

Instructions and Parts List

MSS-8 Martin Safety System

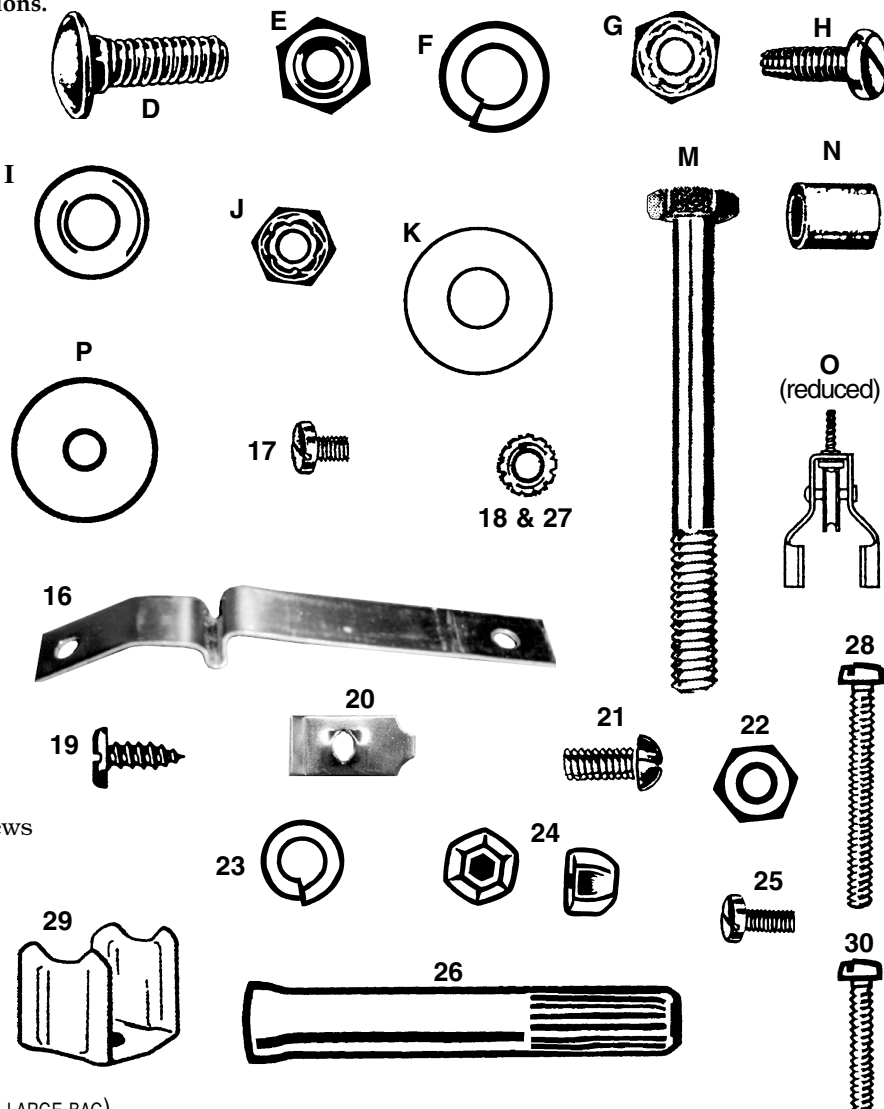


NOTES: (1) A complete system is packed in two boxes — post box and house box. House box contains hardware for both post and house assembly. 2) It is necessary to install post before house is put up, but the house can be assembled at any time.

Check parts against this list 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.

HOUSE PARTS PACKED IN THIS BOX

Item	Qty. Req.	Description
1	2	Floors
2	1	Roof
3	1	Ceiling
4	4	Ends
5	8	Doors
6	8	Inside dividers
7	1	Roof cap
8	4	12-3/4" Tie rods
9	1	Roof perch 16-1/8"
10	4	End rails 18"
11	4	Front rails 11-1/4"
13	2	Gable ends
14	8	Floor trays
15	8	Winter door stops(in paper bag)



PARTS IN LARGE PLASTIC BAG

A	2	'A' Tube clamps
B	2	'B' Tube clamps
C	2	Links
D	4	1/4-20x3/4 Carriage bolts
E	4	1/4-20 Hex nuts
F	4	1/4 Lock washers
G	1	1/4-20 Lock nuts
H	2	10-32x1/2 Self threading screws
I	1	1/4x9/16 Flat washer
J	1	10-24 Lock nut
K	1	3/4 ODx5/16 ID washer
L	4	Tape strip
M	1	1/4-20x2-1/2 Bolt
N	2	Brass bushing
O	1	Pulley assembly
P	1	3/4 ODx3/16 ID washer

