

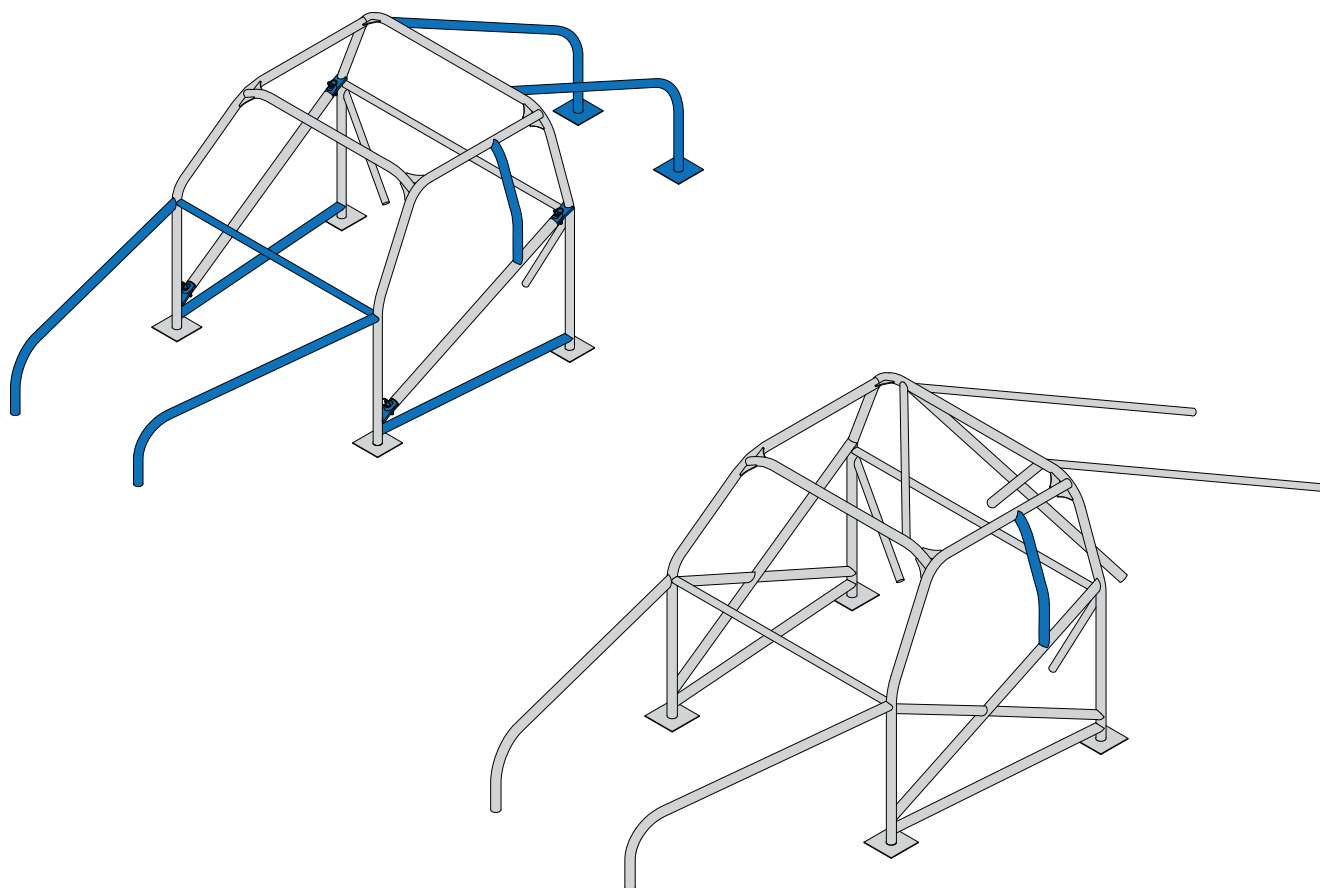
READ ALL INSTRUCTIONS COMPLETELY AND THOROUGHLY UNDERSTAND THEM BEFORE DOING ANYTHING.
CALL CHASSISWORKS TECH SUPPORT (916) 388-0288 IF YOU NEED ASSISTANCE.

