

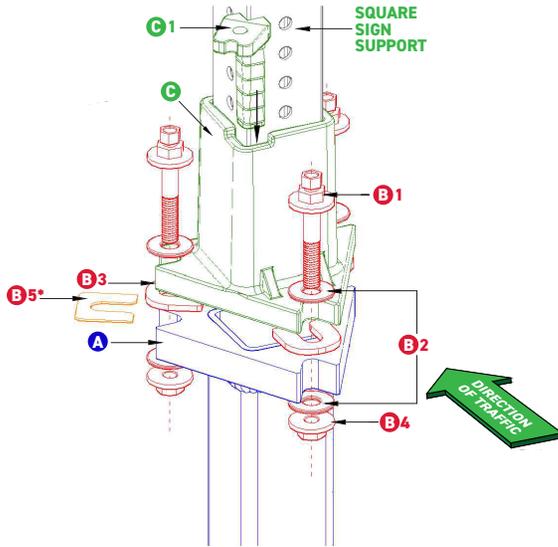


MODEL 280U-SQ1

Omni-directional slip base (combination anchor with lower slip plate)
Receives square sign support



MASH-16 Compliant for Intersecting and Mainline Roadways



- Up to a maximum of three omni-directional slip bases with Redi-Torque Model 280 match plate hardware may be installed within a 7' span on mainline roadway.
- For additional wind load capability, a post of the next size smaller may be inserted into the square sign support.

PARTS LIST

A: Unibase - Lower Slip Plate

ITEM	QTY.	DESCRIPTION
A	1	Combination anchor/lower slip plate

B. Redi-Torque Match Plate Hardware

ITEM	QTY.	DESCRIPTION
B 1	3	5/8" 13 x 3" gr. 8 Redi-Torque bolt
B 2	6	3/4" U.S.S. flat washer
B 3	3	3/16" thick, Teflon-coated slip washer
B 4	3	5/8" 13 gr. 8 large-diameter flange nut
B 5*	0	3/16" thick leveling shim

* May not be necessary for every installation.

C: Upper Slip Plate Sub-Assembly

ITEM	QTY.	DESCRIPTION
C	1	Top receiver for square sign support
C 1	1	Square sign support locking wedge



STEP A

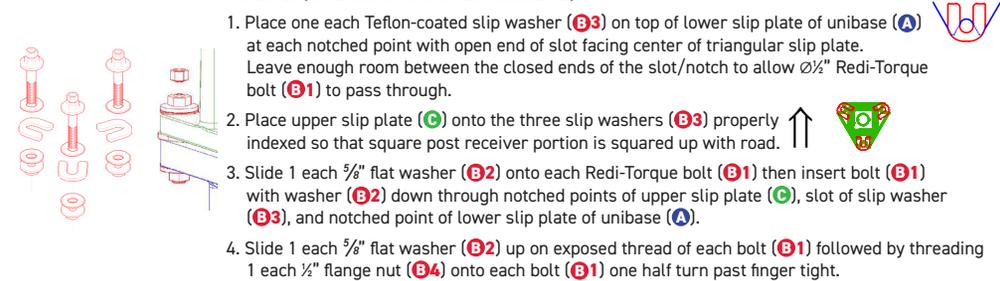
- Install appropriate unibase (A) plumb and squared up with road, with point of triangular slip plate facing oncoming traffic.
- Depth of embedment to leave 2 1/2" (+1 1/2" / -1/2") from grade to top of lower slip plate of unibase (A).

NOTE: For soil or concrete installation options, see details on the left.

NOTE: If installing in concrete, auger the footing hole shallow enough to be able to drive 3-4 inches of unibase (A) into the bottom of the hole. This will help stabilize the unit as concrete is being poured and cured while also allowing for proper drainage.

NOTE: On multi-leg installations, be sure that all unibases are squared and lined up with each other.

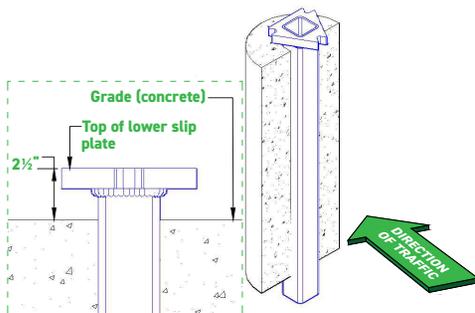
STEP B (Start here for reinstallation)



- Place one each Teflon-coated slip washer (B3) on top of lower slip plate of unibase (A) at each notched point with open end of slot facing center of triangular slip plate. Leave enough room between the closed ends of the slot/notch to allow 5/8" Redi-Torque bolt (B1) to pass through.
- Place upper slip plate (C) onto the three slip washers (B3) properly indexed so that square post receiver portion is squared up with road.
- Slide 1 each 3/4" flat washer (B2) onto each Redi-Torque bolt (B1) then insert bolt (B1) with washer (B2) down through notched points of upper slip plate (C), slot of slip washer (B3), and notched point of lower slip plate of unibase (A).
- Slide 1 each 5/8" flat washer (B2) up on exposed thread of each bolt (B1) followed by threading 1 each 5/8" flange nut (B4) onto each bolt (B1) one half turn past finger tight.