PARTS IN SMALL FLOOR CLIP BAG (PACKED INSIDE LARGE BAG)

16	8	Floor clips
17	8	6-32x1/4 Pan head machine screw (PHMS)
18	8	6-32 Keps nuts

PARTS IN SMALL PLASTIC BAG (PACKED INSIDE LARGE BAG)

19	10	#6x3/8 Sheet metal screws (SMS)
20	6	Flat C nuts
21	4	10-24x1/2 Round head machine screws (RHMS)
22	4	10-24 Hex nuts
23	4	#10 Lock washers
24	*9	6-32 Acorn nut
25	*22	6-32x5/16 Pan head machine screw (PHMS)
26	1	Kit wrench (fits items 18, 24, 27)
27	*40	6-32 Keps nut
28	10	6-32x1-1/4 Pan head machine screw (PHMS)
29	10	Rail support
30	8	6-32x5/8 Pan head machine screw (PHMS)

PARTS PACKED IN BUNDLE

Item	Qty. Req.	Description
T	1	18 ft. rope
U	1	Rope cleat
V	1	Center bracket

PARTS IN PLASTIC BAG (LANYARD LOCK)

---	1	Lanyard lock assembly
---	1	Lanyard lock case cover

PARTS PACKED IN POST BOX

Q	1	1-1/4" x 60-1/2" Post (top section)
R	1	1-1/4" x 50-3/8" Post (center section)
S	1	1-1/2" x 60-1/2" Post (bottom section)
---	1	1-3/4"x24" Ground socket & Hdw.

*Extra parts included Covered by U.S. Pat. Nos: RE25,878; 3,367,632; 3,410,248; 3,426,732; 3,496,913; 3,563,205; D-221,090; 3,643,631; 3,986,480.

NOTE: Center section post (R) is packed inside bottom section (S).

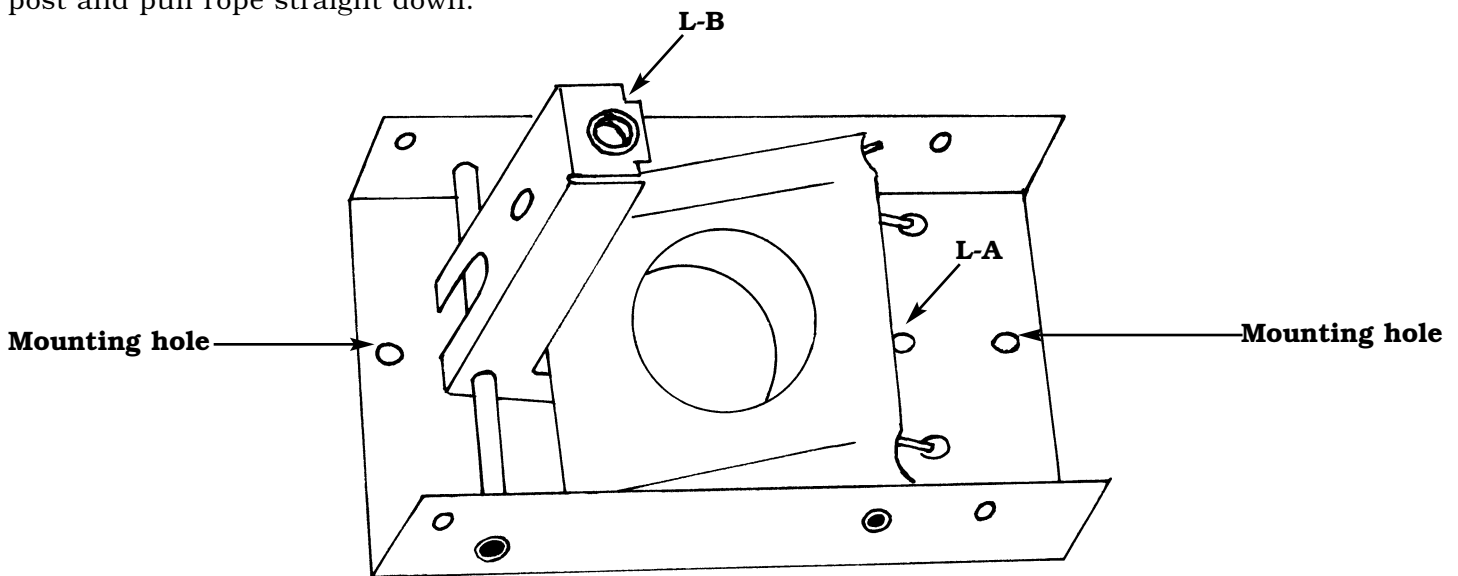
Additional parts included with MSS-8 system:

A. Included in this system is a **lanyard lock** with instruction for installing to house.

B. A **Mounting Post Ground Socket** is also included. This is an optional accessory. It can be used where installation might be moved later or where a person wants to take down the system at end of season.

