

## Instructions and Parts List

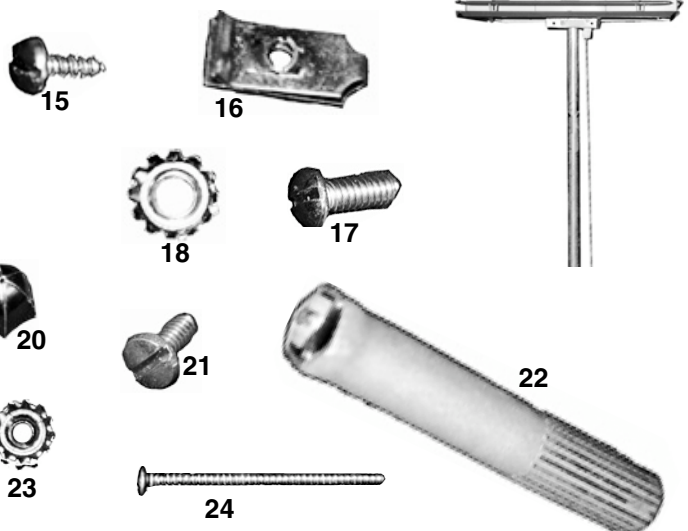
# MSS-12R Martin Safety System

NOTES: (1) A complete system is packed in two boxes — pole box and house box. House box contains hardware for both pole and house assembly. 2) It is necessary to install pole before house is put up, but house can be assembled at any time.

## HOUSE PARTS PACKED IN HOUSE BOX

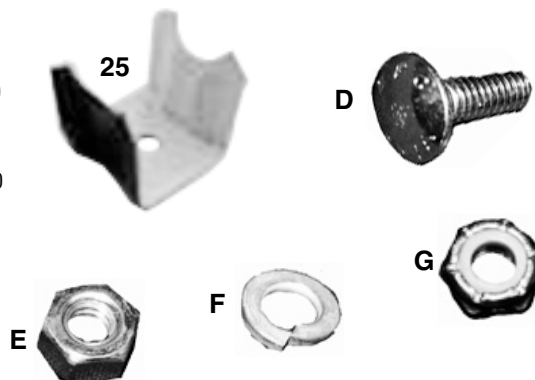
Code #	Item	Qty
25022	1	4 Floor section
924776	2	1 Roof
24771	3	1 Ceiling
825035	4	4 End panel with rail attached
25040	5	12 Door
26228	6	2 Center divider
926228	6A	2 Modified Center divider
26235	7	4 Small divider
926235	7A	4 Modified short divider
25076	7B	6 Internal compartment plugs
26204	8	1 Roof cap
25056	8A	1 Perch rod
35278	9	4 6-32x18-5/8 tie rods
25045	10	4 Front guard rail 17-1/4" long
26240	11	8 Floor tray (see page 8)
26242	12	4 Center floor tray (see page 8)
925065	13	12 Winter door stop (see page 12)

Check parts against this list (pages 1 and 2) before starting assembly. Refer to illustrations on pages 6 and 7 to view house parts. If any shortages are found, refer to Packing Slip for claim instructions.



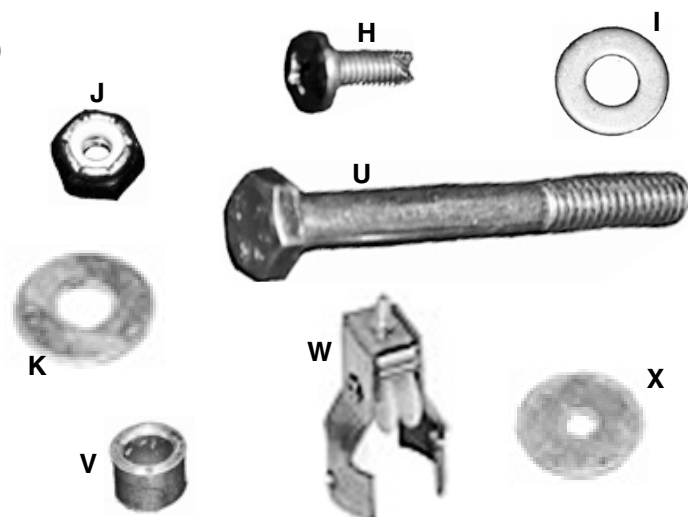
## #980009 PARTS IN SMALL PLASTIC BAG (HARDWARE)

35250	15	10 #6x3/8 Sheet metal screw (SMS)
35286	16	6 Flat C nut
40050	17	4 10-24x1/2 Round head machine screw (RHMS)
40550	18	4 10-24 Keps nut
35289	20	8 6-32 Acorn nut
35263	21	24 6-32x5/16 Binder head machine screw (BHMS)
27300	22	1 Kit wrench (fits items 20, 23, 28)
35252	23	26 6-32 Keps nut
35270	24	10 6-32x1-1/4 Pan head machine screw (PHMS)
25060	25	10 Rail support



## #980004 POLE PARTS PACKED IN THIS BOX (LARGE PLASTIC BAG)

20414	A	2 'A' Tube clamps
28024	B	2 'B' Tube clamps
20416	C	2 Links
30052	D	4 1/4-20x3/4 Carriage bolts
42500	E	4 1/4-20 Hex nuts
43550	F	4 1/4 Lock washers
32019	G	1 1/4-20 Lock nuts
35264	H	2 10-32x1/2 Self threading screws
32048	I	1 1/4x9/16 Flat washer
40525	J	1 10-24 Lock nut
24380	K	1 3/4 O.D.x5/16 I.D. washer
35248	T	4 Tape strips (see page 11)
32003	U	1 1/4-20x2-1/4 Bolt
26213	V	2 Brass bushings
926208	W	1 Pulley end assembly (see page 11)
24400	X	1 3/4 O.D.x3/16 I.D. washer



#798100 **PARTS PACKED IN BUNDLE**

<u>Code #</u>	<u>Item</u>	<u>Qty</u>	<u>Description</u>
33000	N	1	22-foot rope
26211	O	1	Center bracket
26212	P	1	Rope cleat

#980007 **PARTS IN PLASTIC BAG** (LANYARD LOCK)