INSTALLATION GUIDE



4406

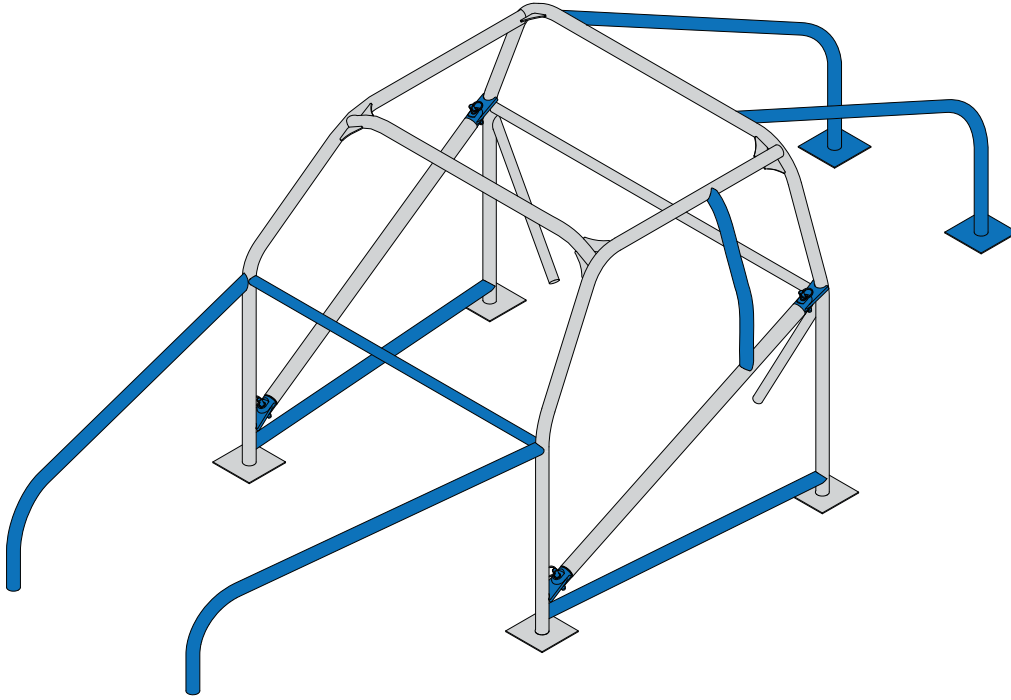
4130 ROLL CAGE 1-5/8" TUBE BOX



Description: Instructions for 1-5/8" diameter, 8-, 10-, 12-, or 14-point roll cage.