Lanyard Lock Instructions

1. This device provides a positive means of locking your house into any position on the post. Pulling out on the rope releases this lock and allows house to be raised and lowered. Releasing rope allows lanyard lock to tighten against post securing it in position. When lowering house, stand out far enough from base of mounting post to allow for pulling rope out for release of lock. 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 post and pull rope straight down.



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

2. Remove the lanyard lock cover by sliding off of base. (Illustration shows lock with cover removed.) At step 4 of martin house assembly (see page 3), install lanyard lock assembly in center of underside of bottom floor through the two mounting holes as shown. Leave lock cover off until later in assembly, step 22.

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. **EXPLODED VIEW OF HOUSE** on pages 6 and 7 shows each house part numbered to correspond with item numbers on page 1.

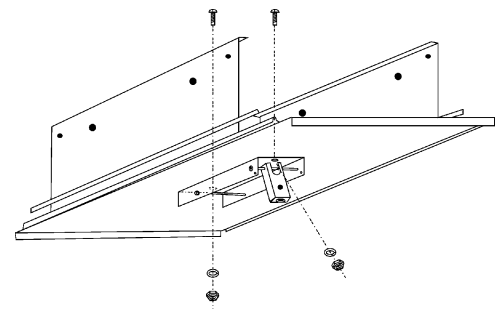
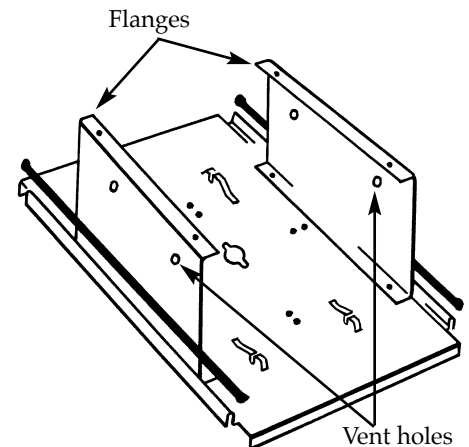
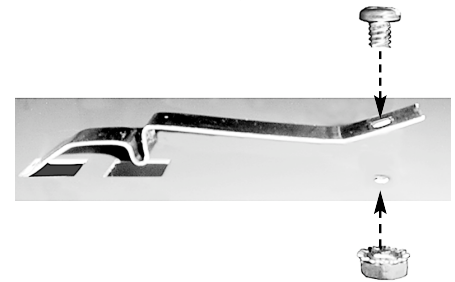
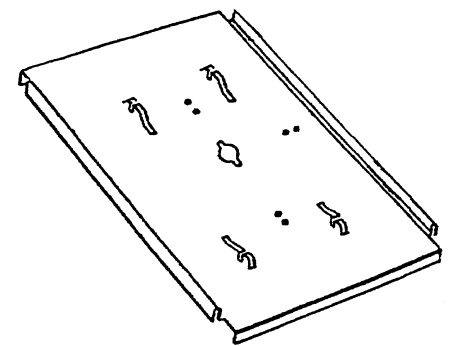
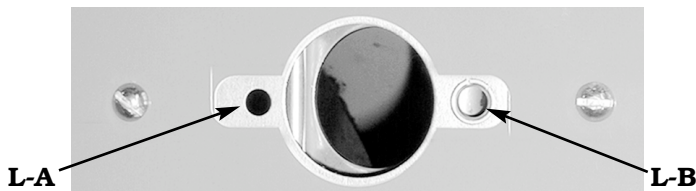
1. Attach four floor clips (16) to each floor section (1), using one 6-32x1/4 PHMS (17) and one 6-32 Keps nut (18) per clip. Screw heads are to be on the top (green side of floor). Notice on sketch of floor clip assembly, the front end of floor clip slips under the edge of front cutout. This assembly should be quite snug for proper spring action.

2. Attach one 18" green end rail (10) to each white end panel (4) using two 6-32x5/8" PHMS (30) and two 6-32 Keps nuts (27) per rail. Screw heads are to be outside of assembly. Note the vent holes are at the top of the end panels.

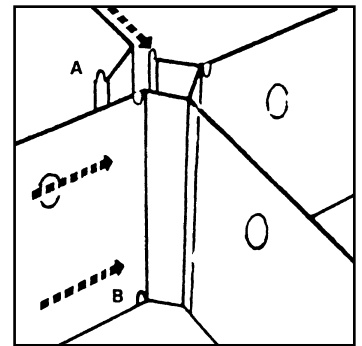
3. Attach two end panel assemblies to one floor using two each 6-32x5/16" PHMS (25) and 6-32 Keps nuts (27) per end. Note in the sketch the flanges on end panels point in toward center of floor and the vent holes are on the top.