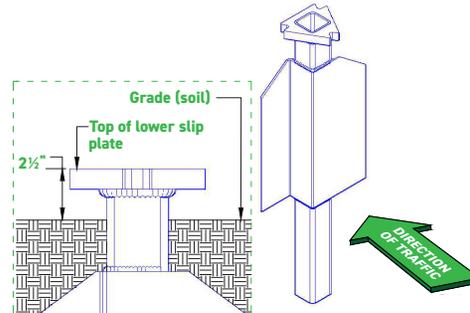
NOTE: Tighten bolts using ONLY the 3/4" larger hex head to ensure the plates are as parallel as possible. The smaller hex head will be used in the next step.

CONCRETE INSTALLATION DETAIL



NOTE: Recommended footing size is a minimum of 12" in diameter and 30" deep.

DIRECT-DRIVEN SOIL INSTALLATION DETAIL



NOTE: Install with the widest bearing surface of the stabilizing wing parallel with the face of the sign.

STEP C

- Insert square sign support into upper slip plate (C) receiver until support bottoms out.
- With a handheld hammer, drive the square sign support locking wedge (C1) into the upper slip plate (C) receiver at the pre-determined corner, marked by a 1/4" notch. (The locking wedge does not need to be driven flush with the top of upper slip plate receiver.)

***SHIMMING:** Before moving on to Step 3, check the plumb of the sign support(s). If necessary, 3/16" thick leveling shim(s) (B5) may be used at the appropriate point(s) between slip plates. To replumb, loosen bolt (B1) using the 3/4" larger hex head at desired point enough to lean the upper slip plate (C) back and slide leveling shim (B5) into place. Shim(s) should be placed under Teflon-coated slip washer. Maximum of 2 each leveling shims per notched point.

- After locking wedge (C1) is securely in place, use the 3/4" larger hex head to loosen each bolt (B1) and nut (B4) one at a time, then retighten each bolt (B1) using the 3/8" (smaller) hex until the 3/8" hex head twists off from the 3/4" hex head. This will set the proper torque level.

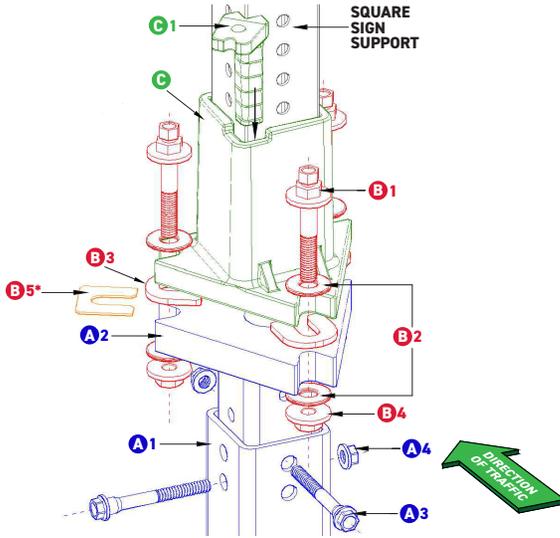


MODEL 280SB-SQ1

Omni-directional slip base (stem base with separate heavy-duty anchor)
Receives square sign support



MASH-16 Compliant for Intersecting and Mainline Roadways



- Up to a maximum of three omni-directional slip bases with Redi-Torque Model 280 match plate hardware may be installed within a 7' span.
- For additional wind load capability, a post of the next size smaller may be inserted into the square sign support.

PARTS LIST

A1: Heavy-Duty Anchor

ITEM	QTY.	DESCRIPTION
A 1	1	Anchor for slip base bottom w/stem

A2: Lower Slip Plate Sub-Assembly

ITEM	QTY.	DESCRIPTION
A 2	1	Bottom half slip plate w/stem
A 3	2	3/8" 16 gr. 8 flanged shoulder bolt
A 4	2	3/8" 16 gr. 8 serrated flange nut

B. Redi-Torque Match Plate Hardware

ITEM	QTY.	DESCRIPTION
B 1	3	1/2" 13 x 3" gr. 8 Redi-Torque bolt
B 2	6	3/8" U.S.S. flat washer
B 3	3	1/16"-thick, Teflon-coated slip washer
B 4	3	1/2" 13 gr. 8 large-diameter flange nut
B 5*	0	1/16"-thick leveling shim

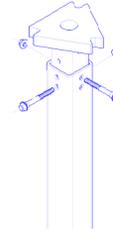
* May not be necessary for every installation.

