

Instructions and Parts List

M-12K Pioneer martin house

NOTE: This house is designed for mounting on 1-1/4" outside diameter pole.
Model MPQ or economy model DP-16 poles are recommended.

Check parts against this list before starting assembly.
If any shortages are found,
refer to Packing Slip for claim instructions.



HOUSE PARTS PACKED IN THIS BOX

<u>Code#</u>	<u>Qty.</u>	<u>Description</u>
825029	1	Lower floor with rails, clips. bottom plate pre-installed
825030	1	Upper floor with rails, clips pre-installed
24775	1	Roof
24770	1	Ceiling
25035	4	End panel with rail pre-installed
25040	12	Door
24795	4	Large divider
24797	6	Small modified divider
25055	1	Roof perch 22-1/8" long
35278	6	6-32x18-5/8 Tie rod
25065	12	Winter door stops
25075	6	White door stops
		(installed in 6 modified dividers)
26240	12	Floor tray, square

PARTS IN LARGE PLASTIC BAG

24790	4	Brace
20419	2	1-1/4 Tube clamp
27300	1	Wrench
25060	2	Rail support

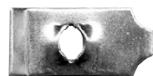
PARTS IN SMALL PLASTIC BAG

35286	6	Flat C nut
40050	4	10-24x1/2 Round head machine screw (RHMS)
40525	4	10-24 Nylon insert nut
35263	32	6-32x5/16 Pan head machine screw (PHMS)
35270	2	6-32x1-1/4 Pan head machine screw (PHMS)
32019	2	1/4-20 Nylon insert nut
35288	12	6-32 Acorn nut
24400	4	3/4 Dia.x3/16 I.D. washer
32035	2	1/4-20x1 Bolt
35252	34	6-32 Keps nut
35250	6	#6x3/8 Sheet metal screw (SMS)