4. Install lanyard lock assembly (see page 2) on underside of the floor/end panel assembly. This will become the bottom floor assembly. Use two each 10-24x1/2" RHMS (21), 10-24 hex nuts (22) and #10 lock washers (23) to attach lanyard lock assembly to underside of floor. Screw heads **must** be on top (green side) of floor. Note in photo, the rope holes in lanyard lock case align with notches in floor.

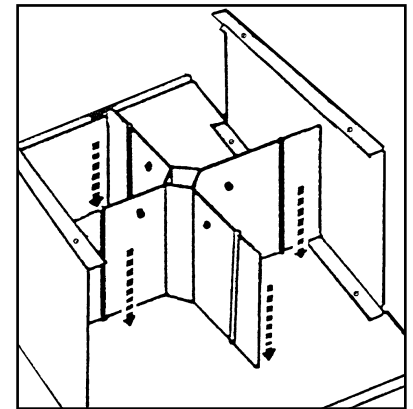
5. Uncoil rope (T). Working from top (green side) of floor/lanyard lock assembly, feed one end of rope through hole "L-A" in lanyard lock case. Place the 1/4x9/16 flat washer (I) over end of rope and tie a knot near end of rope. Feed other end of rope through hole "L-B" in lanyard lock case and hole "L-B" in lever bracket. Tie a knot near this end of rope. (See photos.) At 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.



6. Join four inside dividers (6) by attaching each divider section to adjacent section, as shown. Four sections are needed for each floor. Secure by bending down tabs “A” - “B” at top and bottom of each section. Note ventilation holes are up. Make sure parts are in proper location **before** bending tabs. Note that each tab has an adjacent cutout to receive tab after bending.

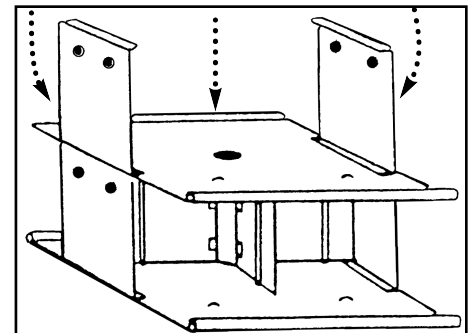


7. Install divider assembly on bottom floor. Tabs drop into round holes in floor. **Do not bend these tabs.** NOTE: SIDE RAILS HAVE BEEN DELETED FROM DRAWINGS FOR CLARITY. Pull doubled rope up through center divider assembly.



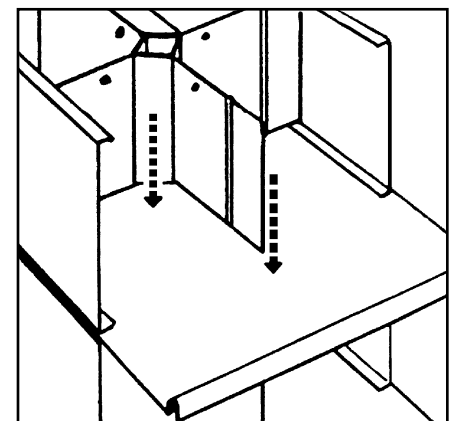
8. Place second floor/end panel assembly on top of bottom floor assembly. Locate with tabs on top of dividers through round holes in second floor. Pull rope up through hole in second floor.

Fasten ends to assembly using four 6-32x5/16 PHMS (25) and four 6-32 Keps nuts (27). Note: The 5/16" diameter round vent holes are up, as shown. Screws go through flange on upper ends, through floor and through lower ends, with nuts inside house.

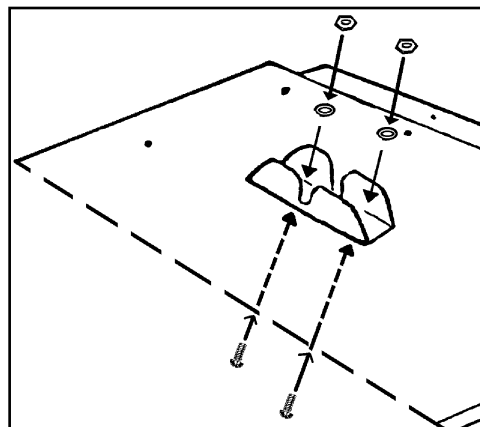


Repeat Step 6 for four remaining dividers.

9. Place second floor dividers in position, locating with tabs in round holes in second floor, as shown. Pull doubled rope up through center of second floor dividers.