C: Upper Slip Plate Sub-Assembly

ITEM	QTY.	DESCRIPTION
C	1	Top receiver for square sign support
C 1	2	Square sign support locking wedge

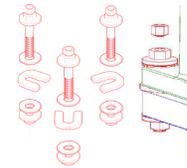
STEP A

- Install appropriate heavy-duty anchor (A1) plumb and squared up with road.
- Depth of embedment to leave 2 1/2" (+/- 1/2") from grade to top of anchor.
NOTE: For soil or concrete installation options, see details on the left.
NOTE: If installing in concrete, auger the footing hole shallow enough to be able to drive 3-4 inches of anchor (A1) into the bottom of the hole. This will help stabilize the unit as concrete is being poured and cured while also allowing for proper drainage.
NOTE: On multi-leg installations, be sure that all anchors are squared and lined up with each other.
- Insert stem of bottom sub-assembly (A2) into anchor (A1) correctly indexed so that the point of triangular slip plate is facing oncoming traffic.
- Insert both shoulder bolts (A3) so that top bolt is parallel with and the bottom bolt is perpendicular to traffic. Fully tighten both flange nuts (A4) on both shoulder bolts (A3).
TORQUE NUTS AS TIGHT AS POSSIBLE.

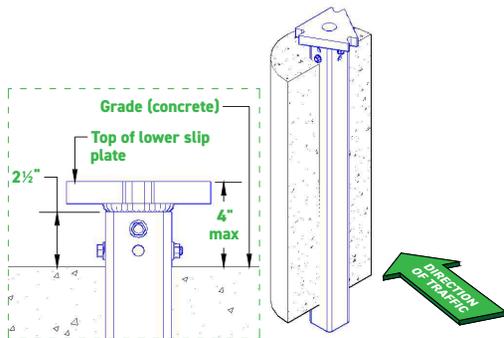


STEP B (Start here for reinstallation)

- Place one each Teflon-coated slip washer (B3) on top of lower slip plate (A2) at each notched point with open end of slot facing center of triangular slip plate. Leave enough room between the closed ends of the slot/notch to allow 1/2" Redi-Torque bolt (B1) to pass through.
- Place upper slip plate (C) onto the three slip washers (B3) properly indexed so that square post receiver portion is squared up with road.
- Slide 1 each 3/8" flat washer (B2) onto each Redi-Torque bolt (B1) then insert bolt (B1) with washer (B2) down through notched points of upper slip plate (C), slot of slip washer (B3), and notched point of lower slip plate (A2).
- Slide 1 each 3/8" flat washer (B2) up on exposed thread of each bolt (B1) followed by threading 1 each 1/2" flange nut (B4) onto each bolt (B1) one half turn past finger tight.
NOTE: Tighten bolts using ONLY the 3/4" larger hex head to ensure the plates are as parallel as possible. The smaller hex head will be used in the next step.

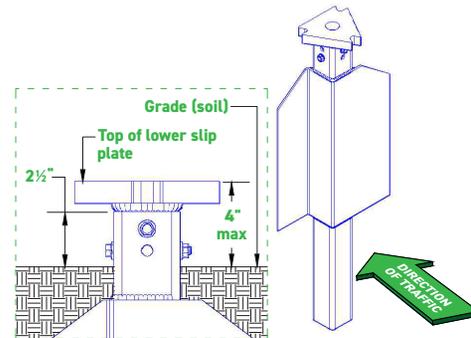


CONCRETE INSTALLATION DETAIL



NOTE: Recommended footing size is a minimum of 12" in diameter and 30" deep.

DIRECT-DRIVEN SOIL INSTALLATION DETAIL



NOTE: Install with the widest bearing surface of the stabilizing wing parallel with the face of the sign.

STEP C

- Insert square sign support into upper slip plate (C) receiver until support bottoms out.
- With a handheld hammer, drive the square sign support locking wedge (C1) into the upper slip plate (C) receiver at the pre-determined corner, marked by a 1/4" notch. (The locking wedge does not need to be driven flush with the top of upper slip plate receiver.)
***SHIMMING: Before moving on to Step 3, check the plumb of the sign support(s). If necessary, 1/16"-thick leveling shim(s) (B5) may be used at the appropriate point(s) between slip plates. To replumb, loosen bolt (B1) using the 3/4" larger hex head at desired point enough to lean the upper slip plate (C) back and slide leveling shim (B5) into place. Shim(s) should be placed under Teflon-coated slip washer. Maximum of 2 each leveling shims per notched point.**
- After locking wedge (C1) is securely in place, use the 3/4" larger hex head to loosen each bolt (B1) and nut (B4) one at a time, then retighten each bolt (B1) using the 1/8" (smaller) hex until the 3/8" hex head twists off from the 3/4" hex head. This will set the proper torque level.