DO NOT TIGHTEN NUTS

UNTIL INSTRUCTED

TO DO SO



35286



40050



40525



35263



35270



32019



35288



24400



32035



35252



35250

IMAGES NOT TO SCALE

NOTES

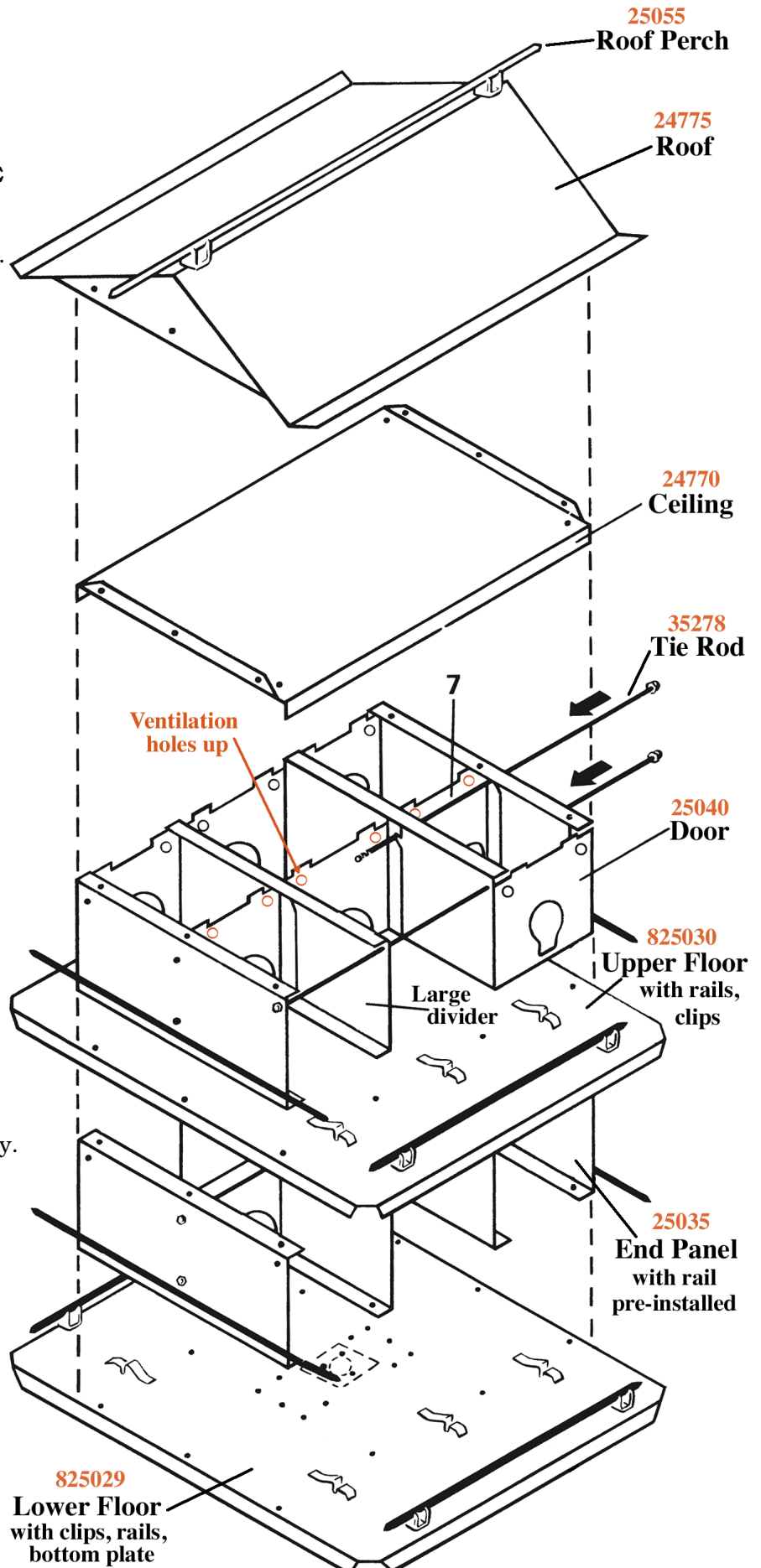
A. READ ALL INSTRUCTIONS BEFORE

STARTING ASSEMBLY. This will acquaint you with each step required.

- **NOTE EXPLODED VIEW OF HOUSE**
- **PLEASE FOLLOW INSTRUCTIONS STEP BY STEP**
- **WIPE PROTECTIVE OILY COATING** from surfaces prior to assembly.
- **BE ALERT FOR SHARP EDGES** particularly end points on aluminum parts.

B. The house is assembled using 6-32x5/16 zinc plated steel PHMS (35263) and 6-32 keps nut (35252); care should be taken to place screws in holes ONLY as specified in the following step-by-step instructions. Use provided wrench (27300) and a small-scale screwdriver for assembly.

C. To fasten upper floor dividers to assembly, use the following: #6x3/8 SMS (35250) and 6-32 Keps nuts (35252) on first floor. Leave nuts slightly loose until assembly is completed. A small nail can be used to align holes if needed.

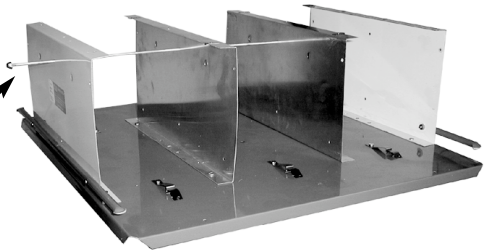


M-12K PIONEER ASSEMBLY INSTRUCTIONS

1. On bottom floor **only**, bolt two white end panels (25035) to floor using two each 6-32x5/16 PHMS (35263) and 6-32 keps nut (35252). **(Bottom floor can be easily identified as the one with the tube end plate riveted to underside.)** Be sure heads of screws are on green side of floor.



2. Bolt two large dividers (24795) to floor using four each 6-32x5/16 PHMS (35263) and 6-32 keps nuts (35252). Be sure to position as shown in photo. The flange with three center holes is down. **Use screws through end holes only.**



3. Thread one 6-32 acorn nut (35288) to one end of tie rod (35278). Push upper tie rod through house as shown and install one acorn nut (35288) on other end. **DO NOT TIGHTEN COMPLETELY AT THIS TIME.**

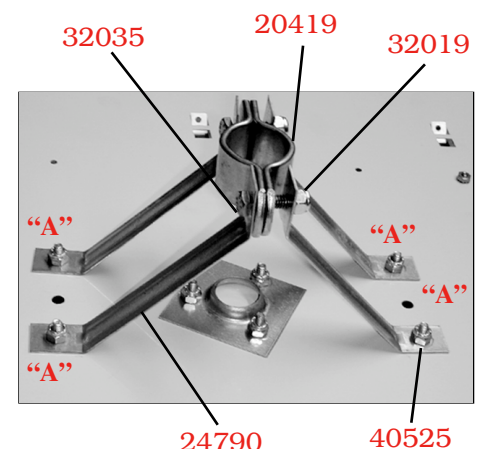
NOTE: When using tie rods, start the acorn nuts and use only two to three turns until later.

