



Installation Instructions For 1100 Series Ground Set

SPECIAL CIRCUMSTANCES: If the following conditions occur - **STOP!** Consult your distributor for more information.
A) Height exceeds 48" B) Roof eaves exceed 16" C) Location is within 1500 feet of a power line. See TABLE 4 for height.

The 1100 Series ASFS offers 3 packages:

- 1) 1102 ITV (1 arm - Lateral), 2) 1102 IV (3 arms - Lateral & Longitudinal - Full)
- Installation of 2 systems is required on homes $\leq 76'$ (based on the manufacturer's requirements for lateral and longitudinal securement. When only lateral securement is required, the system must be rated for a working load of 1000 lbs. When installed in conjunction with an 1100 ASFS must be rated for a working load of 1000 lbs.)

INSTALLATION OF GROUND PAN

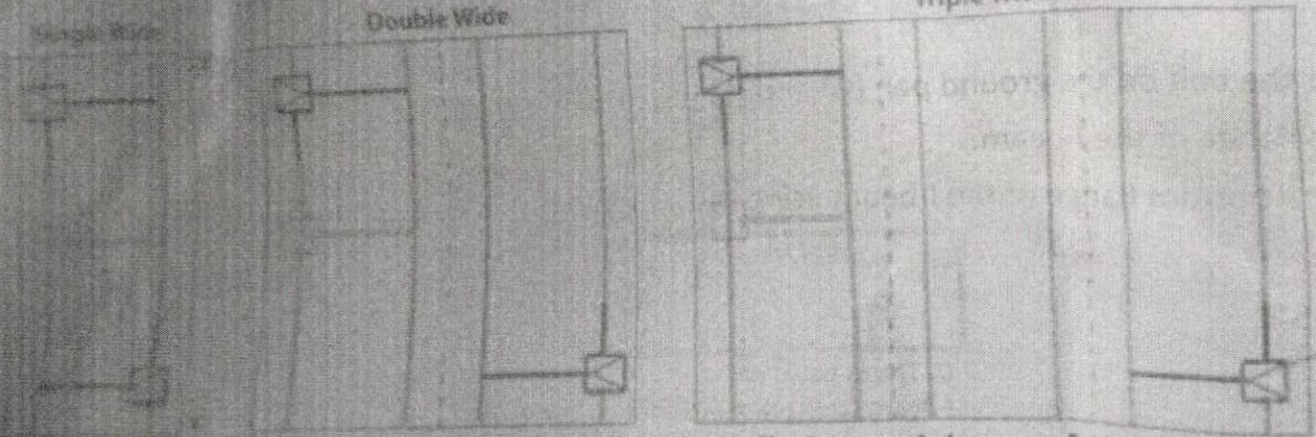
- 1) Remove weeds and debris in an approximate 3 foot square to expose firm, level ground equivalent to a 21" x 21" footing.
- 2) Before placing pan in ground make sure pan hardware is installed. (see Diagram 1100-1) Hammer bolt head until washer and bolt are flush with pan. a.) 1102 IV - Transverse bolt installed with lock washer and Longitudinal bracket installed with lock washer and nut, and washer. c.) 1102 Solo - Both Transverse & Longitudinal bolt installed with lock washer and nut, and washer.
- 3) Place pan on ground, so that, Longitudinal bracket/bolt is centered directly under the I-Beam. Transverse bolt is placed towards adjacent I-Beam or center line of home. (Diagram 1100-1)

washer. Hammer bolt head until washer and bolt are flush with pan. a.) 1102 IV - Transverse Bolt installed with lock washer and Longitudinal bracket installed with nut and washer. c.) 1102 Solo - Both Transverse & Longitudinal bolt installed with lock washer(s). Place pan on ground; so that Longitudinal bracket/bolt is centered directly under the I-Beam and/or Transverse towards adjacent I-Beam or center line of home. (Diagram 1A) Press or drive pan in ground to new grade as per local jurisdiction.