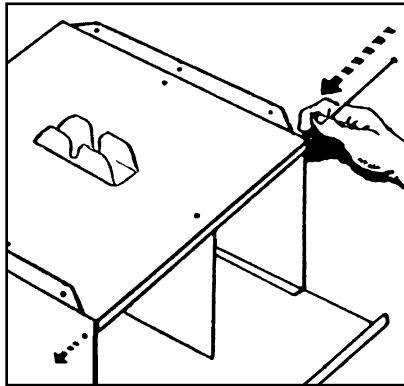


10. Using two each 10-24x1/2 RHMS (21), 10-24 hex nuts (22) and #10 lock washers (23), attach center bracket (V) to top side of ceiling (3). Screw heads **must** be on underside of ceiling. Note large flanges on ceiling point up.



11. Fasten ceiling to ends using four 6-32x5/16 PHMS and 6-32 Keps nuts (27, as shown. Pull doubled rope up through ceiling and center bracket.

12. Thread one 6-32 acorn nut (24) onto end of 12-3/4 tie rod (8). Install tie rod as shown by pushing through hole in end, divider, and out other end. Thread one 6-32 acorn nut (24) onto other tie rod end. Repeat for all tie rods.



13. Hang doors (5) over rod. Do not force. Doors should hinge freely and snap into floor clips on floor. Tighten all acorn nuts until flush with end of tie rod. Do not over-tighten, tie rods should turn freely.

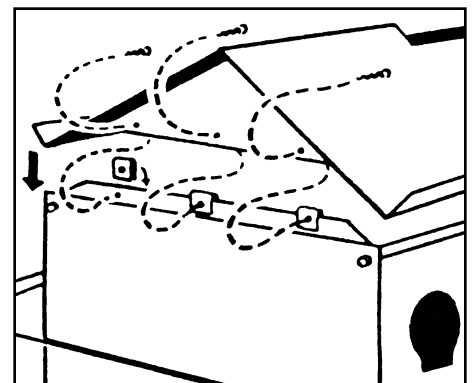
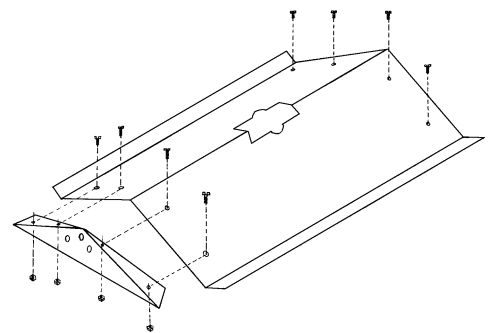
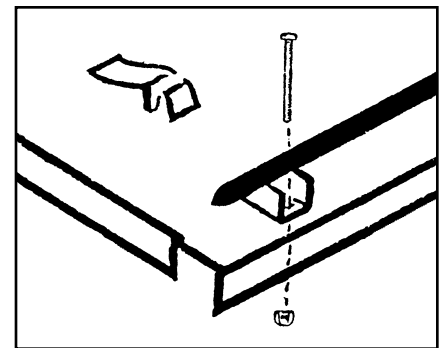
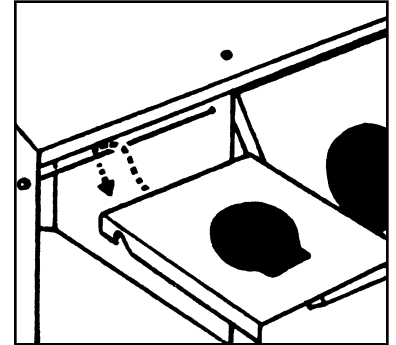
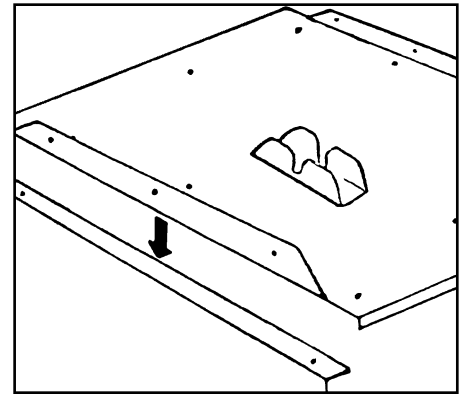
14. Attach 11-1/4" front end rails (11) to floors using two each 6-32x1-1/4 PHMS (28), 6-32 Keps nuts (27) and rail supports (29) per rail.

15. Using eight each 6-32x5/16 PHMS (25) and 6-32 Keps nuts (27), attach two gable ends (13) to roof, as shown. Green side of gable is to outside. It is recommended that all eight screws and nuts should be started loosely, then tightened evenly.

16. Slip six flat C nuts (20) over holes on ceiling edge. Flat side is out.

Attach roof to ceiling as shown, with six #6x3/8 SMS (19). Flat C nuts can be positioned with a small nail if required. Roof is on outside of ceiling on both ends.