4. Use four each 6-32x5/16 PHMS (35263) and 6-32 keps nut (35252) to install three small modified dividers (24797) with ventilating holes up. Install white door stop (25075) in modified divider (24797) to keep regular 6"x6" compartment size. Install outside small dividers first and center one last. (To increase compartment size to 6"x12", leave out white door stop (25075). **See page 5 for details.**)



5. On bottom side of floor, fasten four braces (24790), two 1-1/4 tube clamps (20419), two 1/4-20x1 bolts (32035) and two 1/4-20 nylon insert nuts (32019) making assembly as shown. **DO NOT TIGHTEN COMPLETELY AT THIS TIME.**

Use 3/4x3/16 I.D. washer (24400) under screw head and fasten house through holes in large dividers as shown at point "A". This will require four each 10-24x1/2 RHMS (40050), 10-24 nylon insert nuts (40525) and 3/4x3/16 washer (24400). Screws holding braces to house can now be tightened until snug. The 1/4-20x1 bolts (32035) will be tightened later. **To clear the mounting braces, place assembly over an empty box or a waste basket with first floor up.**



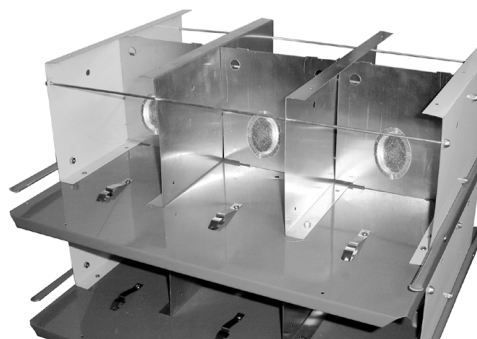
M-12K instructions

6. Place second floor (25030) over bottom floor assembly. Install two end panels (25035) using four each 6-32x5/16 PHMS (35263) and 6-32 keps nuts (35252), fasten through upper end panels, floor and lower end panels.
7. Thread one 6-32 acorn nut (35288) to one end of upper tie rod (35278). Push upper tie rod through one end, two dividers and other end as shown. Install one acorn nut (35288) on other end.

8. Use four each 6-32x5/16 PHMS (35263) and 6-32 keps nuts (35252) to install three small, white, modified dividers (24797) with ventilating holes up. Install white door stop (25075) in modified divider (24797) to keep regular 6"x6" compartment size. Install outside small dividers first and center one last. (To increase compartment size to 6"x12", leave out white door stop (25075). See page 5 for details.)



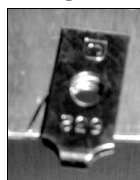
9. At this point, add the four tie rods (35278) per photo, first and second floor by placing four acorn nuts (35288) one on each tie rod end. Insert rod through end and large dividers (24795), placing an acorn nut on other end of each tie rod. These rods are used later for hanging doors.



10. Using two each 6-32x5/16 PHMS (35263) and 6-32 Keps nuts (35252), fasten bottom edge of both dividers through the floor to the top edge of lower dividers.

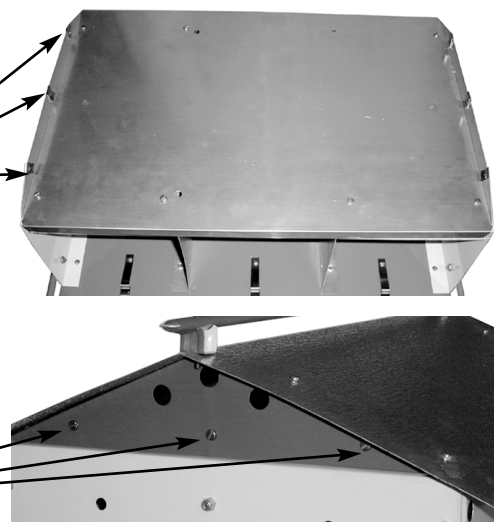
11. Slip six flat C nuts (35286) over three holes on each side of ceiling (24770) edge. **Flat side is out.** Install ceiling on house assembly using eight each PHMS (35263) and 6-32 keps nuts (35252) through end panels (25035) and large dividers (24795).