OF TRANSVERSE (LATERAL) ARM: See Table 3

- 1. V. S. 1102 Solo System - see Page 2 Diagram(s) 5 of 7.
- 2. Transverse I-Beam connector (D) over adjacent I-Beam.
- 3. 1.5" section of Transverse Arm (E) into 1.5" section. Attach 1.25" section of arm to I-Beam with bolt, nut, and washer.
- 4. Flatten end of 1.5" Transverse Arm (E) over bolt in pan and hand tighten nut and washer
- 5. Tighten upper and lower hardware on Transverse Arm.
- 6. Secure 2 sections of Transverse Arm with (4) $\frac{1}{2}$ " x $\frac{3}{4}$ " self tapping screws in pre-drilled pilot holes.

Diagram 1 ASFS System Placement



Transverse and Longitudinal Arms- Shall be installed at a minimum of 2' in and not more than 25% in from the end of the home. (2nd pier location recommended)

Recommended location of 3rd or 6th system, if required.

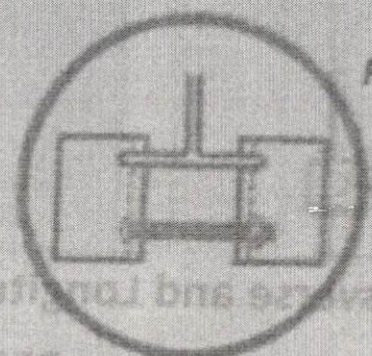
Anchor & Strap- All single wides shall have four corner anchors that shall be installed a minimum of 2' and a maximum of 10' from the end of the home. Straps shall also be at a minimum angle of 45 degrees and a maximum of 90 degrees.

beam. Note: It is required that each longitudinal arm is installed in opposite ground pan (G) and loosely secure with provided nut and washer.

