to Roll Cage Backstay members with Forestay attached to vehicle body shell central transmission tunnel.*
- 3) *Regulation adherence:*
 - ~ *MSA Book 2004, Section Q: Para. 2.1 & Notes.*
 - ~ *FIA 2004, Annexe J / Appendix J – Art. 253, Article 6: Para. 6.2.*
- 4) *Material:*
 - ~ *Tube: 38.1mm dia. X 2.64mm Cold Drawn Seamless Unalloyed Carbon Steel.*
 - ~ *Clamp Brkts: 5mm thick.*
 - ~ *Tunnel Brkt: 3mm thick.*



Date:

MSA Signature and Stamp:


MOTOR SPORTS ASSOCIATION
UNITED KINGDOM
J. SYMES BSc CEng MIMechE
10-03-05.