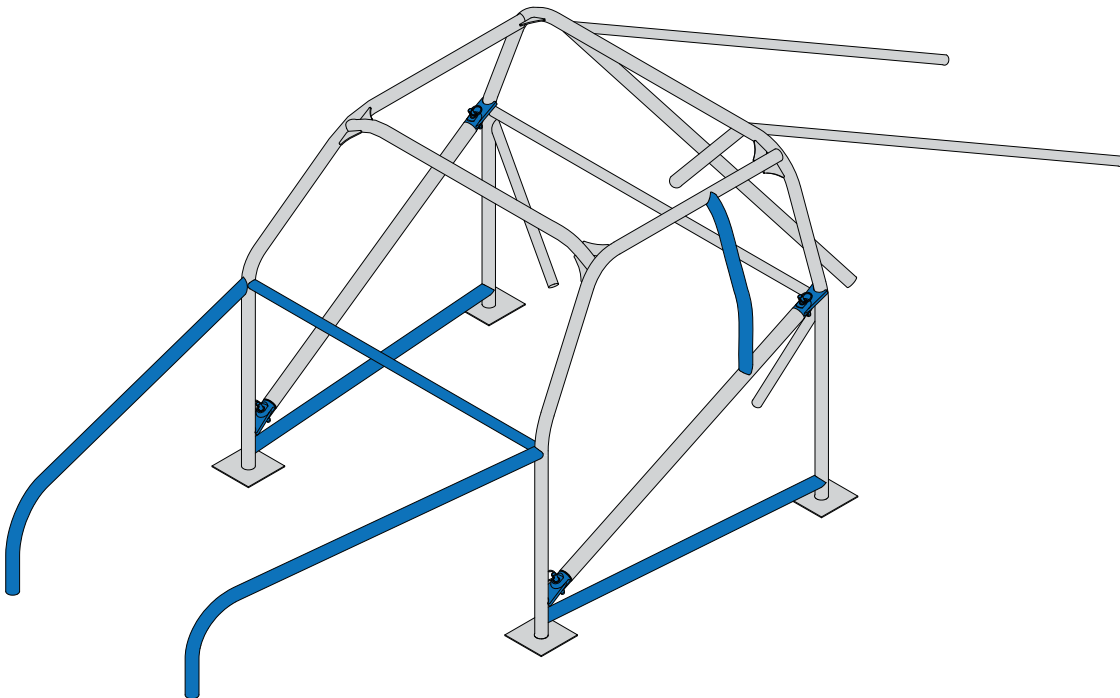
8-POINT ROLL CAGE

WITH OPTIONAL FRONT STRUTS, ROCKER, DASH, AND HELMET BARS

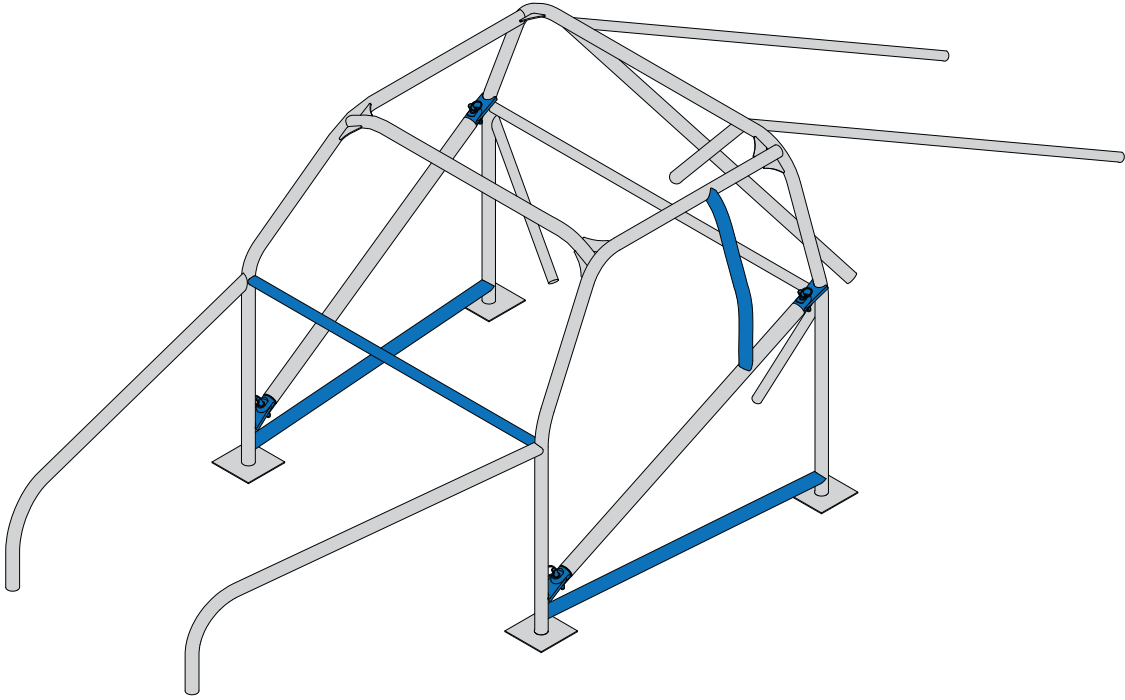


10-POINT ROLL CAGE

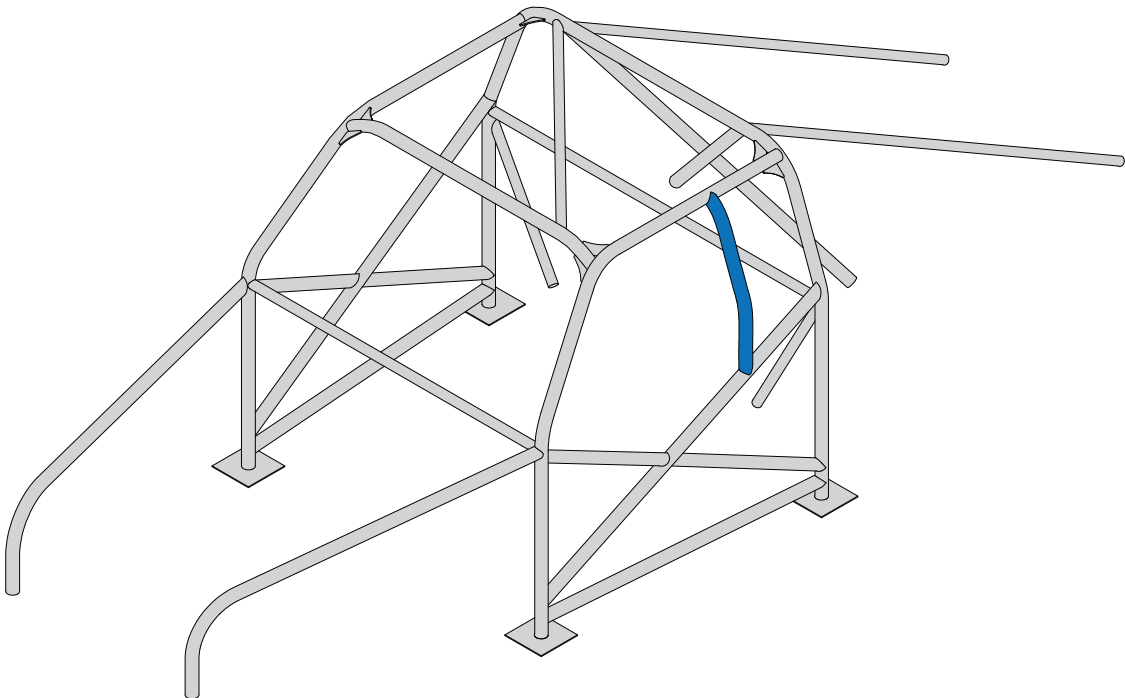
WITH OPTIONAL FRONT STRUTS, ROCKER, DASH, AND HELMET BARS



12-POINT ROLL CAGE
WITH OPTIONAL ROCKER, DASH, AND HELMET BARS



14-POINT ROLL CAGE
WITH OPTIONAL HELMET BAR



PARTS LIST

Straight Tube Box Contents

QTY	PART	DESCRIPTION
2	1032	Rear struts, 90-degree notched, 1-5/8 x .083 x 60"
1	1033	Passenger side bar, angle notched, 1-5/8 x .065 x 60"
1	1034	Driver side bar, angle notched, 1-5/8 x .065 x 60"
1	2006	Floor plate tree, 1/8 x 6 x 24" (contains four)
1	2168	Roll cage gusset tree (contains eight)
1	A20.058-060.000	Subframe struts, 1-1/4 x .058 x 60" (makes two)
1	A20-083-060.000	Back brace, 1-1/4 x .083 x 60"

