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MOBILE HOME INSTALLATION FOR EXPANDO ROOMS

RECEIVED
DEPT OF ADMINISTRATION
BUILDING CODE DIVISION

(Supplement to Mobile Home Installation Manual)

NOV 23 1983

SKYLINE CORPORATION

Keeping it simple in housing for Living and Leisure

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NOTE: THIS MANUAL IS INTENDED TO INSTRUCT AND TO ASSIST ALREADY QUALIFIED AND PREFERABLY FACTORY-TRAINED PERSONNEL IN PROPER INSTALLATION OF SKYLINE MOBILE HOMES. IT IS NOT INTENDED TO ENABLE SOMEONE UNFAMILIAR WITH MOBILE HOME INSTALLATION, TO PERFORM THE INSTALLATION.

SETUP SHOULD BE DONE ONLY BY QUALIFIED AND PREFERABLY FACTORY TRAINED PEOPLE. WHOEVER DOES THE SETUP SHOULD GUARANTEE THEIR WORK IN WRITING FOR A REASONABLE TIME AND SHOULD, IF NECESSARY, AGREE TO RELEVEL THE HOME WITHIN 90 DAYS AFTER THE INITIAL SETUP.

The technical content of this Installation Manual has been reviewed by Underwriters' Laboratories, Inc. and found to be in accordance with the Federal Mobile Home Construction and Safety Standard.

REVIEWED BY ENGINEERING DEPT.
ISSUED BY FOLLOW-UP SERVICES DEPT.

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UNDERWRITERS'
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TIP-OUT ROOM FIELD INSTALLATION

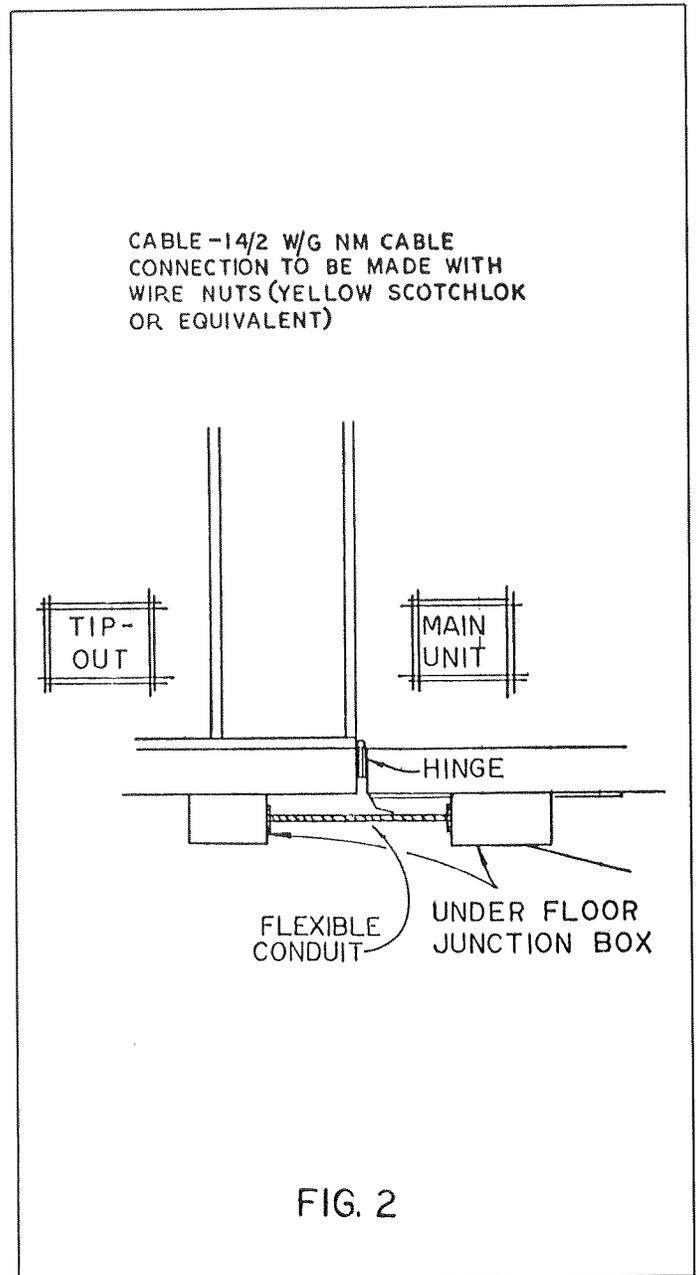
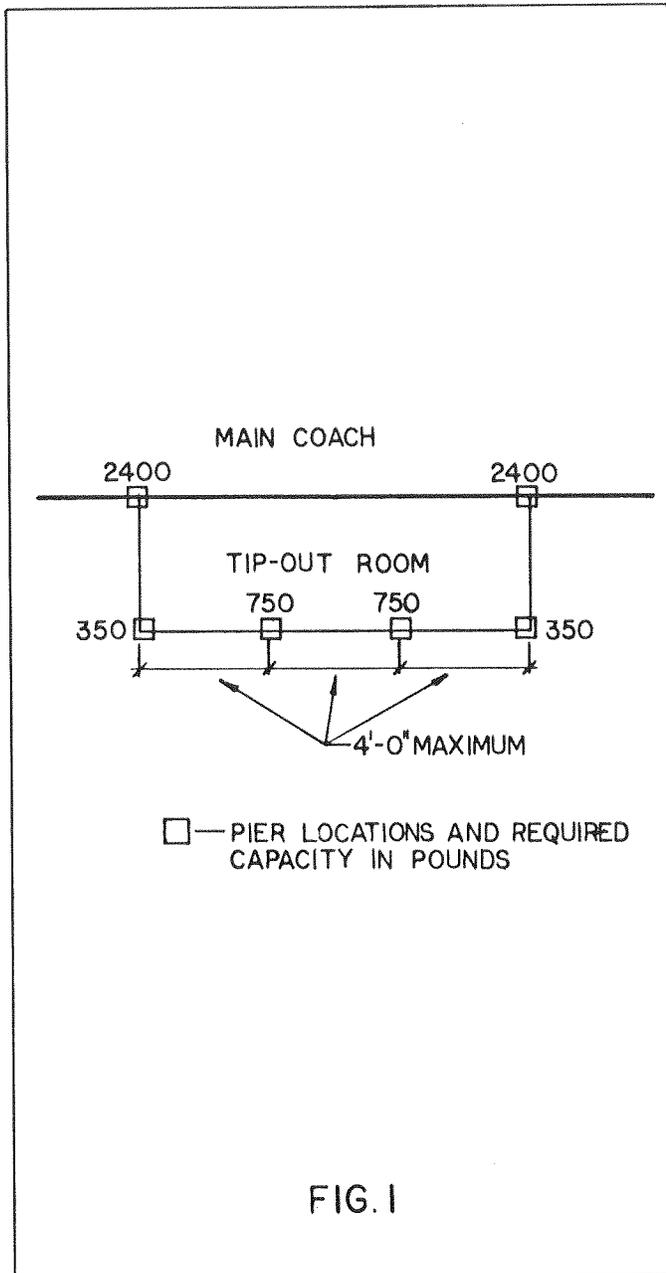
The home and factory tip-out assembly was designed as a unit; thus, satisfactory performance of both is contingent on correct setup procedure as follows:

THE HOME MUST BE IN ITS FINAL LEVEL POSITION WITH ALL PIER SUPPORTS AND TIE-DOWNS IN PLACE PRIOR TO TIP-OUT INSTALLATION.

1. Position and install piers and footings (See Fig. 1). The pier loads indicated are for a maximum roof live load of 30 P.S.F.
2. Carefully lower tip-out onto piers and level unit by adjusting height of outer piers.

NOTE: AS THE HOME MAIN FLOOR HAS BEEN LEVELED, DO NOT ATTEMPT TO LEVEL TIP-OUT FLOOR BY JACKING UP MAIN HOME FLOOR.

3. Secure inside prefinished facia to exterior wall of main unit with provided screws at pre-drilled holes in facia. Cap screw holes with provided decorator plugs.
4. Fill gaps between main unit and tip-out framing on outside with provided fiberglass insulation on both the sides and the top.
5. Install roof and sidewall flashing as per Figure 8 (Refer to Single Wide Roll-out Room Field Installation Steps 14 through 18 for general requirements).
6. Connect tip-out room electrical circuit into main electrical system (Refer to Fig. 2).
7. If this home is required to be tied down, refer to page 9 for expando room anchoring requirements.



SINGLE FLOOR ROLL-OUT ROOM INSTALLATION

The home and the factory expando rooms (roll-out) were designed as a unit; thus, satisfactory performance of both is contingent on *correct* setup procedure as follows:

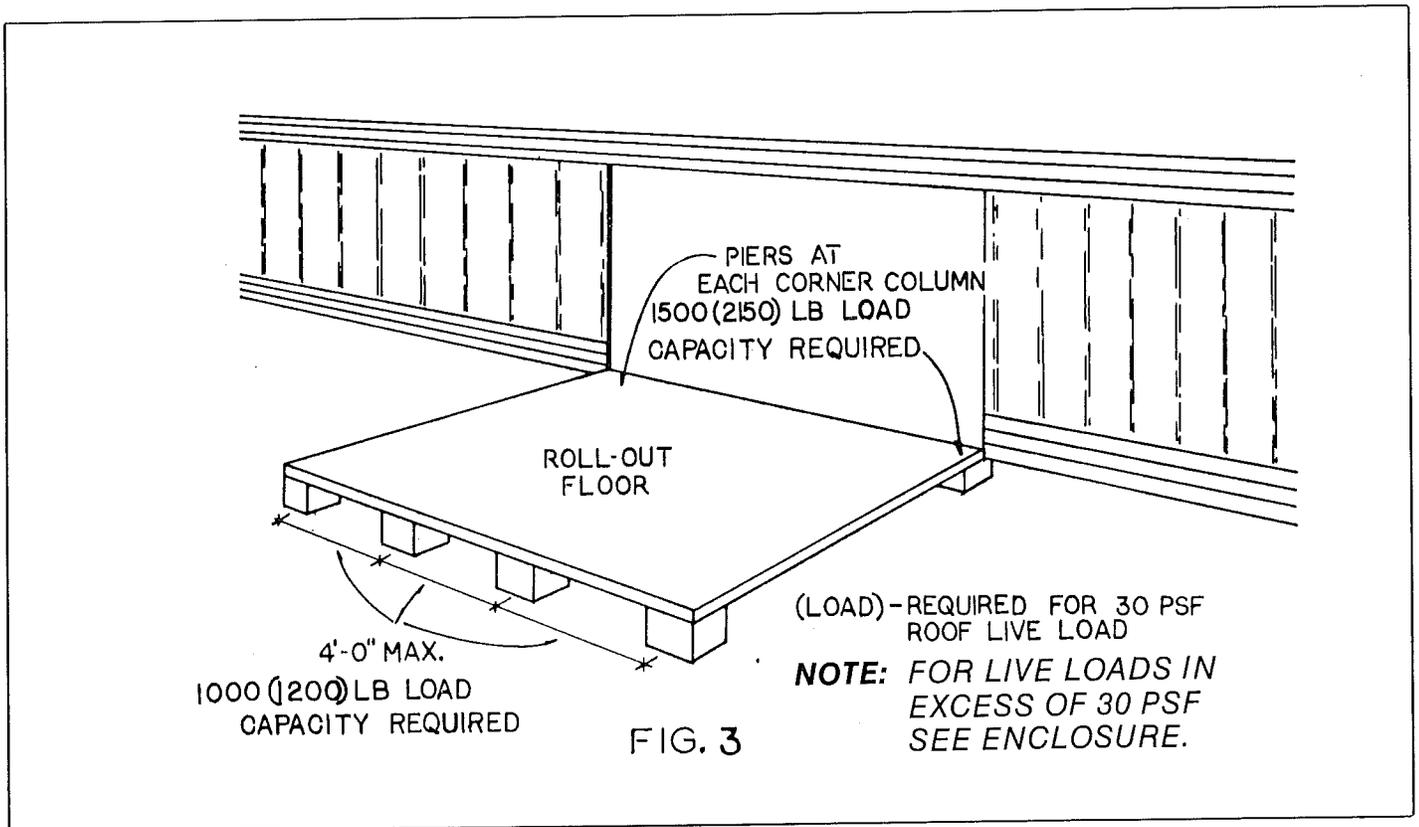
THE HOME MUST BE IN ITS FINAL LEVEL POSITION WITH ALL PIER SUPPORTS AND TIE-DOWNS IN PLACE PRIOR TO ROLL-OUT INSTALLATION