726276	34	1	Lanyard lock assembly
26272	35	1	Lanyard lock case cover

**PARTS PACKED IN SS POLE BOX**

27856	Q	1	1-1/4" x 60-1/2" Post (top section)
27858	R	1	1-1/4" x 76" Post (center section)
27850	S	1	1-1/2" x 74" Post (bottom section)
28410	29	1	1-3/4" x 22" Ground Socket
28024	30	2	'B' Tube clamp
42500	31	2	1/4-20 Hex nut
43550	32	2	1/4" Lock washer
30053	33	2	1/4-20x1-1/4" Carriage bolt

**NOTE:**  
Top section pole (Q)  
is packed **INSIDE**  
bottom section pole (S)

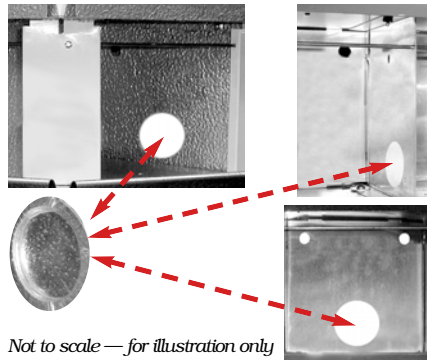
To order parts, accessories or Nature House products visit [www.naturehouseinc.com](http://www.naturehouseinc.com) or call 800-255-2692 or email [<natsoc@adams.net>](mailto:natsoc@adams.net)

*Please use product code number  
when ordering parts*

OUR SUPERIOR QUALITY NATURE HOUSE PURPLE MARTIN HOUSES NOW OFFER A CHOICE OF REGULAR 6"x6" COMPARTMENTS OR ENLARGED 6"x12" COMPARTMENTS BY SIMPLY INSTALLING OR REMOVING PLUGS FROM HOUSE DIVIDERS

**CAUTION:** Because of decreased entry size, it is important that regular nest checks be conducted during the nesting season when enlarged compartments are in use to make sure that martins are not trapped inside. It has been noted that sparrows may build a nest in front of the martin nest, trapping baby and/or adult birds.

NOTE: Dividers to be used in modifying the house now have a hole with plugs inserted. Leaving the plugs in place will keep the original 6"x6" compartments intact **OR** removing the plugs from those dividers will result in a modified house with enlarged compartments.



**TO ENLARGE THE COMPARTMENTS, simply remove plugs and replace doors with crescent entrance doors. Enlarged compartments create a dark cavity which is inviting to starlings, thus starling resistant crescent entrance doors are suggested to prevent starling predation.**

\*Crescent Door



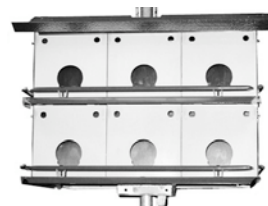
**CD-12** (12 pak) **Item #75450**  
**CD-6** (6 pak) **Item #75452**

\*Blank Door



**BD-12** (12 pak) **Item #75440**  
**BD-6** (6 pak) **Item #75442**

\*NOT INCLUDED WITH HOUSE KIT - ORDER SEPARATELY

**MSS-12**

**Regular  
12 compartments**



**Converted to  
6 compartments**

*\*Instructions to modify compartments  
on your newly constructed MSS-12*

1. Remove plug from one center divider and from two side dividers on each floor.
2. Install starling resistant entrance Crescent Door on compartment front.
3. Install a Winter Door Stop **OR** a Blank Door at back of compartment.

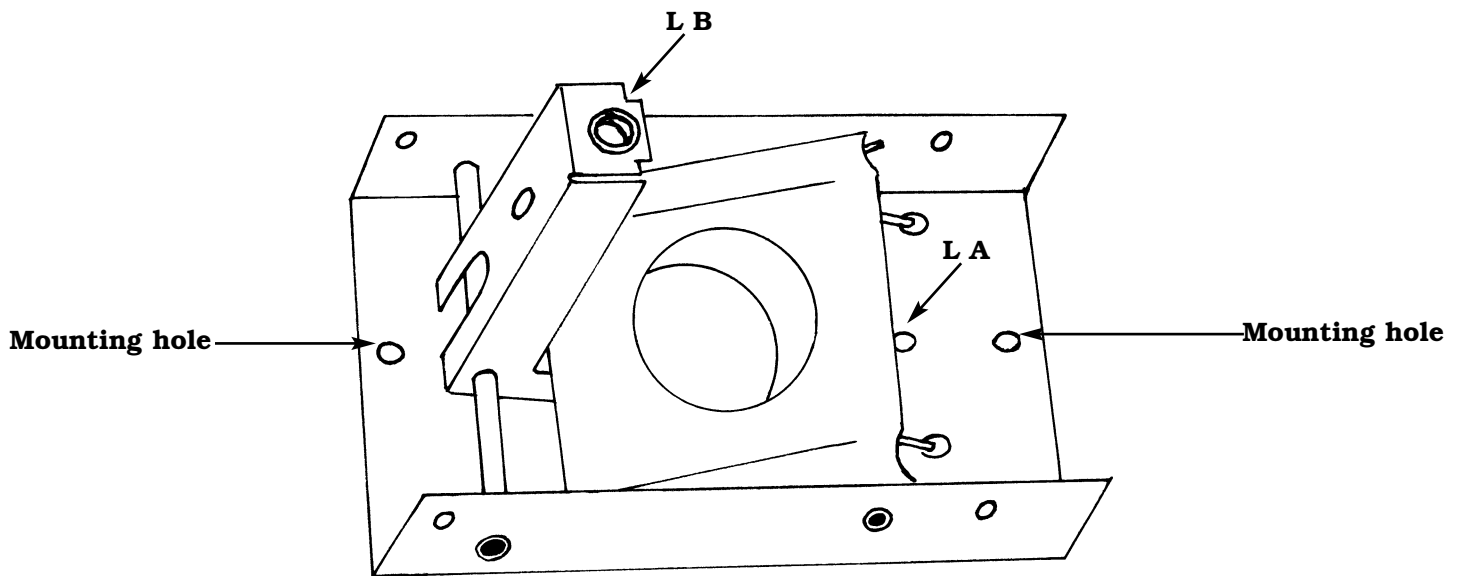
*\*Once house has been put together, follow the above instructions to modify your MSS-12 martin house from a 12-compartment to a 6-compartment house.*

Call 800-255-2692 or visit [www.naturehouseinc.com](http://www.naturehouseinc.com) to order Crescent Doors (12 pak or 6 pak); Blank Doors (12 pak or 6 pak)

**Included in this system is a Lanyard Lock with instructions for installing to house.**

## Lanyard Lock Instructions

This device provides a positive means of locking your house into any position on the pole. Pulling out on the rope releases this lock and allows house to be raised and lowered. Releasing rope allows lanyard lock to tighten against pole securing it in position. When lowering house, stand out far enough from base of mounting pole to allow for pulling rope out for release of lock (see drawing on page 7). Slowly allow lanyard to feed up through lock, standing in this same position and lowering house. To stop lowering at any point, simply loosen pull on rope and allow to drop in position. When raising house, stand close to base of mounting pole and pull rope straight down.



