



## Multipoint DIY Weld-In Roll Cage Kit

### Installation & Assembly Instructions

#### Important Notes

This roll cage is designed for professional installation. Welding must be completed by a qualified fabricator familiar with Motorsport UK (MSUK) and FIA roll cage safety standards.

#### Safety Notice:

- Never weld near fuel lines, battery, or interior materials.
- Ensure fire safety equipment is accessible.
- Disconnect the battery before starting work.
- Always wear appropriate PPE.

#### Tools & Equipment Required

- MIG or TIG welding setup
- Angle grinder and flap discs
- Ratchet straps
- Measuring tape and level
- Drill and hole saw (for floor drop access)
- Jack and axle stands
- PPE (helmet, gloves, goggles, fireproof clothing)

#### Step 1 – Preparation

- 1-Remove interior (seats, carpet, trims).
- 2-Clean and bare the metal around mounting points.
- 3-Check all labelled cage components.
- 4-Ensure clearance to drop the cage for roof welds.

#### Step 2 – Base Mount Positioning

Begin by tacking the centre floor mounts in place. The positioning of the Main Roll Bar (MRB) and Lateral A-Pillar Bars (LAB/RAB) determines the front mount locations. Do not fully weld yet.

#### Step 3 – Main Roll Bar & Front Cell Assembly

- 1-Position the MRB and tack it to the centre mounts.
- 2-Offer up LAB/RAB and tack the front mounts.
- 3-Assemble the outer front cell including Roof Bar (RFB) and roof diagonals (RD1/2/3).
- 4-Weld the cell fully (not to car).
- 5-Drop the cage down through the floor holes or by removing mounts to weld top joints.

#### Step 4 – Door Bars

- 1-Refit cage and mounts.
- 2-Install LUD/RUD/LLD/RLD door bars.
- 3-Tack and check clearance.

- 4-Use ratchet straps to pull cage inward for access—avoid roof skin distortion.
- 5-Fully weld door bar joints.

**Step 5 – Rear Section Assembly**

- 1-Fit backstays (LB/RB) and tack to the hoop.
- 2-Add rear diagonals (D1/2/3) and cross braces (CD1/2/3).
- 3-Fully weld rear joints once fitment is confirmed.

**Step 6 – Finishing & Gusseting**

Fit all gussets and reinforcements where the cage touches the shell. Clean, inspect, and prep for paint or powder coating once welding is complete.

**Step 7 – Final Checks**

- Ensure mounts are fully welded.
- No sharp edges.
- All joints are complete.
- Check clearance around trims.

**Component Key**

MRB	Main Roll Bar
LAB / RAB	Left / Right A-Pillar Bar
RFB	Roof Bar
RD1/2/3	Roof Diagonal Braces
LUD / RUD / LLD / RLD	Upper / Lower Door Bars
LAPS / RAPS	A-Pillar Supports
LLAPS / RLAPS	Lower A-Pillar Supports
LBP / RBP	B-Pillar Diagonals
LB / RB	Backstays
D1/2/3	Rear Diagonals
CD1/2/3	Centre Cross Braces
LH / RH	Harness Bars
LRT / RRT	Rear Triangulation
LFT / RFT	Front Triangulation
LFTB / RFTB	Triangulation Diagonal Braces

**JP Cages Ltd**