1. Install footings and piers below columns at each side of roll-out (See Fig. 3); pier installation procedures are the same as for the main "I"-beams. Do not jack the columns as the main floor should be in a level position at this point.

2. Place temporary piers to hold the floor in a level position when it is lowered.
3. Remove shipping supports and lower roll-out floor.

CAUTION: THE FLOOR ASSEMBLY WEIGHS APPROXIMATELY 400 POUNDS. Do not allow outer edge of roll-out floor to drop lower than main home floor as this may spring the hinge.

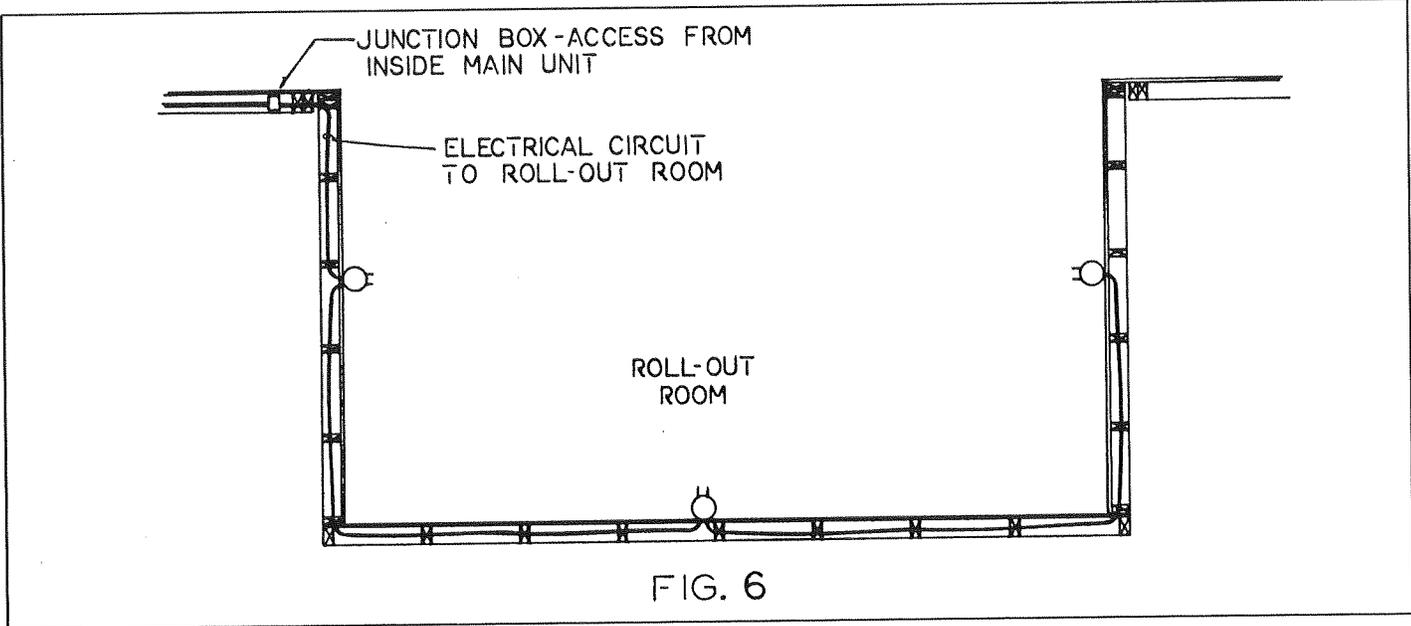
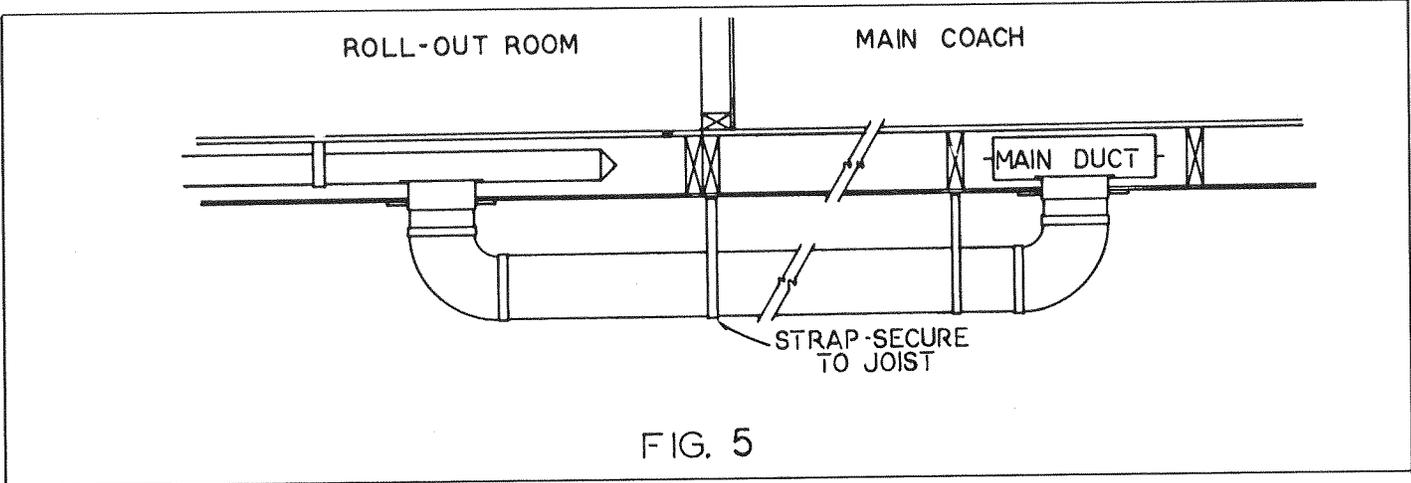
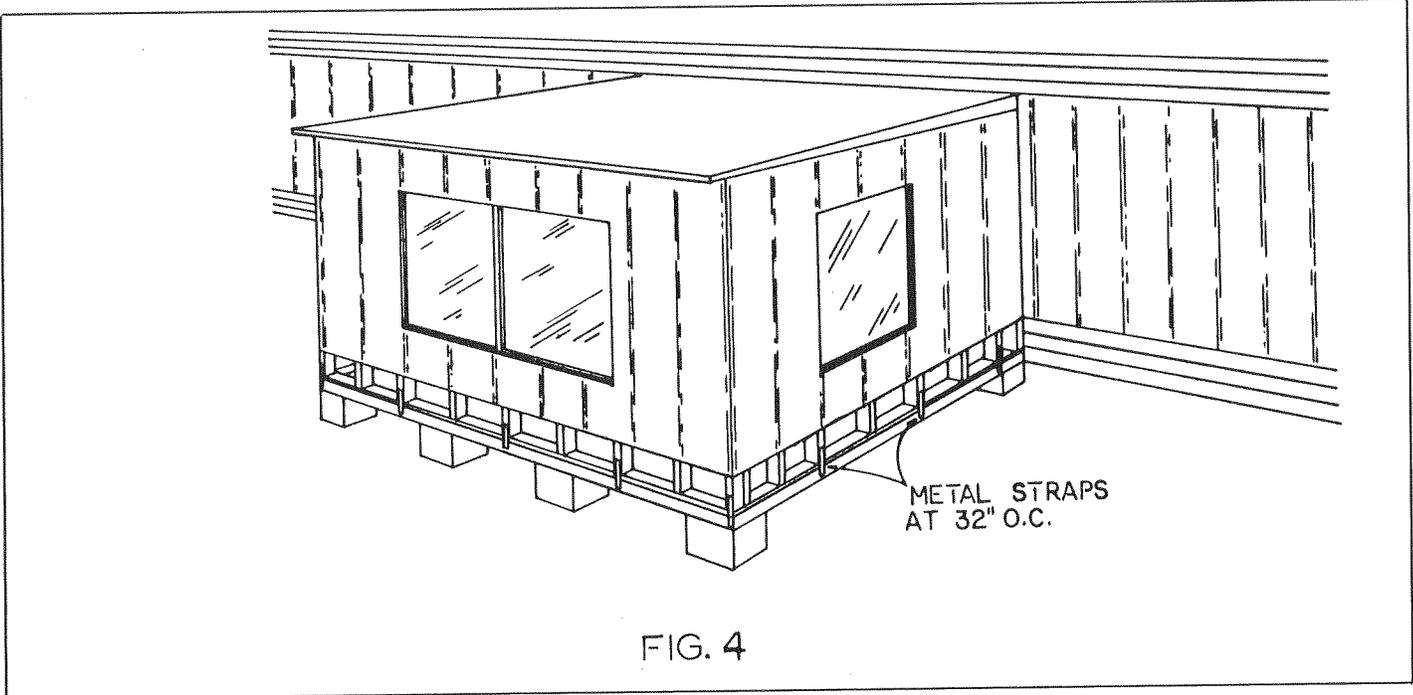
4. Install the footings and piers at the roll-out floor's outer edge (See Fig. 3). The indicated pier loads are for 20 and 30 P.S.F. roof live load.