Pull rope up through hole in roof.

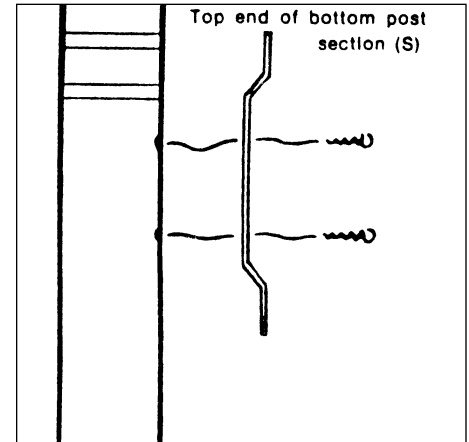
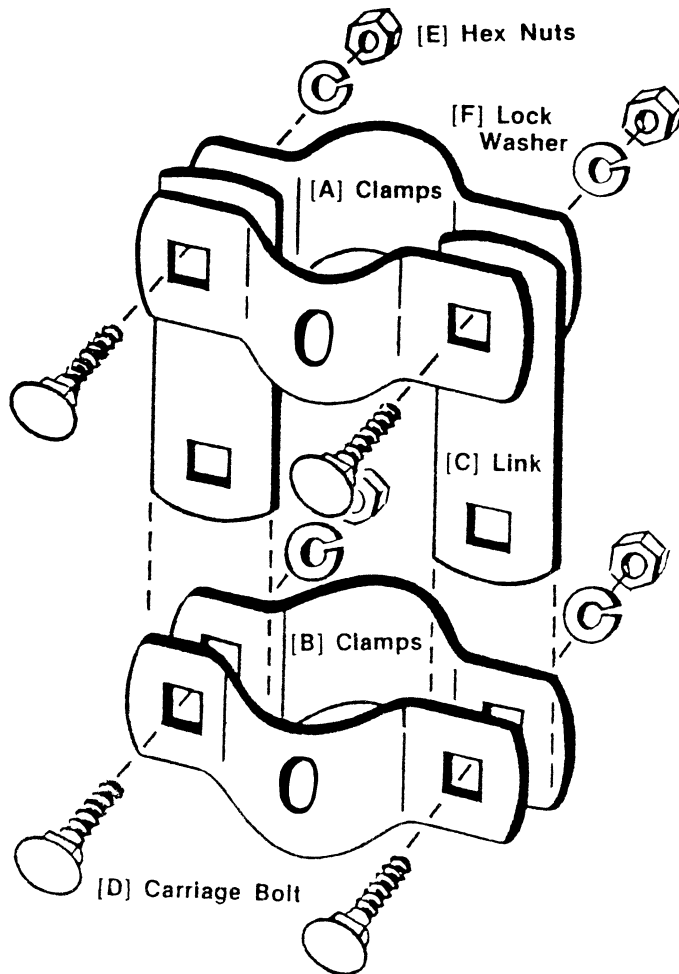


Post Installation

Center section post (R) is packed inside bottom section (S) and MUST be removed before installation of post.

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

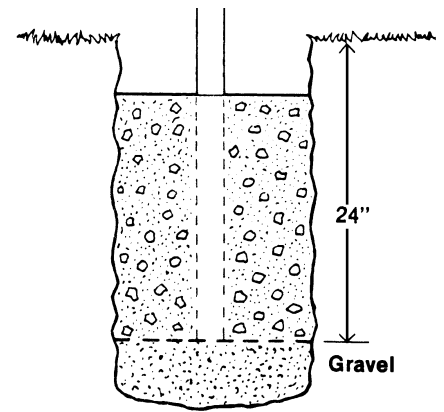
Assemble tube clamps as shown. Place “B” clamps over top end of post (S) and tighten nuts. Leave “A” clamp loose.



NOTE: Center section post (R) is packed inside bottom section (S)

NOTE: If using TGS Mounting Post Ground Socket (included), skip Step 18 and follow instructions included with TGS, then proceed to Step 19.

TGS GROUND SOCKET IS RECOMMENDED FOR EASE OF INSTALLATION. The ground socket is installed in concrete and clamps securely to post. This allows the pole and house to be moved to another location without losing the bottom section of post.

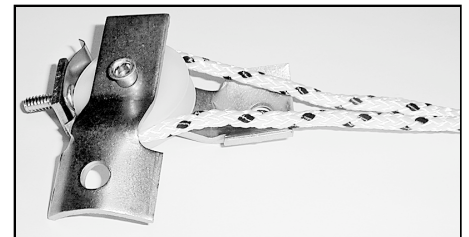


18. Dig hole 8" in diameter and 28" deep. Put 4" of coarse gravel in hole. Place bottom post section in hole and fill with concrete to 3" or 4" below ground level (approximately 90 lbs.). Use guy wires or rope to hold post in vertical position while concrete sets up.