**At this time go over house,
tightening ALL machine screws
and keps nuts until secure.
Omit adjusting tie rods at present.**



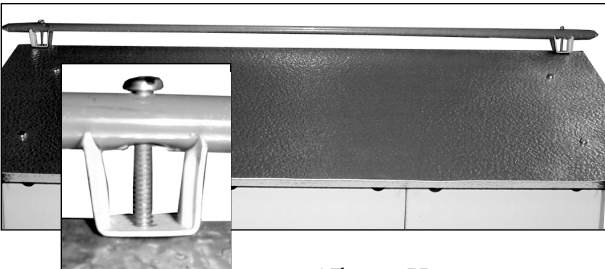
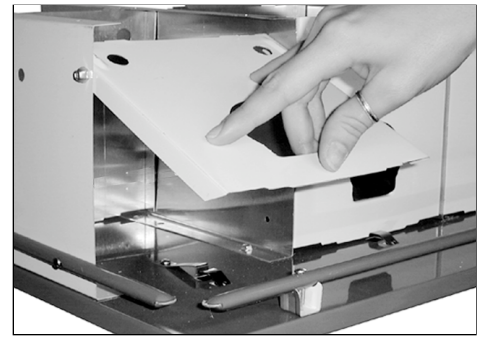
Flat C nuts

12. Attach roof (24775) to ceiling (24770) as shown with six #6 x 3/8 SMS (35250). Flat C nuts (35286) can be positioned with a small nail if required. Roof is on outside of ceiling on both ends.

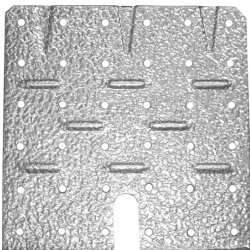




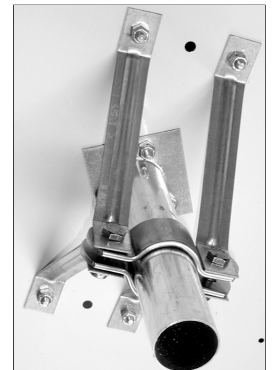
- 13.** Doors (25040) can now be installed on house. Hook doors over tie rods (35278) as shown. Doors should move freely and snap into floor clips when closed. Door tie rods should be adjusted to allow movement without binding.



- 14.** Add roof perch (25055) using two 6-32x1-1/4 PHMS (35270), two rail supports (25060) and two 6-32 keps nuts (35252).

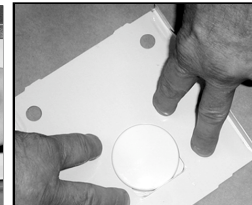
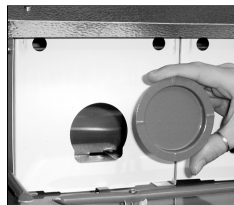


- 15.** House is now ready to install on pole. Slip mounting assembly over pole end into tube "pockets" in tube end plate pre-installed on bottomside of bottom floor. Tighten two 1/4-20x1 bolts (32035) until snug around tube.



- 16.** Install twelve floor trays (26240) in compartments.

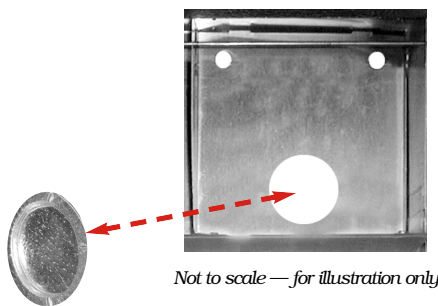
- 17.** Use winter door stops (25065) to close house during winter months. (You may find it easier to remove door, place door stop upside down on flat surface, press door onto door stop, then rehang door.)



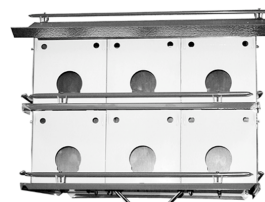
OUR SUPERIOR QUALITY NATURE HOUSE PURPLE MARTIN HOUSES NOW OFFER A CHOICE OF REGULAR 6"x6" COMPARTMENTS OR ENLARGED 6"x12" COMPARTMENTS BY SIMPLY INSTALLING OR REMOVING PLUGS FROM HOUSE DIVIDERS

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.