Additional Components (not in box)

ITEM	USED IN
Main hoop	8-, 10-, 12-, and 14-point roll cage
Cage Sides	8-, 10-, 12-, and 14-point roll cage
Windshield Brace	8-, 10-, 12-, and 14-point roll cage
Forward Struts	12- and 14-point roll cage
Long Rear Struts	10-, 12-, and 14-point roll cage
Rocker Support Tube	14-point roll cage
Additional Strength Kit	14-point roll cage

Optional Components

Option Category	Part Numbers	Description
Window Nets	6307	Window Net Mount Only
Rocker Support Tubes	7025	Roll Cage Rocker Support Bar (driver side), 1-5/8 x .083" 4130
	7025 (Qty 2)	Roll Cage Rocker Support Bar (both sides), 1-5/8 x .083" 4130
Dash Tubes	7013	Dashboard tube, 1-1/4 x .058" 4130
	7018	Additional strength tube, 1-1/4 x .058 x 72" 4130
Helmet Bar	7027	Helmet bar, 1-5/8 x .083" 4130
Forward Struts	7019	Forward struts, 1-5/8 x .065" 4130
Funny Car Cage	7227, A26.083-060.000	Funny car cage kit (driver side), 1-5/8 x .083" 4130
	7227, 7239, A26.083-060.000	Funny car cage kit (both sides), 1-5/8 x .083" 4130
Swingout Clevis	7038	1-5/8 x .083" Swingout Clevis Set

CLASS LEGALITY

Verify that all roll cage tubes meet the minimum size requirements of your sanctioning body and that the cage is correctly installed for class legality. Chassisworks will replace any tube that is undersized, provided the tube has not been installed. You must return the undersized tube to Chassisworks for replacement. (Freight and installation is not included.)

INSTRUCTIONS

Read all instructions and make sure you understand them before starting.

1. Remove all interior upholstery, seats, carpets, and front and rear kick panels. It is not necessary to remove the headliner or dashboard.
2. Cut the 6 x 24-inch flat plate into four pieces 6 inches long to be the floor plates. Trial fit the main hoop to locate its floor plates. It should be even with the forward edge of the B-post. If it seems too long, do not cut it yet. Determine where the floor plates go. The main hoop should be centered on the floor plate. In some cases, the main hoop fits on top of the rocker panel and in others; the main hoop sits on the floor beside the rocker panels. If your car has a full frame like early Chevys, Chevelles or Corvettes, it should be attached directly to the frame.
NOTE: Because the factory frame is very narrow on 55-57 Chevys, the roll cage kits include 3x2" box tube to make out-riggers for the main hoop to sit on. To bend the floor plates, clamp them in a vise and use a large hammer. The better you follow the contour of the floor, the easier the floor plates will be to weld. Reinstall the main hoop and if it is too long, cut only small amounts at a time to avoid cutting it too short. Tack weld the main hoop in place so it is 90-degrees to the rocker panel.
3. **For All Roll Cages** - Use the cage side to determine the exact position of the forward floor plate. It attaches to the floor by the A pillar. If the car has a full frame in that area, then attach the cage side to the frame. Form the floor plate and tack it in place. Fit the cage side in place. Position the rear end for maximum head clearance. Do not tack in place yet. Mark the dashboard where the forward strut will come through. It is easier to fit the forward strut while the cage side can still be removed.
4. **For 12- and 14-point Cages Only** - Fit the forward struts. Tack them in place with the cage side. The forward strut ties to the frame forward of the suspension, it can also be welded to the inner fender panel. They can pass either under or through the dashboard depending on the space available. The rear end ties to the cage side as high as possible.
5. **For All Roll Cages** - After fitting the forward struts and cage sides in place, install the windshield brace. Tack it between the cage sides as far forward as possible without impairing vision through the windshield. With the windshield brace still tacked to the cage sides, push the main hoop back out of the way and lower the cage sides down from the roof. This will lower the windshield brace and make it easy to weld. Install a roll cage gusset on each end of the windshield brace where it attaches to the cage side. After welding the windshield brace, reinstall the forward struts, cage sides, and main hoop and tack them all together. Weld the two remaining cage gussets to the joint formed by the cage side and main hoop. If you have trouble with the fits or the welds, it is recommended that you install an additional gusset on the cage side to the main hoop and windshield brace.
6. Tack weld the rear struts in place. They run from the subframe area directly in front of the rear shock mount straight up to the main hoop. They should be parallel to each other. The rear struts can be welded directly onto the subframe. One end of the rear strut is already fish mouthed and it will fit the main hoop without additional grinding. The other end will have to be cut to fit the subframe. The 1-5/8 diameter main hoop rear struts can also be fit to form an "X" style rear brace. If this is done, then the 1-1/4-diameter long rear strut (#7017) must also be installed.