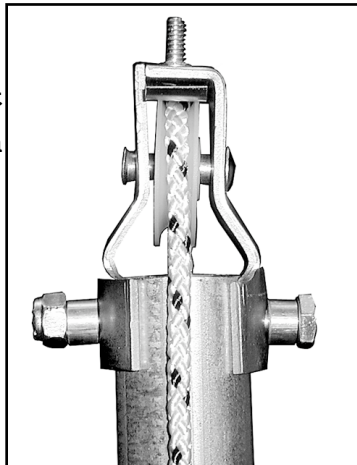
19. Pull end of rope that extends through hole "L-B" in lanyard lock until there is approximately six feet of doubled rope above roof of martin house.



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

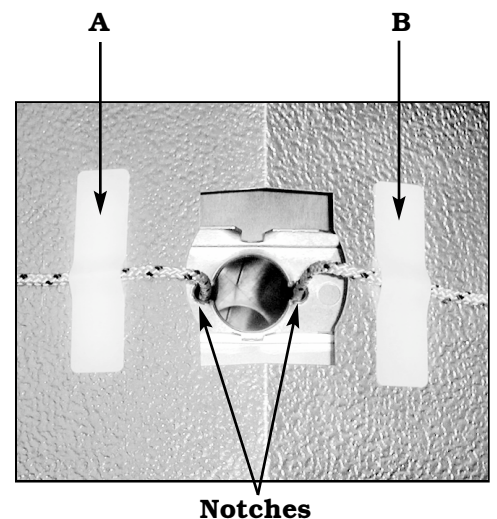


NOTE: Second hole in post section is not used with this model.



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

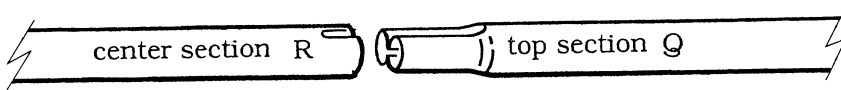
By looking through hole in roof, make sure rope is in notches in ceiling center bracket, and rope is not twisted inside house.



22. Slide crimped end of top post 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 on lanyard lock case, using four #6x3/8" SMS (19).

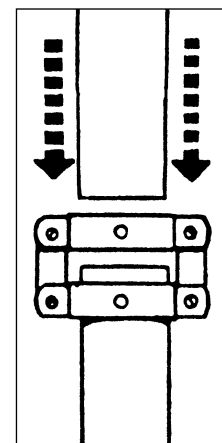
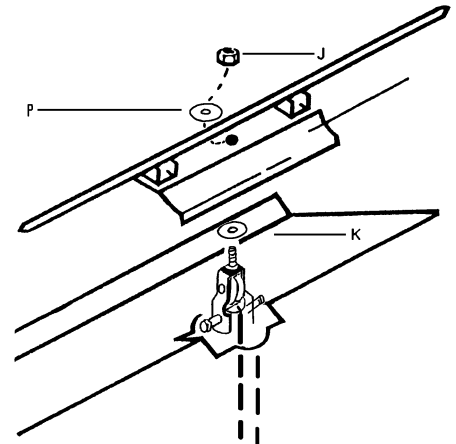
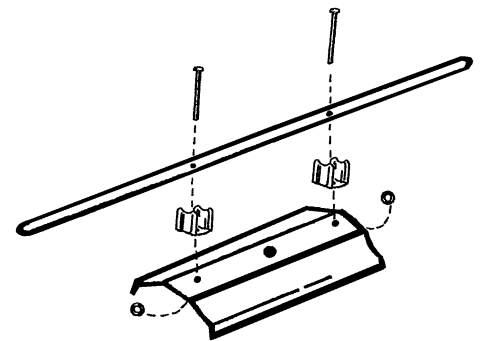
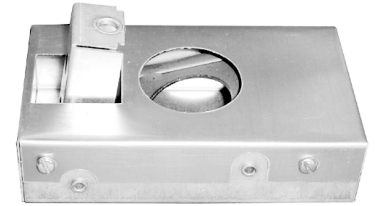
23. Attach center post section (R) to top post section (Q) as shown. Note alignment of crimped end of top section "Q" and grooved end of center section "R".



24. Assemble roof cap (7), perch rod (9) and rail supports (29). Use two each 6-32x1-1/4 PHMS (28) and 6-32 Keps nuts (27) as shown.