5. Level the floor by adjusting the height of the outer edge only; do not adjust the height of the floor at the junction to the main floor.
6. Pull roll-out room onto floor being careful to avoid scraping the walls against the main unit.
7. Square the room with the edges of the floor and nail wall bottom plate to floor with 16d nails or #8 x 2½" screws at 12 inches on center. Attach 1½" x 30 ga. metal straps to wall studs and floor joist with three 6d nails to stud and joist. The metal straps are to be located at every other stud (32 inches on center maximum) (See Fig. 4).

8. Where applicable, install the heating crossover as follows (refer to Fig. 5):
 - a. Install the 6-inch metal duct connector through the bottom of the pull-out room floor. Fasten flange of duct connector to plywood with #6 x ½" screws and bend tabs of connector down inside of duct.
 - b. Install the 6 inch flexible insulated crossover duct.
 - c. Install the support strap and tape all joints.
9. Connect roll-out room electric circuit into main electrical system (Refer to Fig. 6).

SINGLE FLOOR ROLL-OUT ROOM INSTALLATION (Cont'd)



SINGLE FLOOR ROLL-OUT ROOM INSTALLATION (Cont'd)

- a. Feed wire through metal wire protectors and into junction box in main wall.
 - b. Cut wires to length, allowing 4 inches of wire to extend from junction box. Staple wire to stud within 8 inches of junction box using approved staples.
 - c. Remove wire nuts from wires in junction box; connect wires together (black to black, white to white, and ground to ground) with wire nuts.
 - d. Push wires into box and replace cover.
10. Secure interior plywood header to home header using #8 × 2" screws in predrilled holes. (Not required on models with Cathedral Ceilings).
 11. Install provided insulation in the gap between roll-out room and coach main wall (sides and top).
 12. Apply ¼" bead of tube caulking to corner stud joints and to wall plate to floor joint.
 13. Starting at one corner, apply bottom starter to roll-out room making sure bottom starter is aligned with bottom starter of main unit (See Fig. 7).
 14. Install the 20" high vertical metal to roll-out room by slipping top edge under transition cap and resting bottom edge on the ledge of bottom starter. Secure vertical at bottom with #6 × 1" wood screws at 8" O.C.
 15. Place the 6" × 6" × 93" aluminum inside corner into place with the bottom edge resting on the bottom starter ledge. Trim away portion of corner that extends above Expando roof line (See Fig. 8).
 16. While corner is still in position mark the points where the corner rests against the Expando top cap and transition cap. Remove inside corner, slit face and ledge of Expando top cap and transition cap at points marked, and flatten slit portion against the vertical metal.
 17. Apply a continuous piece of ¾" wide caulking tape on the back of each leg of inside corner and fasten each leg (through caulking and into backer plate located in the walls) with #6 × 1" wood screws at 12" O.C.
 18. Place close-off top starter on Expando roof with 5½" leg against main unit between mansard end caps and 5" leg against Expando roof. Mark the 5" leg at both ends where it extends beyond the Expando roof. Starting at each end, slit along bend line to the point marked on 5" leg (See Fig. 8).
 19. Remove close-off top starter and apply a continuous piece of ¾" caulking tape on the back side of the 5" leg and at each end of the 5½" leg. Slip the top edge of the 5½" leg under the top starter top cap of the main unit. Bend tab at each end of 5" leg over leg of inside corner against Expando. Trim tab length to be aligned with bottom of main unit mansard and secure in place. Fasten 5" leg to the Expando roof (through caulking and into backer plate below roof metal) with #6 × 1" wood screws at 8" O.C.
- NOTE: IT IS VITAL THAT THE FLASHING AND CAULKING BE APPLIED PROPERLY TO AVOID LEAK PROBLEMS.**
20. Measure, cut and install paneling to close interior wall above and at sides of Expando. Install provided edge and corner wall trim.
- If the home is to be tied down refer to page 9 for expando room anchoring requirements.

