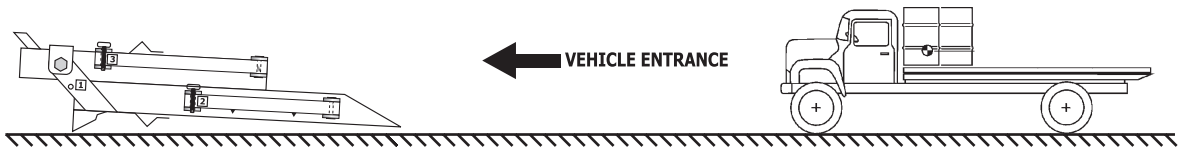
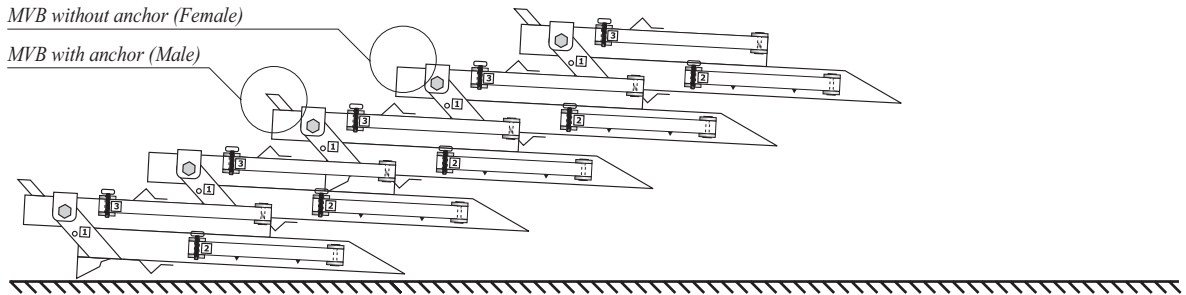


# MVB - Modular Vehicle Barrier - Assembly Instructions

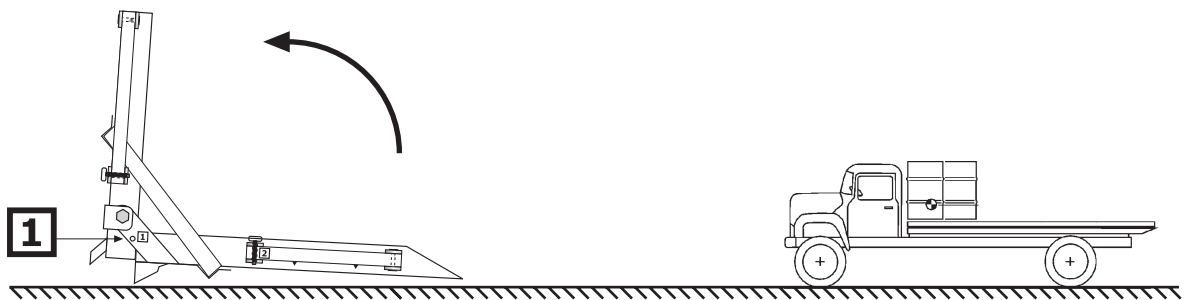
## A. Create a Single Row:



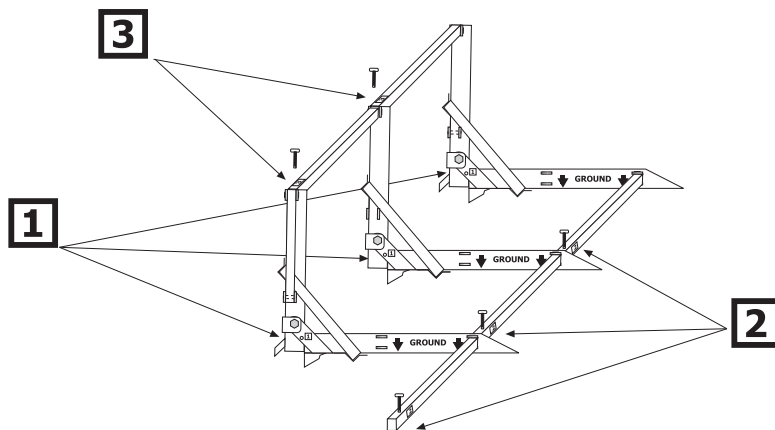
A.1 Place one unit on the ground, as shown in the drawing, the "VEHICLE ENTRANCE" sticker facing into the threat direction.  
Note: Connect MVB section with anchor (Male) to MVB section without anchor (Female)



A.2 Place several units beside the barrier unit (~28" from each), until the lane is covered.



A.3 Take out the central pin, marked as - **1**  
Raise the upper section into a vertical position and secure the pin in that position.



A.4 Take out the pin marked as - **2**  
Open the horizontal connecting section into the next barrier unit and secure the pin in that position.

A.5 Take out the pin marked as - **3**  
Open the vertical connecting section into the next barrier unit and secure the pin in that position.