M-12K



**Regular
12 compartments**



**Converted to
6 compartments**

*Crescent Door



CD-12 (12 pak)
CD-6 (6 pak)

*Blank Door



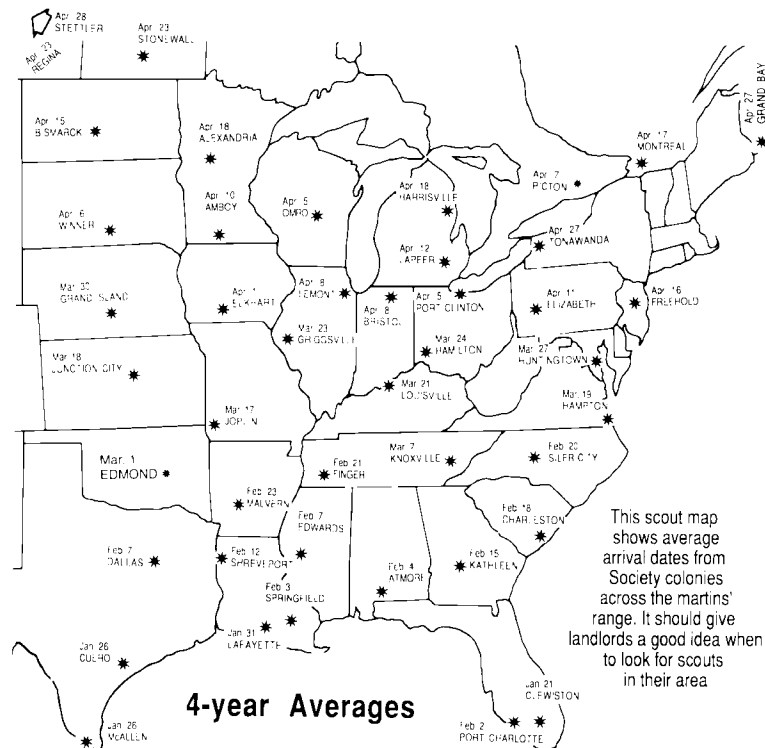
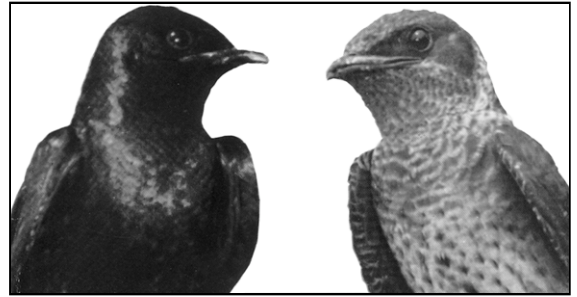
BD-12 (12 pak)
BD-6 (6 pak)

*NOT INCLUDED WITH HOUSE KIT - ORDER SEPARATELY

Call 800-255-2692 to order Crescent Doors (12 pak or 6 pak); Blank Doors (12 pak or 6 pak)

Purple Martin (*Prógne súbis*) facts:

- Adult martins are about 7-1/2 inches long and weigh 1-1/2 to 2 ounces. Wing span is 15 inches. They are the largest of the swallow family.
- Mature males are glossy iridescent blue-black all over. Females and immature martins (both male and female) are blue-black on top of head and back, gray on chin, breast and abdomen.
- Purple martins are entirely dependent on flying insects for food.
- Only bird species in the world relying almost totally upon man for nesting sites.
- Prefer nesting in specially built apartment buildings mounted approximately 14 feet off the ground.
- Choosing to nest in the company of other martins, purple martins are “colony nesters”.
- Martins are loyal to their homes; once they have nested successfully at a site, they usually return year after year. Young fledged from the colony site will return to the same vicinity the next year.
- Aptly termed “semi-domesticated”, martins show a marked preference for nesting near human activity.
- Martins have been clocked flying more than 40 miles per hour.
- Their beautiful song, not easily described, is a favorite bird song of their enthusiasts.
- Martin houses should have a 2-1/8” entrance hole one-inch off the floor.



- Houses should be mounted in the open, at least 30-40 feet from anything as tall as the house, but placed within 100 feet of human activity.
- The oldest documented purple martin lived more than 13 years.
- Martins are “neotropical migrants,” wintering in South America (chiefly in Brazil), then migrate to North America (most states east of the Rockies, lower parts of Canada) to nest.
- They typically spend around five months in their North American nesting grounds, leaving four months for migration both ways.
- Once martins arrive in full (2-4 weeks from scout's arrival) they begin nest building; lay 4-5 eggs that hatch in about 15 days. Purple martin babies normally take 28 days to fledge (from hatching to flying).

For replacement parts or accessories call toll-free 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