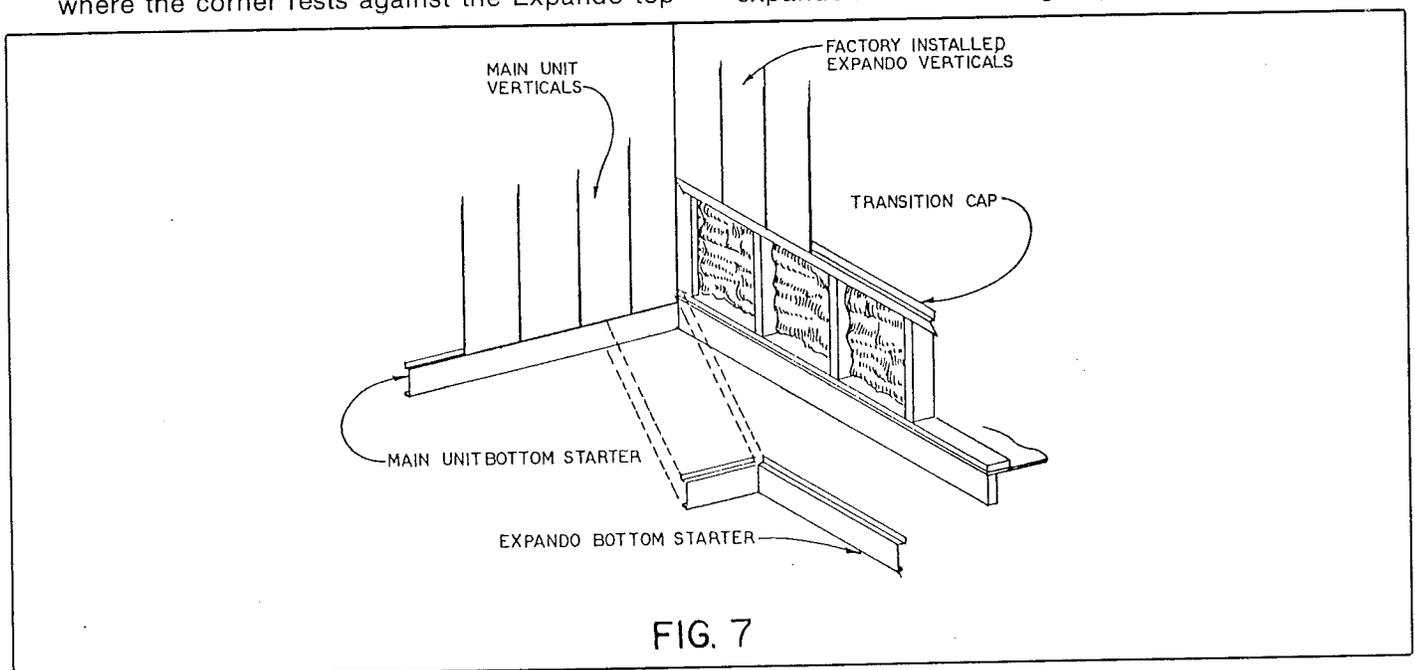
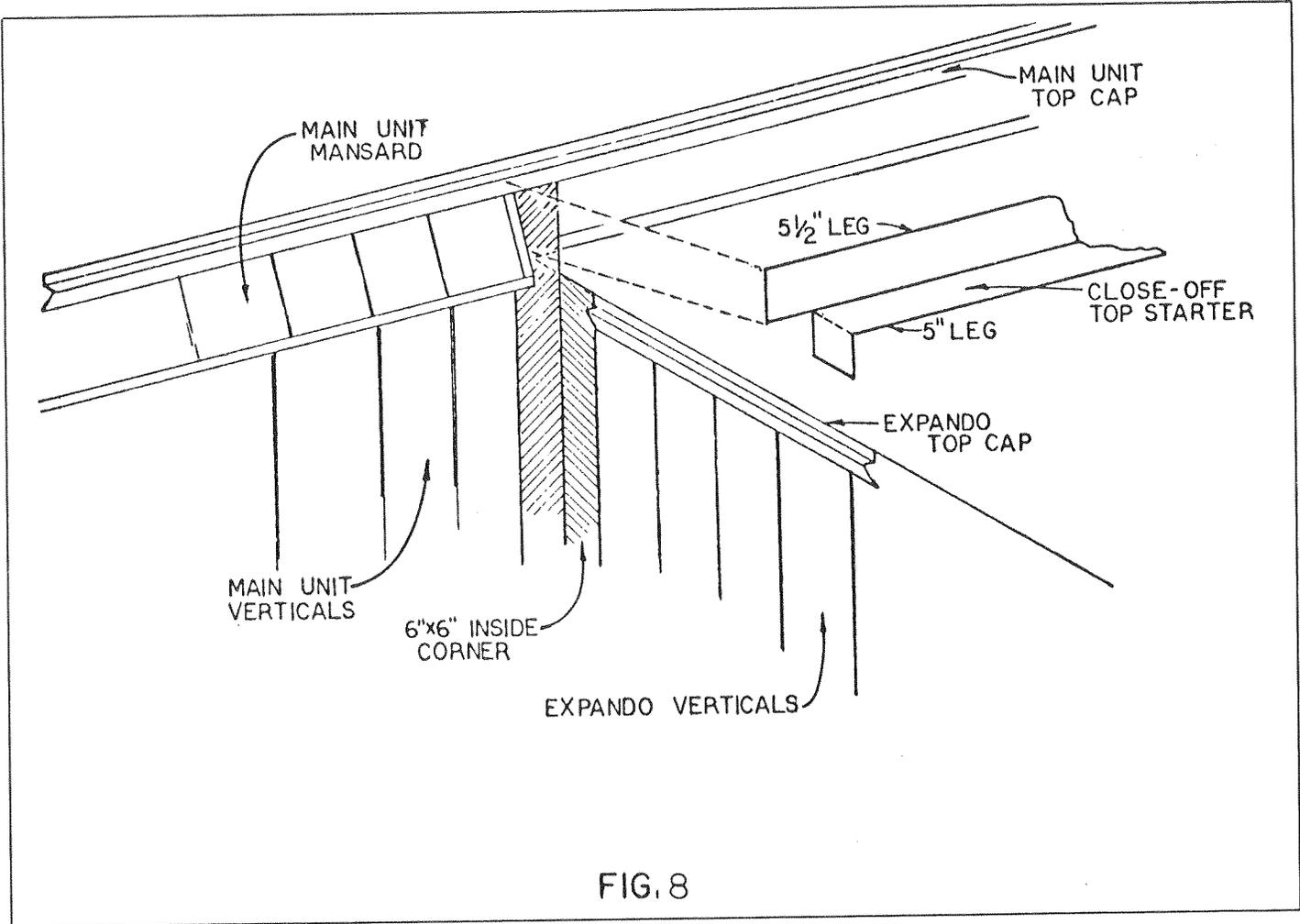


