

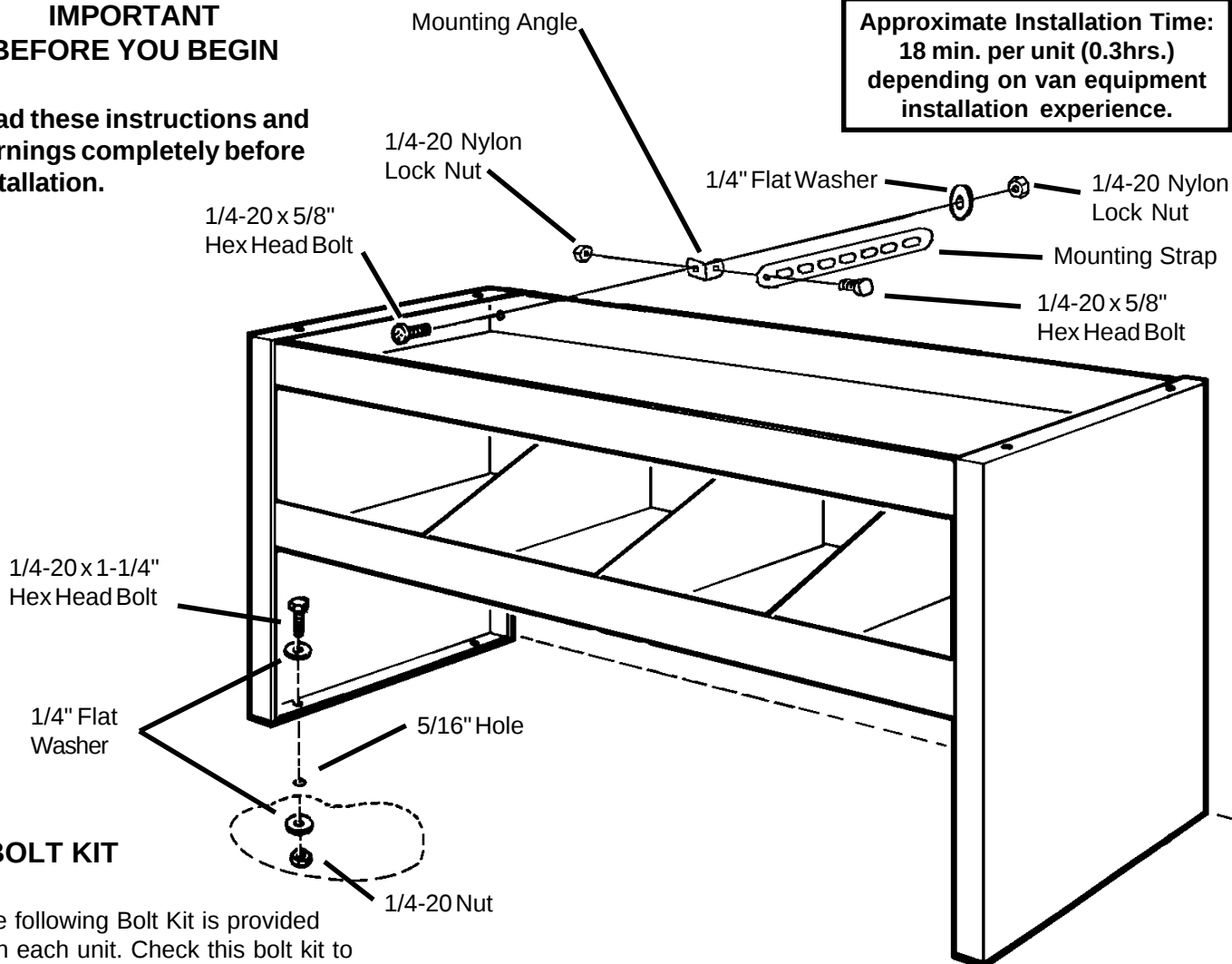
INSTALLATION INSTRUCTIONS

All-Welded Shelf Unit - Model 8234, 8230, 8222

IMPORTANT BEFORE YOU BEGIN

Read these instructions and warnings completely before installation.

Approximate Installation Time:
18 min. per unit (0.3hrs.)
depending on van equipment
installation experience.