With house at top of pole, lock will engage ring in pole for correct location.

Remove the Lanyard Lock cover (35) from lock assembly (34). See illustration above and on page 7. At step 2 of martin house assembly (see page 4), install Lanyard Lock assembly (34) in center of underside of bottom floor through the two mounting holes as shown. Leave lock cover (35) off until later in assembly, step 24.

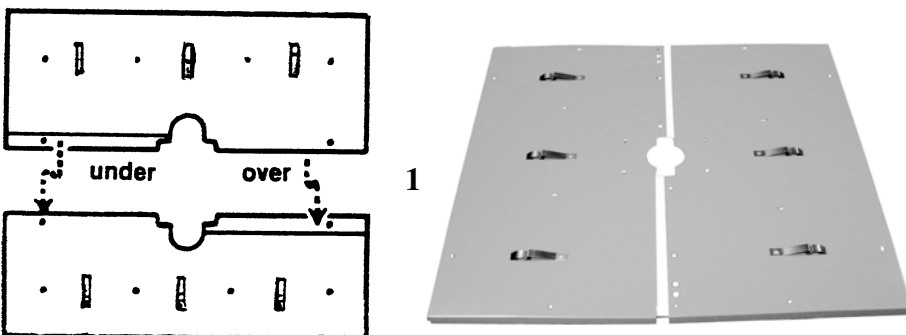
Wipe protective oily coating from all martin house parts surfaces prior to assembly.

**READ ALL INSTRUCTIONS BEFORE STARTING ASSEMBLY.** This will acquaint you with each step required.

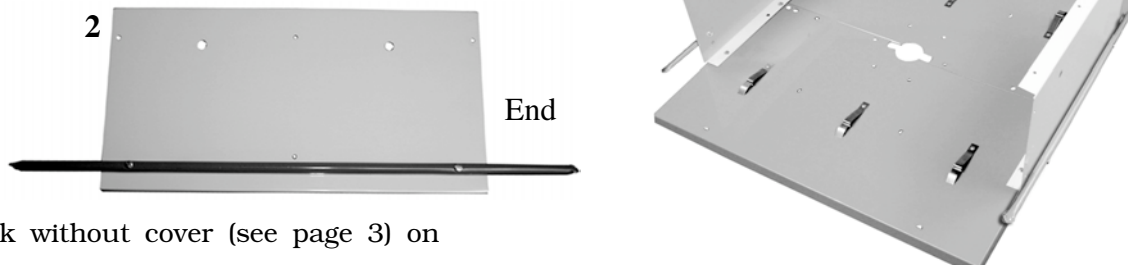
**LOOK AT EXPLODED VIEW OF HOUSE** on page 6. This shows each major part which is numbered or lettered to correspond with the parts list on page 1.

**Note:** S.S. refers to Stainless Steel items. ONLY use screws in specified location.

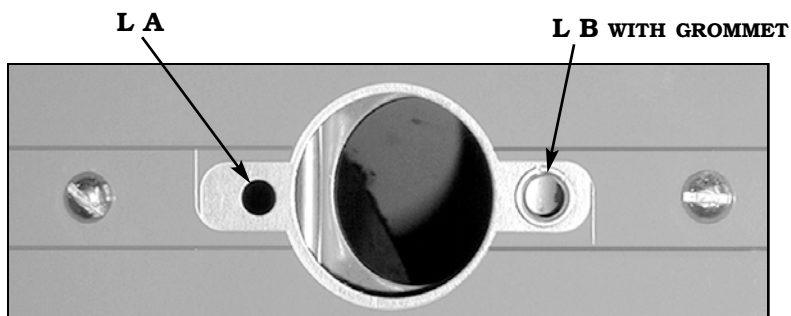
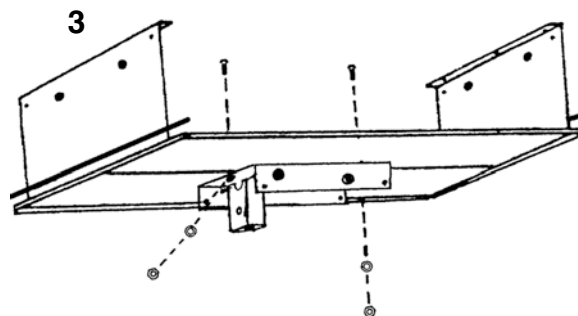
**1.** Floor clips should come installed on each floor section (1). For bottom floor, assemble two floor sections (1) by interlocking over and under as shown — green side up.



**3.** Attach two end panels with attached rail (4) using three each: 6-32x5/16 BHMS (21) and 6-32 keps nuts (23) per end. Flanges on end panels point in and rail brackets will be in lower corners.

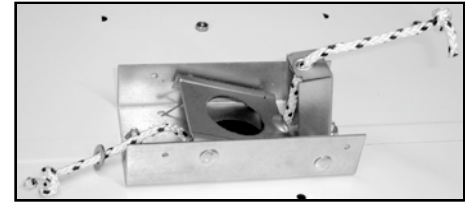
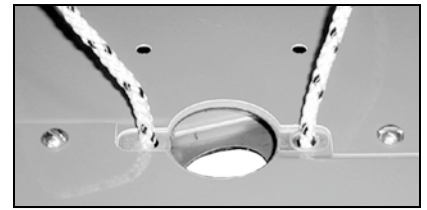


**3.** Install lanyard lock without cover (see page 3) on underside of floor/end panel assembly. Use two each: 10-24x1/2 RHMS (17) and 10-24 keps nuts (18). Mounting holes in Lanyard Lock will align with holes in seam of floor section. Screw heads MUST be on top (green side) of floor. Be sure rope holes in Lanyard Lock case line up with slots in center of floor assembly. See photo below.