To weld by the headliner or window without burning them, you need a piece of wet cardboard and a piece of aluminum sheet. Duct tape a piece of cardboard to the aluminum sheet about 12-inches square. Soak the cardboard with water. Slide the sheet between the roll bar and headliner with the wet side against the part you want to protect while welding.

7. Tack welds the back brace in place. The back brace is the 1-1/4 x .083" diameter tube. It runs horizontal to the floor between the legs of the main hoop. It should be centered in the bends even with the doorsill. On Corvettes only, the straight back brace should be discarded. A large "U" shaped back brace, necessary to clear the seats, is provided with these kits. Install it in the same location.
8. Fit and tack the 1-1/4 x .065" diameter subframe struts in place. They run from the main hoop and back brace joint, down to the subframe or a crossmember. The lower end should be attached as close as possible to the front ladder bar or 4-link mount.
9. Next, install the sidebars. They should be as low as possible in the front to facilitate entry and exit from the car. They must be high enough in the rear to pass by the driver between his shoulder and elbow when sitting in the car. Again, one end of the tube is partially fish mouthed to fit. The 14-point roll cages also include a rocker tube support (#7025). It runs from the cage side to the main hoop just above the doorsill on the driver's side. This tube is mandatory if the stock floor is removed. The rocker support tube may be optionally purchased for any cage kit.
10. The 14-point cage has additional 1-1/4 x .065" diameter support tubes for cage top triangulator, dash support and door x-brace. Refer to the drawing for their location.
11. An optional helmet bar can be purchased separately (part #7027). It installs between the driver's cage side bar, forward of the main hoop. See the assembly drawing for its location. Install the helmet bar as far forward as possible without restricting entry to the driver's seat. At a minimum, the helmet bar should be forward of the driver's ear.
12. Double check all tube locations for symmetry and position, then final weld everything in place. Reinstall the interior. Some parts may have to be trimmed. This roll cage kit must be TIG/TAG welded (Heliarc).

NOTES:

WARRANTY NOTICE:

There are NO WARRANTIES, either expressed or implied. Neither the seller nor manufacturer will be liable for any loss, damage or injury, direct or indirect, arising from the use or inability to determine the appropriate use of any products. Before any attempt at installation, all drawings and/or instruction sheets should be completely reviewed to determine the suitability of the product for its intended use. In this connection, the user assumes all responsibility and risk. We reserve the right to change specification without notice. Further, Chris Alston's Chassisworks, Inc., makes **NO GUARANTEE** in reference to any specific class legality of any component. **ALL PRODUCTS ARE INTENDED FOR RACING AND OFF-ROAD USE AND MAY NOT BE LEGALLY USED ON THE HIGHWAY.** The products offered for sale are true race-car components and, in all cases, require some fabrication skill. **NO PRODUCT OR SERVICE IS DESIGNED OR INTENDED TO PREVENT INJURY OR DEATH.**

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