FIG. 7

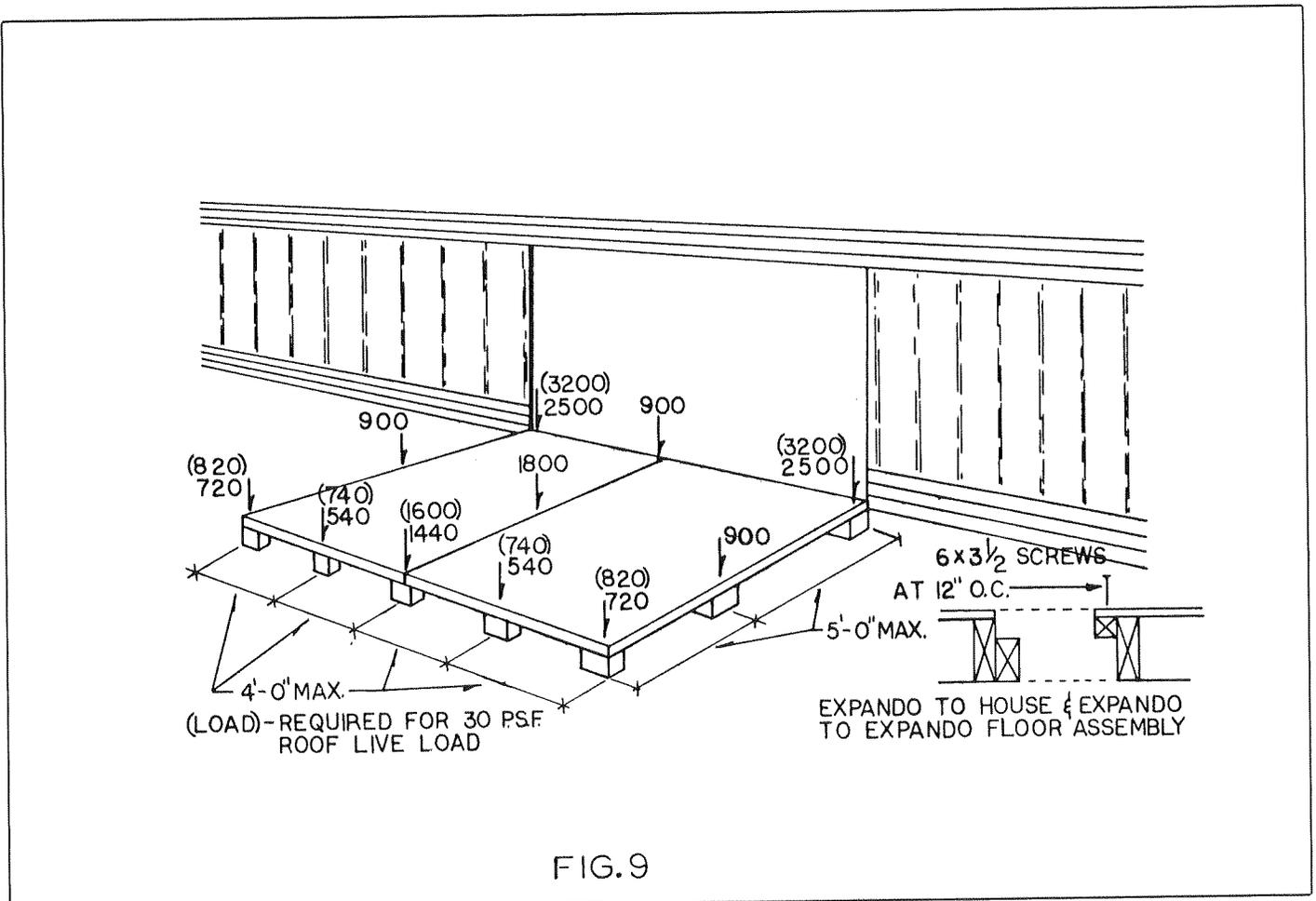
SINGLE FLOOR ROLL-OUT ROOM INSTALLATION (Cont'd)



SPLIT FLOOR ROLL-OUT ROOM INSTALLATION

The home and the expando room (roll-out) were designed as a unit; thus, satisfactory performance of both units under the design loads is contingent on correct setup procedures as follows:

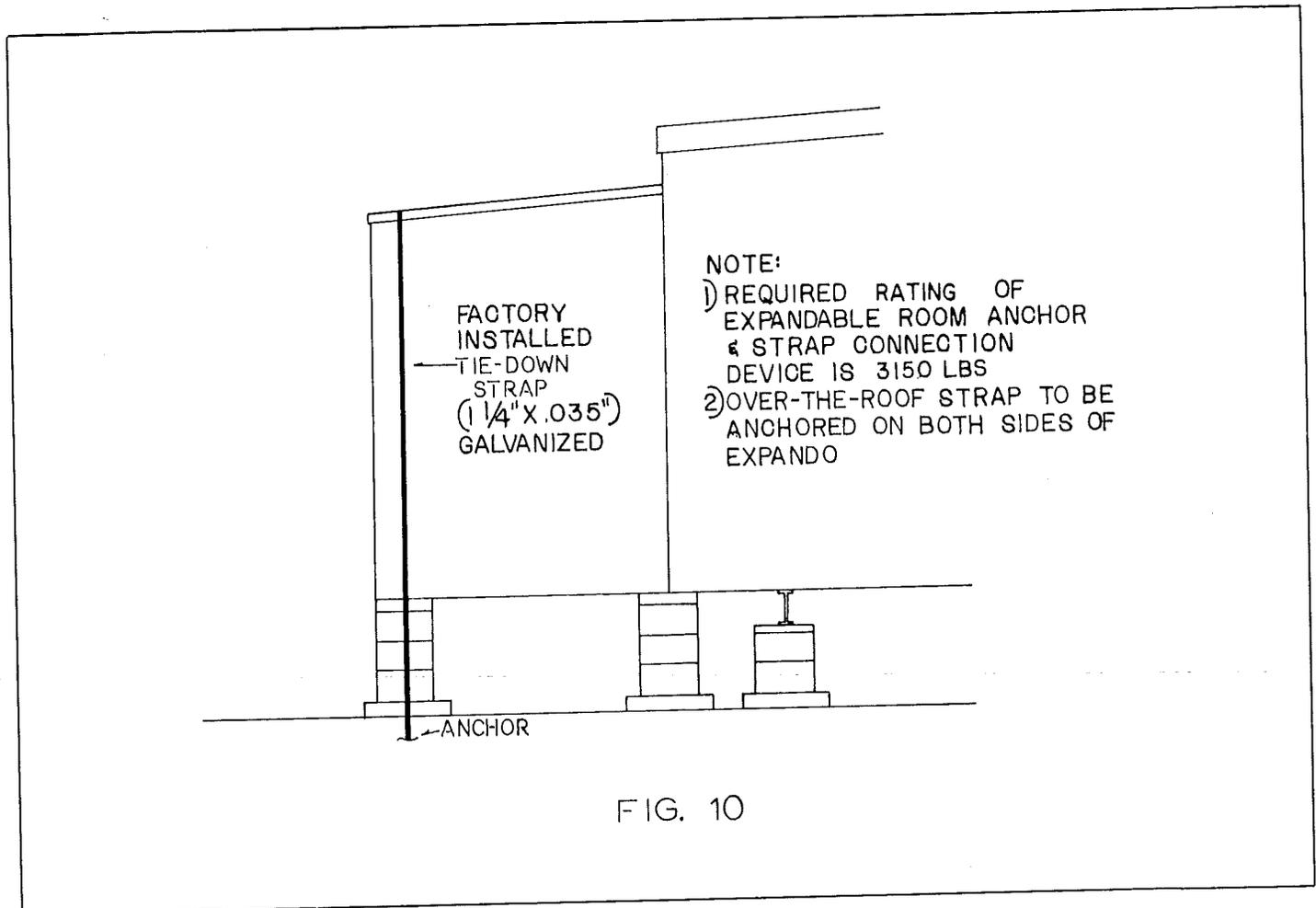
1. Remove expando floor units (2) from home prior to adjoining of home units.
2. Complete double wide home alignment and joining procedure. THE HOME MUST BE IN ITS FINAL LEVEL POSITION WITH ALL PIER SUPPORTS AND TIE-DOWNS (IF REQUIRED) IN PLACE PRIOR TO ROLL-OUT INSTALLATION.
3. Install footings and piers for roll-out in accordance with Figure 9. The indicated pier loads are 20 and 30 P.S.F. roof live load. DO NOT JACK THE MAIN COLUMNS AT THE COACH SIDE-WALL OPENING, AS THE MAIN FLOOR SHOULD BE IN A LEVEL POSITION AT THIS POINT.
4. Position expando floor units (2) on piers. Secure abutting floor ledges using #6 × 3½" screws at 12" O.C. applied from top side of floor. See Figure 9.
5. Check level of floor and adjust wherever required.
6. Pull roll-out room onto floor with care to avoid scraping the walls.
7. Square the room with the edges of the floor. Fasten wall bottom plate to perimeter joist with #6 × 2½" screws or 16d nails at 12 inches on center. Bend down and attach each metal strap to floor joist with three 6d nails (See Fig. 4).
8. Connect roll-out room electric circuit per Fig. 6 (refer to single wide roll-out room Field Installation step 9).
9. Secure interior plywood header to home header using #10 × 2" screws in predrilled holes.
10. Install provided insulation in the gap between roll-out room and coach main wall (sides and top).
11. Install roof and sidewall flashing as per Figs. 7 and 8 (refer to single wide roll-out room Field Installation Steps 12 through 18 for general requirements).
12. Measure, cut and install paneling to close interior wall above and at sides of expando. Install provided edge and corner wall trim.
13. Install floor covering.
14. If this home is required to be tied down, refer to page 9 for expando room anchoring requirements.



EXPANDO ROOM ANCHORAGE

If the home is required to be tied down, follow the procedure below.

Anchor the expandable room to ground anchors using the provided over-the-roof strap. The tie-down illustrated in Fig. 10 is suitable for 15 P.S.F. or 25 P.S.F. wind load areas.



SLIDING GLASS DOOR INSTALLATION

For some expandables, it is necessary to field install a sliding glass door. If your door has been shipped uninstalled, complete the home support and structural assembly instructions in accordance with this manual. Then proceed with the door installation as follows:

1. Carefully unpack the door, caulking and door manufacturer's instructions.
2. Cut and remove the wall bottom plate from the door opening.
3. Install and adjust the door in accordance with the manufacturer's instructions, checking as you go along that caulking is applied in a workmanlike manner to the required joints.

SKYLINE CORPORATION
CORPORATE OFFICES / 2520 BY-PASS ROAD
ELKHART, INDIANA 46514