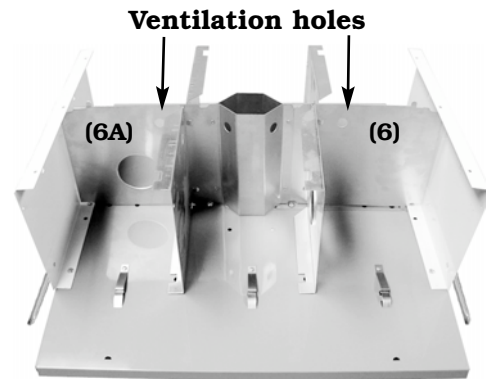


**4.** Uncoil rope (N). Working from top (green side) of floor/Lanyard Lock assembly (T), feed one end of rope through hole “L A” in Lanyard Lock case. Holes are identified in photo at step 2. Place the 1/4x9/16 flat washer (I) over end of rope and tie a knot near end of rope. Feed other end of rope through hole “L B” in Lanyard Lock case and hole “L B” in lever bracket. Tie a knot near this end of rope. (See photos at right.) At this point, we suggest placing bottom floor assembly on a wastebasket and centering so that floor will be level and prevent scratching your work surface.

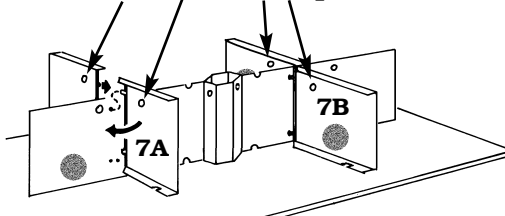


**5.** Assemble one center divider (6) and one modified center divider (6A) as shown, using four each: 6-32x5/16 BHMS (21) and 6-32 Keps nuts (23).

**6.** Place center divider (6) assembly between end panels (4), 1/2” dia. ventilation holes are up. (Pull doubled rope up through center of divider assembly.) Tabs on bottom edge of divider assembly will drop into holes in floor seam. Place two short dividers (7) in position with tabs entering floor and modified center divider (6A). (See illustration A below.) Place two modified short dividers (7A) in position with tabs entering floor and center divider (6). (See illustration B below.) Flanges on short dividers (7) and modified short dividers (7A) must face as shown. All 1/2” ventilation holes are up. When you’re sure that short dividers (7) and modified short dividers (7A) are in correct locations, bend tabs against straight side of “D” holes to lock in place on floor and on center divider.

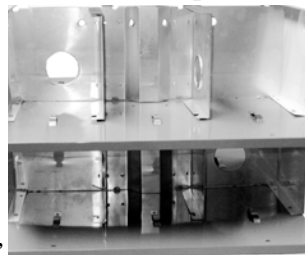


**Note: Ventilation holes up in all dividers**



**7.** Interlock two remaining floor sections (1) and place on top of bottom story assembly.

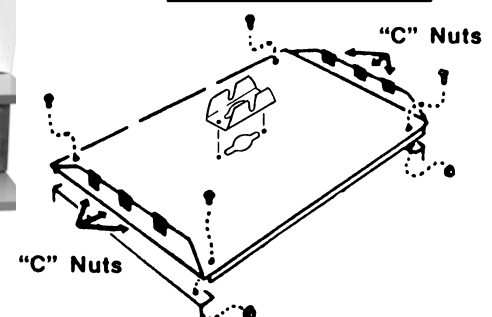
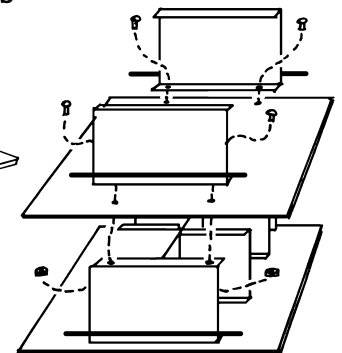
(Pull double rope up through center hole.) Attach two end panels (4) as shown, using only two each: 6-32x5/16 BHMS (21) and 6-32 Keps nuts (23) per end. Screws go down through flange in upper end panels (4), floor sections (1) and flange in lower end panels (4).