of the I-beam using the longitudinal I-beam connectors (F) with bolt and

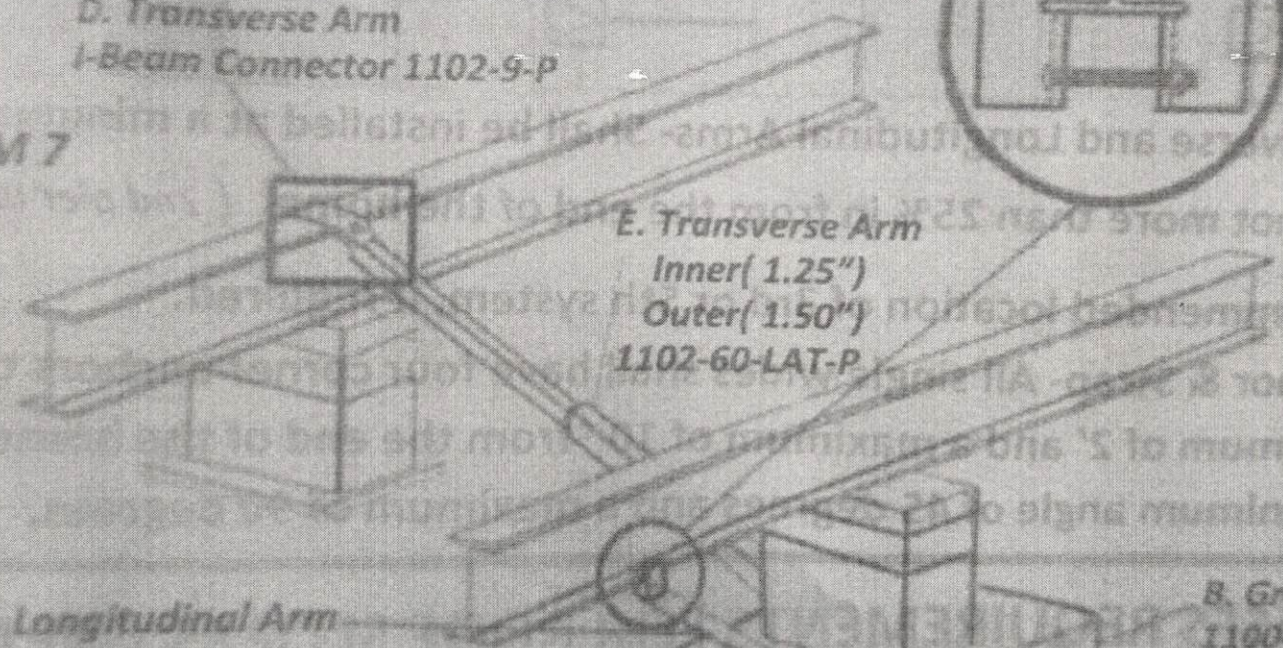


D. Transverse Arm I-Beam Connector 1102-9-P



F. Longitudinal I-Beam Connector 1102-10-P

AM 7



E. Transverse Arm Inner (1.25") Outer (1.50") 1102-60-LAT-P

A. Longitudinal Arm 1102-1.5-7-P

B. Ground Pan 1100-1A-G

G. Longitudinal Bolt on Ground Pan

anchors. (exception see note 3 & 4 below)
 and the related anchors and stabilization plates.