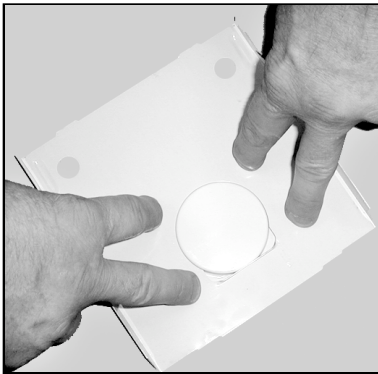
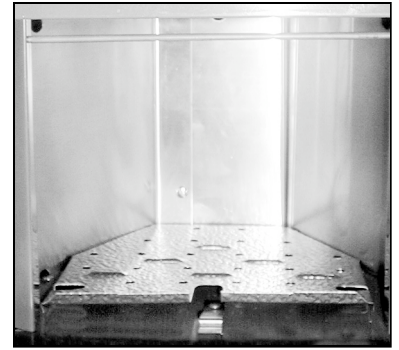
25. Place 3/4 ODx5/16 ID washer (K) over stud at top end of post. Add roof cap with perch to assembly. Using 3/4 ODx3/16 ID washer (P) add to roof cap beneath perch rod as shown. Tighten assembly firmly in place using 10-24 lock nut (J). Note position of pulley in relation to direction of perch rod.

26. To install house and post, two people are required. Run all rope through lanyard lock so rope and house is supported at lanyard lock. Lift two top sections of post and house to vertical position, slide into bottom section post at clamp assembly. Tighten nuts at clamp assembly. Post will be supported by screws holding rope cleat.



27. Floor trays (14) can now be placed in house. Flanges on sides of floor trays go down.

Refer to Page 2 for proper lanyard lock operation, and raising and lowering of house. Secure house in position by wrapping rope around cleat.



28. We suggest to install door stops (15): remove door, place door stop upside down on a flat surface and press door onto the door stop, then rehang door. Use door stops (15) to close house during winter months.

**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.**

For replacement parts or accessories call toll-free 877-833-2478 or 800-255-2692



Nature House products by
ERVA TOOL & MFG CO INC
3100 W GRAND AVE, CHICAGO IL 60622-4324



Phone 800-342-3782

E-mail <ervatool@sbcglobal.net>

Fax 800-342-3781

Nature House — bringing the benefits of nature to your house

Please use product code number when ordering parts for

MSS-8 Martin Safety System

Call 217-833-2393

E-mail <nathouse@adams.net>

HOUSE PARTS PACKED IN THIS BOX

<u>Product</u>		<u>Qty.</u>	
<u>Code</u>	<u>Item</u>	<u>Req.</u>	<u>Description</u>
#			
	1	2	Floors
26200	2	1	Roof
26201	3	1	Ceiling
26202	4	4	Ends
26205	5	8	Doors
25040	6	8	Inside dividers
26206	7	1	Roof cap
26204	8	4	12-3/4" Tie rods
65651	9	1	Roof perch 16-1/8"
26207	10	4	End rails 18"
25050	11	4	Front rails 11-1/4"
25046	13	2	Gable ends
25015	14	8	Floor trays
	15	8	Winter door stops(in paper bag)

PARTS IN 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 ODx5/16 ID washer
35248	L	4	Tape strip
32007	M	1	1/4-20x2-1/2 Bolt
26210	N	2	Brass bushing
726209	O	1	Pulley assembly
24400	P	1	3/4 ODx3/16 ID washer

PARTS IN SMALL FLOOR CLIP BAG (PACKED INSIDE LARGE BAG)

25042	16	8	Floor clips
35260	17	8	6-32x1/4 Pan head machine screw (PHMS)
35265	18	8	6-32 Keps nuts

PARTS IN SMALL PLASTIC BAG (PACKED INSIDE LARGE BAG)

35250	19	10	#6x3/8 SMS
35286	20	6	Flat C nuts
40050	21	4	10-24x1/2 RHMS
35281	22	4	10-24 Hex nuts
35283	23	4	#10 Lock washers
35288	24	*9	6-32 Acorn nut
35263	25	*22	6-32x5/16 PHMS
27300	26	1	Kit wrench (fits items 18, 24, 27)
35252	27	*40	6-32 Keps nut
35270	28	10	6-32x1-1/4 PHMS
25060	29	10	Rail support
35266	30	8	6-32x5/8 PHMS

PARTS PACKED IN BUNDLE

<u>Product</u>		<u>Qty.</u>	
<u>Code #</u>	<u>Item</u>	<u>Req.</u>	<u>Description</u>
10000	T	1	18 ft. rope
26212	U	1	Rope cleat
26211	V	1	Center bracket

PARTS PACKED IN POST BOX

27835	Q	1	1-1/4" x 60-1/2" Post (top section)
27836	R	1	1-1/4" x 50-3/8" Post (center section)
27834	S	1	1-1/2" x 60-1/2" Post (bottom section)