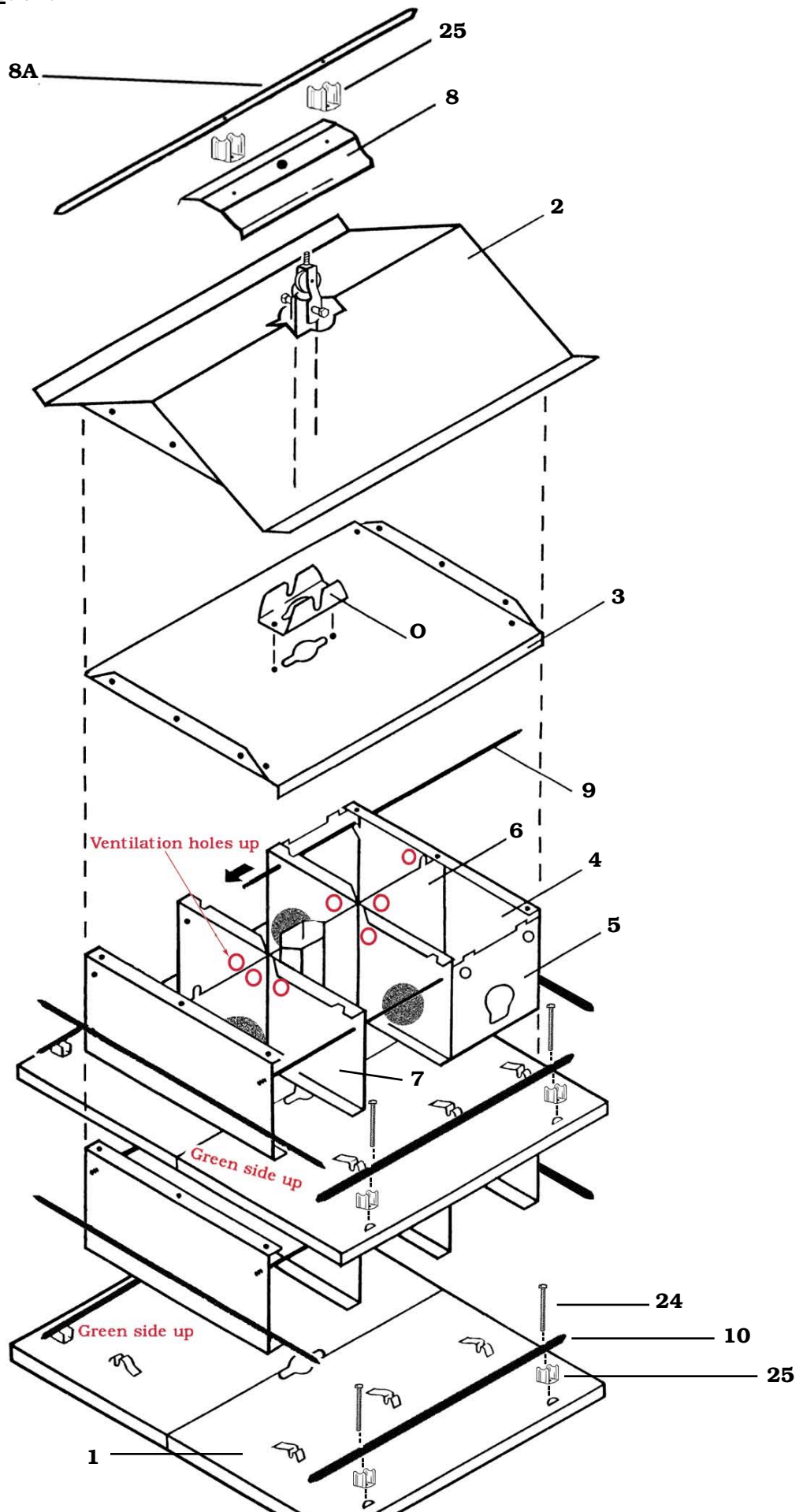


**8.** Repeat steps 4 and 5 for second story, pulling doubled rope up through center of assembly. Again, make sure short dividers (7) are correctly located before bending tabs.

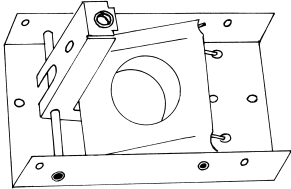
**9.** Slip flat C nuts (16) over holes on ceiling (3) edge. Flat side is out. Bolt center bracket (14) to ceiling center using two each: 10-24x1/2” RHMS (17) and 10-24 keps nuts (18). Screw heads MUST be on underside of ceiling.

Attach ceiling (3) to flanges of second story end panels (4) using four each: 6-32x5/16 BHMS (21) and 6-32 Keps nuts (23). Pull doubled rope up through center hole in ceiling/center bracket.

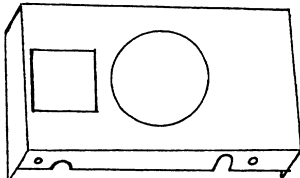




**34 - Lanyard Lock assembly**



**35 - Lanyard Lock case cover**



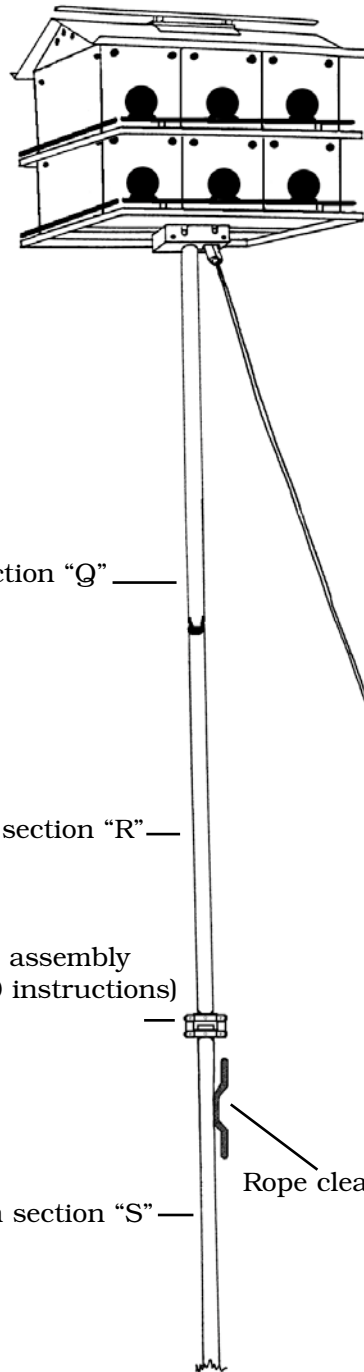
Post top section "Q" —

Post center section "R" —

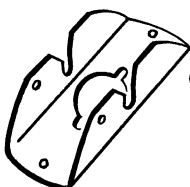
Tube clamp assembly  
(see step 20 instructions)

Rope cleat "P"

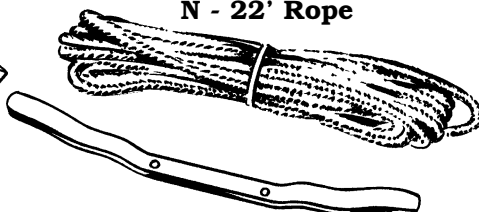
Post bottom section "S" —



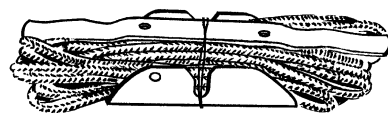
**N - 22' Rope**



**14 - Center Bracket**

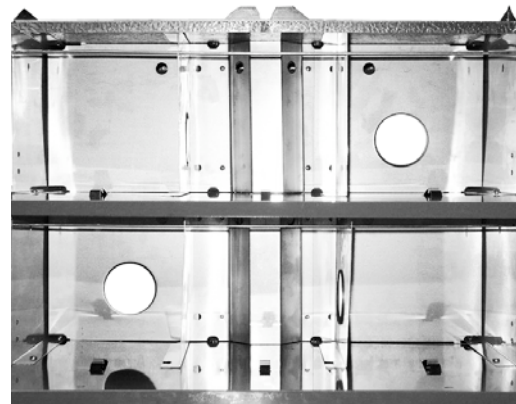
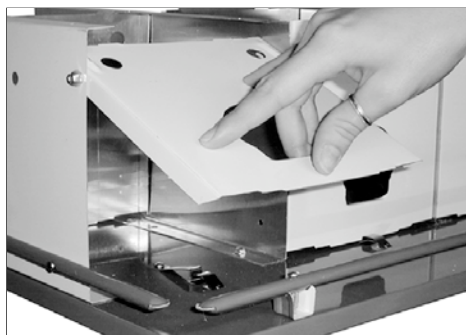
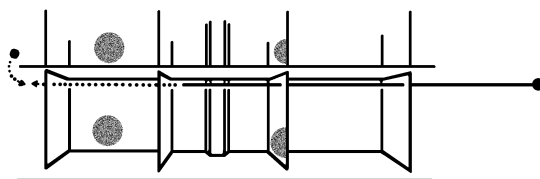