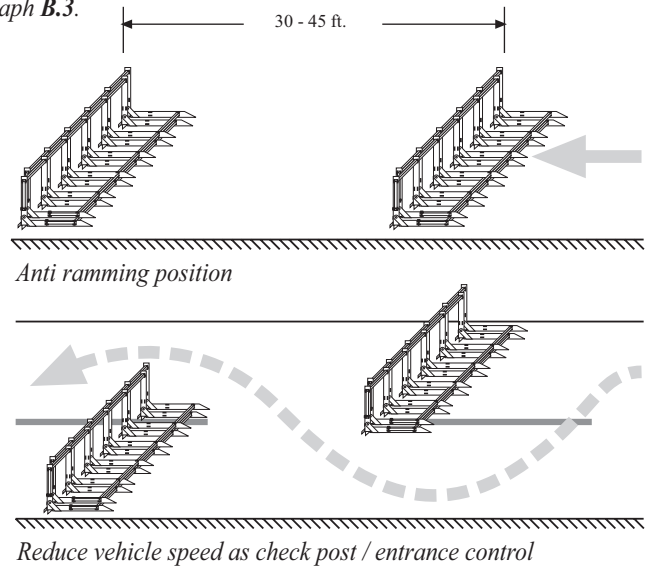
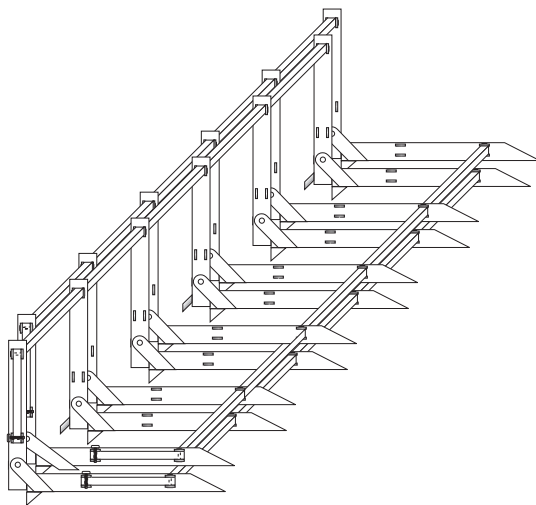
In this situation two units are assembled completely.

A.6 Continue to assemble the barrier units as you did in paragraph A.3.

# MVB - Modular Vehicle Barrier - Assembly Instructions

## B. Create an Integrated (Double) Row:

- B.1 Assemble single row barrier as you did in paragraph A.
- B.2 Place MVB units between and behind each two assembled units in the single row.
- B.3 Take out the central pin, marked as - **1**  
Raise the upper section into a vertical position and secure the pin in that position.
- B.4 Insert the MVB unit between and behind each two assembled units in the single row.
- B.5 Take out the pin marked as - **2**  
Open the horizontal connecting section into the next barrier unit and secure the pin in that position.
- B.6 Take out the pin marked as - **3**  
Open the vertical connecting section into the next barrier unit and secure the pin in that position.
- B.7 Continue to assemble the barrier units as you did in paragraph B.3.



## MVB - Modular Vehicle Barrier - General Recommendations:

1. **Locating the proper location for the barrier -**
  - 1.1 It is preferable to locate the blocking area where vehicles are forced to reduce speed (road curve etc.).
  - 1.2 You must eliminate the possibility to bypass the barrier using the roadside (use boulders, trees, etc).
  - 1.3 Locate the barrier and the "stop" sign in a location where the driver will be able to stop in time.
2. **Preparing the barrier -**
  - 2.1 Prepare the MVB units -distribute the MVB (one unit per 2 foot opening at least) according to the list in paragraph 3.
  - 2.2 Assemble the barrier units using all security pins (both main and secondary).
  - 2.3 Make sure the MVB units are placed vertical to the road.
  - 2.4 Make sure the MVB units are placed with the diagonal edge facing the direction the vehicle will be coming from.
  - 2.5 Lay warning signals (day/night) at least 300ft in advance.
3. **Assembling directions according to required performance -**  
Note - speed estimates are done according to the ability of the vehicle to gain maximum speed prior to reaching the barrier.

Vehicle Type	Speed	Barrier Placement	90	75	60	45	30	20	0	Dimensions (ft.)
A Small car (3,000lbs)	40mph	One single line, 2 MVB's per 3ft road opening. (The second line is for backup only)								Vehicle Entrance
B Small van (4,000lbs)	55mph	Two lines (20ft from each other). First line integrated (3 MVB's per 3ft), the second line single.								Vehicle Entrance
C Medium vehicle (8000lbs)	60mph	Two lines (20-30ft from each other). First line integrated, the second line single.								Vehicle Entrance
D Heavy vehicle (20,000lbs)	30mph	Two integrated lines, 45ft from each other (3 MVB's per 3ft road opening)								Vehicle Entrance
E Heavy vehicle (20,000lbs)	40mph	Three lines (45ft from each other). The first and the second lines - integrated, the third line - single.								Vehicle Entrance
F Heavy vehicle (20,000lbs)	55mph	Three lines of integrated lines (45-60ft from each other)								Vehicle Entrance