BOLT KIT

The following Bolt Kit is provided with each unit. Check this bolt kit to be sure the following parts are included:

8222 8230 32-8233	8234 32-0153	Description
2	0	1-1/4" x 12" Mounting Strap
4	0	1/4-20 x 5/8" Hex Hd. Bolt
8	4	1/4-20 Nylon Lock Nut
4	4	1/4-20 x 1-1/4" Hex Hd. Bolt
2	0	12-14 x 3/4" Tek Screw
12	0	1/4" Flat Washer
1	0	Installation Tool
1	0	1/4-20 Blind Fastener
1	0	1/4" Lock Washer
1	0	1/4-20 x 2-1/4" Blk. Ox. Bolt
2	0	Mounting Angle

PARTS LIST

- 1- Welded Shelf Unit

TOOLS REQUIRED

- 7/16" Open or Box End Wrench [2]
- Electric Drill with 5/16" Drill Bit
- 5/16" Nut Driver
- 9/16" Open or Box End Wrench

Rev. C 1/01 Part No. 24-0119

weather guard
DIVISION OF KNAACK MFG. CO.

INSTALLATION INSTRUCTIONS

1. Place Shelf Unit in position in vehicle. Mark through mounting holes in side panel bottom flange.

2. Remove shelf unit. Drill holes. Replace unit and secure.

⚠ CAUTION

To keep debris out of your eyes when checking the underside of the vehicle, or when drilling, always wear protective eyewear.

⚠ CAUTION

Prior to drilling, so as not to cut or puncture fuel tanks, fuel lines, brake lines, electric wires, etc., check under vehicle for locations.

NOTE: A Blind Fastener and 1/4" Lock Washer have been provided for use in areas where standard fasteners can't be used, such as heat shields and support channels. See Blind Fastener installation instructions.

⚠ WARNING

All floor mounting bolts near the gas tank should be installed from the underside of the vehicle, to guard against the gas tank being punctured in the event of a collision.

3. Two wall Mounting Straps and two Mounting Angles are provided. The Mounting Straps can be bent to any shape and/or used with the Mounting Angles. The Mounting Straps should be attached to the upper portion of the unit in a manner that would minimize movement of the unit both front to rear and side to side.

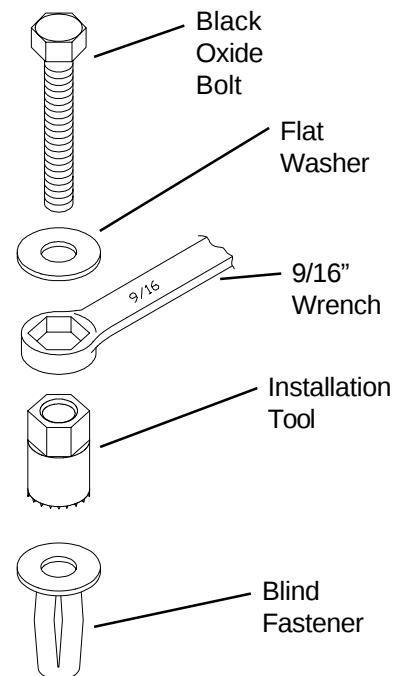
4. Fasten the other end of the strap to the vehicle wall (brace member). Repeat on the other end of the cabinet.

INSTALLATION PROCEDURE USING BLIND FASTENERS

Place a drop of oil on the black oxide bolt before assembling as shown below. Place the Blind Fastener in the hole and use a 1/2" or 7/16" wrench to tighten black hex bolt until the blind fastener is fully seated. When setting black hex bolt, it will start out hard. As the Blind Fastener "bulbs" out it will get easier, until it bottoms out or sets. Make sure the Blind Fastener and Installation Tool do not turn during installation.

⚠ CAUTION

Prior to drilling, so as not to cut or puncture fuel tanks, fuel lines, brake lines, electric wires, etc., check under vehicle for locations.



-NOTICE-

Any modification or unintended use of this product shall immediately void all manufacturers warranties. Manufacturer disclaims all liability for injuries to persons or property resulting from any modification to, or unintended use of this product.

If you have any questions, please give us a call. **Call Toll Free 1-800-456-7865**

WEATHER GUARD® products are protected by one or more of the following trademarks:

U.S. - 842268, 1661625, 1663369, 2228051, 2362167; Canada - 282725; U.K. - 1400720; N.Z. - 296049; Aus. - 761964;

KNAACK MANUFACTURING COMPANY

420 E. TERRA COTTA AVENUE - CRYSTAL LAKE, ILLINOIS, USA 60014

815-459-6020

©2001 Knaack Manufacturing Company



KNAACK
MANUFACTURING
COMPANY