**P - Rope Cleat**

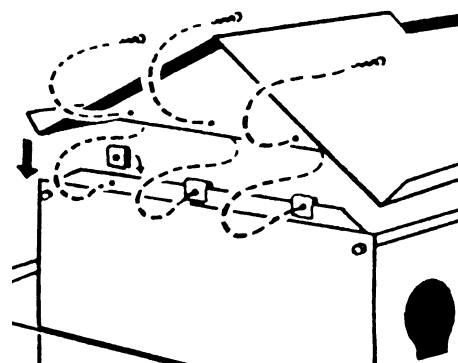


**[Bundle]**

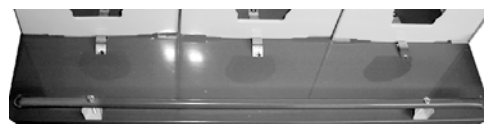
**10.** Install **four** tie rods (9) as shown by placing 6-32 acorn nut (20) on one end of rod; pushing rod through holes in end panels (4) and holes in short dividers (7) and modified short dividers (7A) then placing 6-32 acorn nut (20) on other end of rod. Hang doors over rod. Do not force. Doors should hinge freely and snap into floor clips on floor.



**11.** Attach roof to ceiling as shown with six #6x3/8 SMS (15). Flat C nuts can be positioned with a small nail if required. Roof is on outside of ceiling at both ends. (Pull rope up through hole in center of roof.)

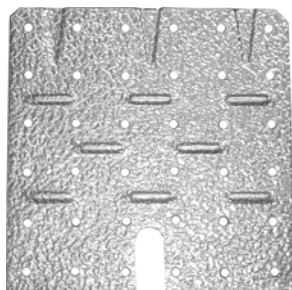


**12.** Attach four front rails (10) to floor (1) using two 6-32 x 1-1/4 PHMS (24), two rail supports (25) and two 6-32 keps nuts (23) per rail (10).

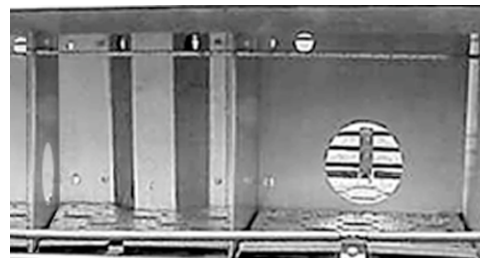
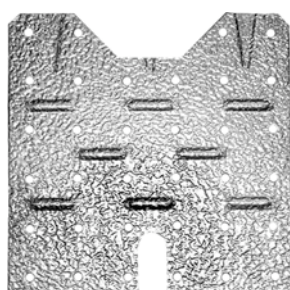


**13.** Floor trays (11) and (12) can be placed in house **after house is mounted on pole** (step 21). Flanges on sides of floor trays go down. Floor trays with cutout "A" go in center compartments.

(11)



(12)



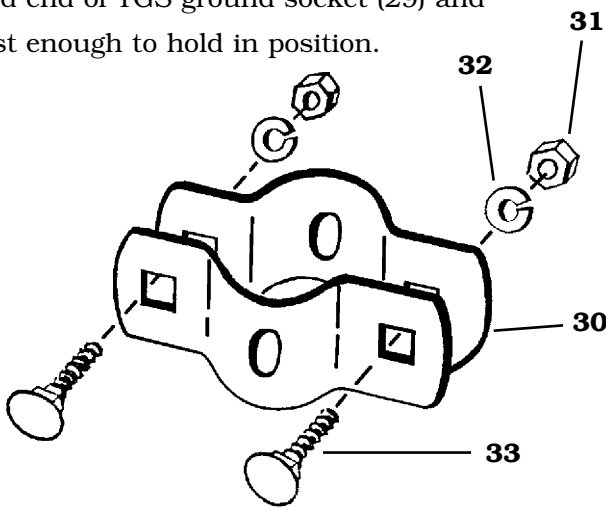


# TGS Ground Socket Installation

**Ground socket and hardware  
is packed inside pole box.**

**NOTE: TGS Ground Socket allows the pole and house to be moved to another location without losing the bottom section pole. Refer to Post Box Parts list (page 2) to identify parts in drawing/photo below.**

**14.** Assemble “B” tube clamps (30) as shown. Place assembly over slotted end of TGS ground socket (29) and tighten just enough to hold in position.

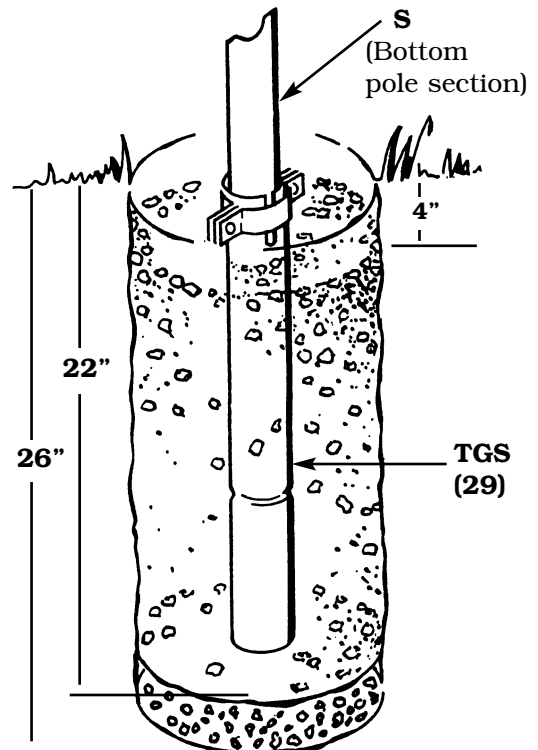


**15.** Slide pole bottom section (S) into socket 18” and tighten assembly securely.

**16.** Dig hole 8” diameter and 26” deep. Put 4” of coarse gravel in bottom of hole. Place a ball of crumpled newspaper inside lower end of socket to prevent concrete from sealing end. This will allow any water to drain from inside pole.

