

**WARNING:** Bikes or rack falling in road can cause serious accidents resulting in bodily injury—do not use rack on any vehicle on which it can not be properly mounted as described in this instruction sheet.

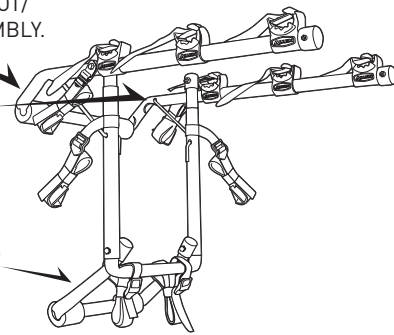
- Top hooks must be completely hooked over solid metal edges at top/ front of trunk lid or rear door—never hook to rain gutters, roof racks, vertical glass, rubber or plastic moldings.
- Mount rack only with bottom feet on a rigid surface of car (never on glass), and with bottom foot assembly completely extended. Never use rack on trailers or on the front of vehicles.
- Never carry more than 3 bicycles (**MAX CAPACITY: 100 LB**) - no tandems, mopeds, or recumbents. Car tail lights must remain visible. Bikes must be securely tied to rack. Use bike tie-downs, or additional straps if necessary.
- Drive conservatively, especially over bumps. Never use off-road.
- Do not use if any part of the rack is damaged, worn, or missing. Contact R. A. Allen Co., Inc. for replacement parts.

**CAUTION:** Use Allen 103DN only in accordance with local motor vehicle and traffic regulations.

- To avoid damage to rear door or trunk, do not open trunk or rear door when hooks or rack are in place.
- Install rack and load bicycles only at a safe distance away from moving traffic.
- Only rubber feet and hooks of rack should come into contact with vehicle.
- Make sure that all of rack and bicycles are kept at a safe distance from road and hot exhaust.
- Remove rack from car when not in use

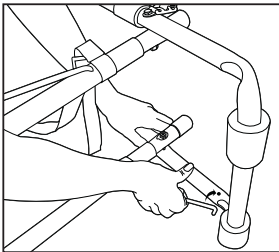
## A. SETTING UP RACK:

1. FOLD OUT TOP FOOT/ CARRYARM ASSEMBLY.
2. INSERT PINS AT ENDS OF WIRE STRUTS INTO HOLES IN TOP FOOT ASSEMBLY
3. COMPLETELY FOLD OUT BOTTOM FOOT ASSEMBLY.



## A.2 TO SAFELY INSERT SET UP PINS:

1. UNFOLD RACK AND LAY IT ON ITS SIDE WITH CARRY ARMS PERPENDICULAR TO MIDDLE SECTION
2. PULL UP ON SET UP PIN TO INSTALL INTO HOLE ON CARRY ARM (**NOTE: USE CAUTION NOT TO PINCH YOUR FINGERS**)
3. FLIP RACK OVER AND REPEAT ON OTHER SIDE.



## B. BEFORE INSTALLING RACK:

1. MAKE SURE THAT CONTACT SURFACES BETWEEN CAR AND RUBBER FEET ARE THOROUGHLY CLEAN AND FREE OF DIRT, AND THAT ALL RUBBER FEET ARE PROPERLY SPACED.



2. MAKE SURE THAT TOP BUCKLES ARE THREADED AS SHOWN ON LEFT, NOT AS ON RIGHT.



3. INSPECT ALL STRAPS TO MAKE SURE THAT THEY ARE NOT WORN OR DAMAGED IN ANY WAY.

## C. INSTALLING RACK ON VEHICLE:

1. TOP HOOKS MUST BE COMPLETELY HOOKED OVER METAL EDGES AT TOP OF TRUNK, REAR DOOR, OR HATCHBACK. NEVER HOOK TO RAIN GUTTERS, ROOF RACKS, VERTICAL GLASS OR PLASTIC MOLDINGS. OPEN TRUNK/ HATCH SLIGHTLY FOR EASIEST ATTACHMENT OF HOOKS. **BE CAREFUL THAT HOOKS DO NOT BIND WHEN TRUNK/ HATCH IS OPENED. BINDING HOOKS WILL DAMAGE VEHICLE.**

SECURING TOP HOOKS ON VEHICLES WITHOUT ADEQUATE CLEARANCE AT THE TOP EDGE OF REAR TRUNK/ HATCH: UNTHREAD TOP STRAPS FROM METAL BUCKLES AND OPEN REAR TRUNK/ HATCH. PLACE TOP HOOKS INSIDE OF VEHICLE (JUST INSIDE OF TOP EDGE OF REAR TRUNK/ HATCH). **CAREFULLY** CLOSE REAR TRUNK/ HATCH ON TOP STRAPS, MAKING CERTAIN HOOKS DO NOT BIND BETWEEN FRAME AND REAR DOOR. **IMPORTANT:** WITH REAR DOOR CLOSED, PULL TOP STRAPS TO BRING HOOKS TIGHT AGAINST INSIDE OF VEHICLE. RE-THREAD TOP STRAPS AS SHOWN IN **SECTION B**. MOUNT RACK TO VEHICLE.

2. SET LENGTH OF TOP STRAPS TO POSITION RACK WITH ITS CARRY ARMS INCLINED SLIGHTLY UPWARDS, AND HIGH ENOUGH TO KEEP BIKES AWAY FROM ROAD AND EXHAUST.
3. ONCE THE LENGTH OF THE TOP STRAPS ARE SET, THE BOTTOM FOOT ASSEMBLY SHOULD BE HELD AGAINST THE VEHICLE IN ITS COMPLETELY OPEN POSITION. IT IS IMPORTANT THAT THE BOTTOM GRAY RUBBER PADS ARE INSTALLED ON THE VEHICLE IN A LOCATION WHERE THERE IS PROPER SUPPORT. THE BOTTOM FEET SHOULD NEVER BE INSTALLED ON GLASS.
4. MAKE SURE THAT THE BOTTOM STRAPS ARE PROPERLY THREADED THROUGH PLASTIC BUCKLES.
5. COMPLETELY HOOK BOTTOM HOOKS TO A METAL EDGE BELOW BUMPER, OR AT THE BOTTOM OF THE TRUNK/ REAR DOOR. IF THERE IS NO METAL EDGE BELOW BUMPER, SEE ALTERNATE METHOD FOR BOTTOM HOOK ATTACHMENT ON THE NEXT PAGE.

6. COMPLETELY TIGHTEN BOTTOM STRAPS BY PULLING ON FREE END OF STRAPS UNTIL ELASTIC PORTION OF STRAPS ARE COMPLETELY STRETCHED.
7. ONCE THE BOTTOM STRAP IS IN PLACE, YOU SHOULD INSTALL THE LEFT AND RIGHT SIDE STRAPS. FIRST IT IS IMPORTANT TO MAKE SURE THAT YOU USE THE CORRECT STRAPS FOR THIS - THE SIDE STRAPS ARE THE STRAPS WITH THE SMALL METAL HOOKS THAT ARE LABELED "SIDE STRAPS". THE HOOKS ON THESE STRAPS SHOULD BE ATTACHED TO THE LEFT AND RIGHT SIDE OF THE TRUNK/ REAR DOOR. ONCE THE HOOKS ARE IN PLACE, COMPLETELY TIGHTEN THE STRAPS BY PULLING ON THE FREE END OF THE STRAPS.