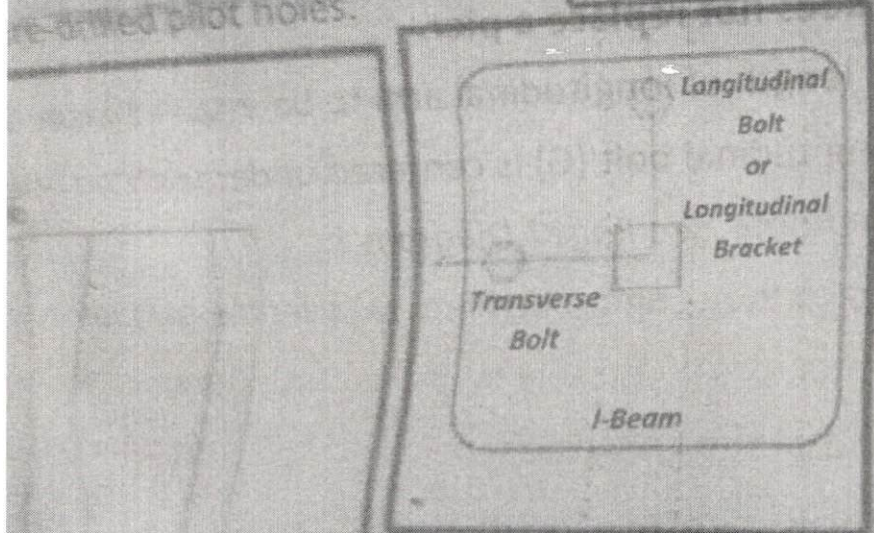
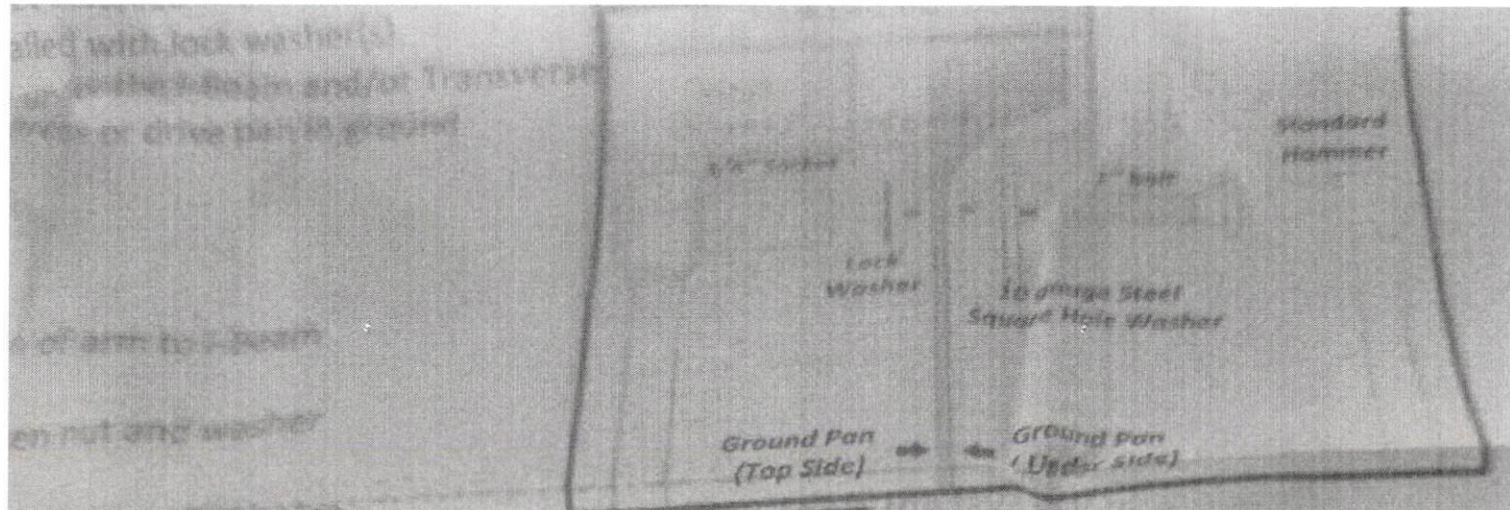
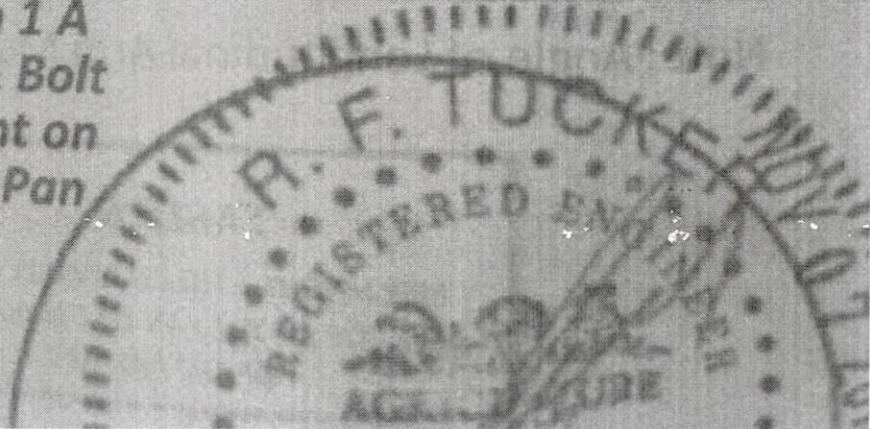


TABLE 3

| Frame Width | Transverse Arm Tube Lengths |
|-------------|-----------------------------|
| 99.5" ≤ | 60" |
| 112" ≤ | 72" |

**Diagram 1 A
Bracket & Bolt
Placement on
Ground Pan**



ions underneath the home. see page 1, diagram 2
the flattened end of the Longitudinal arm (A) over the bolt on t
are both I-beam connectors (F) loosely on the bottom flange of the
attach the opposite end of the Longitudinal arm(A) to the bottom fla
using standard hand tools, tighten all nuts and bolts.
Angle of Longitudinal Arm Must Be Between 15° & 45°.

TABLE 6

*PIER HEIGHT = THE DIMENSION FROM
THE TOP OF THE PAN TO THE BOTTOM
OF THE I-BEAM*

| Pier Height | Longitudinal Arm Length |
|-------------|-------------------------|
| 22" - 24" | 39" |
| 12" - 32" | 44" |
| 12" - 40" | 54" |
| 12" - 48" | 65" |