**17.** Place ground socket/pole section assembly in center of hole. Fill with concrete mix to just below slots in upper end of the socket. This will require approximately 80 to 90 pounds of mix. Use guy wires or rope to hold assembly in vertical position while concrete sets.

**18.** After concrete has hardened, loosen clamps and slide pole section to bottom of socket. Re-tighten clamps securely.

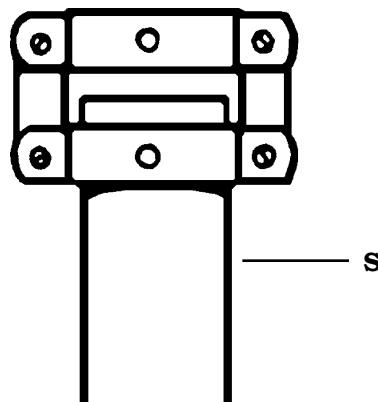
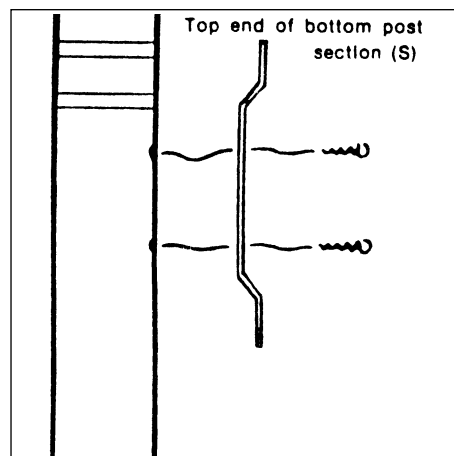
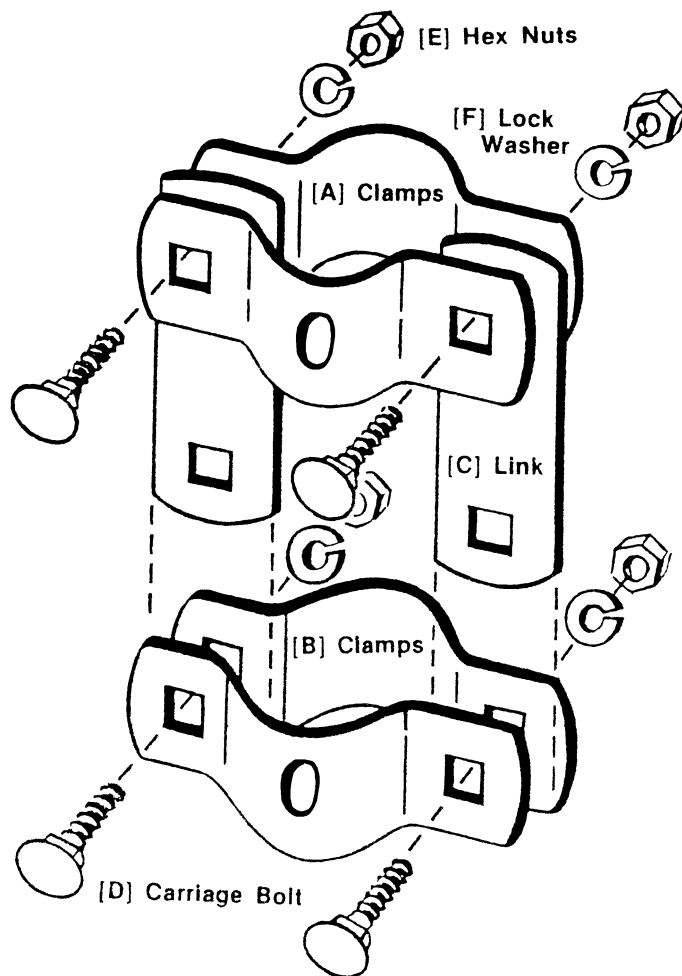


## Post Installation

**Post top section (Q) is packed inside bottom section (S) and MUST BE removed before installation of pole.**

**19.** Attach rope cleat (P) to pole bottom section (S) with two 10-32x1/2" self threading screws (H) in holes provided. This end of pole is up.

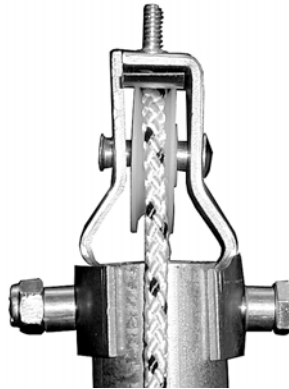
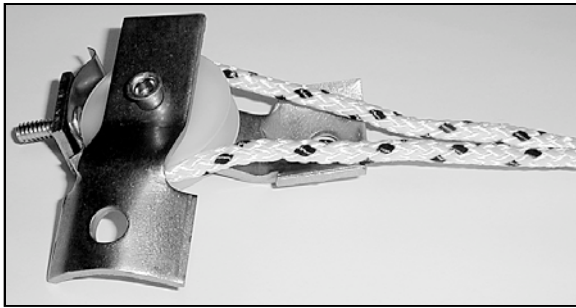
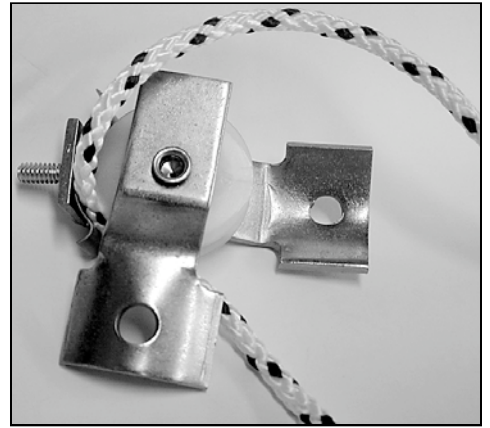
Assemble tube clamps as shown. Place "B" clamps over top end of pole (S) and tighten nuts. Leave "A" clamp loose for now. "A" clamps will be tightened later at step 26.



**NOTE:**  
Post top section (Q)  
is packed inside  
pole bottom section (S)

**20.** Pull end of rope that extends through hole “L B” in Lanyard Lock until there is approximately six feet of doubled rope above roof of martin house.

Work rope into pulley bracket over pulley (as shown below) using pulley end assembly (W) and far end of the doubled rope. Rotate one leg of pulley assembly 90° to aid in rope placement. Check to determine that ropes aren't crossed. Place this unit over pole top end (Q) and bolt in place using bolt (U), two brass bushings (V) and nut (G). Tighten firmly. See photos.



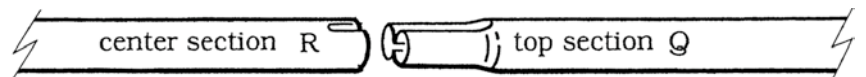
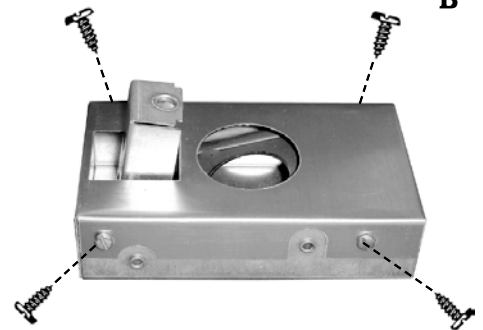
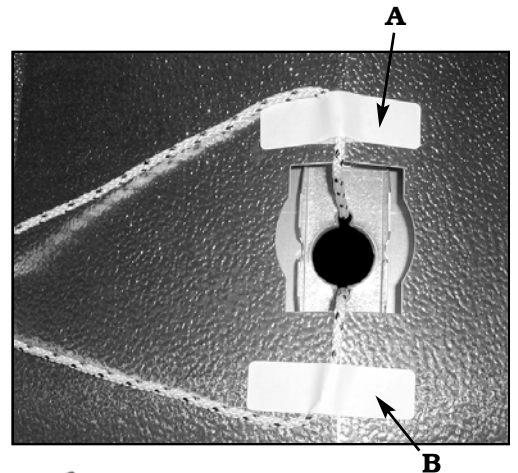
**21.** Using tape strips (T), tape one side of doubled rope to roof peak at Point A, and other side of rope to roof at Point B. See photo.

By looking through hole in roof, make sure rope is in notches in ceiling center bracket, and rope is not twisted inside house.

**22.** Slide crimped end of top pole section through roof hole; slide through house and Lanyard Lock about two feet. Check to see that ropes are still in place and not crossed. Remove tape strips from rope at roof peak.

At this point, install Lanyard Lock cover (35) on Lanyard Lock case, using four #6x3/8" SMS (15).

**23.** Attach center pole section (R) to top pole section (Q) as shown. Note alignment of crimped end of top section “Q” and grooved end of center section “R”.



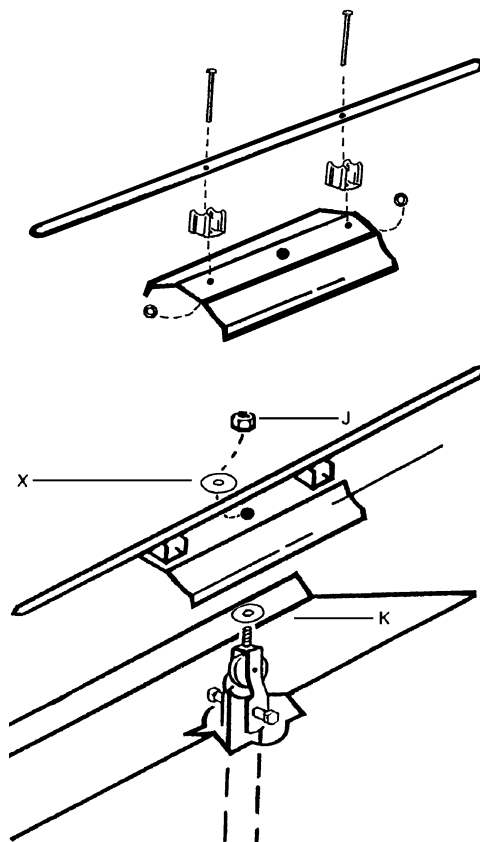
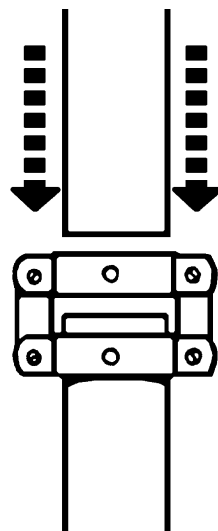
Center Section Post (R)

Top Section Post (Q)

**24.** Assemble roof cap (8), perch rod (8A) and rail supports (25). Use two each: 6-32x1-1/4 PHMS (24) and 6-32 Keps nuts (23) as shown.

**25.** Place 3/4 O.D.x5/16 I.D. washer (K) over stud at top end of pole. Add roof cap with perch (8) to assembly. Using 3/4 O.D.x3/16 I.D. washer (X) add to roof cap beneath perch rod as shown. Tighten assembly firmly in place using 10-24 lock nut (J).

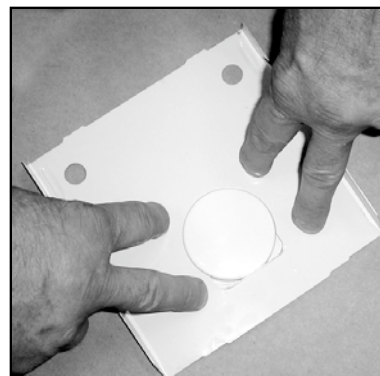
**26.** To safely lift and install house and upper pole sections, two people are required. House should be positioned about two feet above the bottom end of center pole section. This will provide a low center of gravity when lifting. Lift house and upper pole sections to vertical position. Then slip bottom end of center pole section through clamp assembly and down into bottom section (about 8"). Make sure center pole section slides down until it rests on top rope cleat screw. Rotate upper pole sections and house until groove in pulley wheel is in line with rope cleat on bottom section. Tighten nuts on clamp assembly.



**Refer to page 3 for proper Lanyard Lock operation and raising and lowering of house. Secure house in position by wrapping rope around cleat.**



**27.** Use winter door stops (13) to close house during winter months. We suggest to install door stops: remove door, place door stop upside down on a flat surface and press door onto the door stop, then rehang door.



**→ Rope should be checked yearly and replaced if worn. With house lowered, attach new rope to end of old rope with tape or wire and pull new rope through with old rope. ←**

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