

SETTING HOUSE TRUSSES AND FASCIA

MATERIALS:

Trusses
Fascia material 2 x 6-14/16
Power, chords
Circular saws
Loose 8d and 16d nails
ETC

PREPARATION:

Long exterior side walls straightened with dry string line, and **BRACED FIRMLY**.

NOTE: VERIFY the width of the house at the TOP OF THE FRONT and REAR corners from **outside** of FRAMING to **outside** of FRAMING.

Take measurements across the house at 2 or 3 points BETWEEN the FRONT and REAR.

Compare the numbers, **THEY MUST MATCH. IF NOT**, adjust the GARAGE wall, as needed, and RE-brace securely with 2 x 4's.

NOTE: Run a dry string line ACROSS the house, from top of wall to top of wall.

Insure the tops of the interior walls are **BELOW** the string line.

IF NOT, STOP and make necessary adjustments, ie hit the top of walls with a sledge hammer to remove gaps between studs and bottom plates or lower the basement beam.

If this does not fix the problem, **STOP and get the House Leader/HFH Site Supervisor**.

IMPORTANT STEP:

SET UP A CUTTING STATION: Set up cutting station with 2 saw horses, power and a circular saw. You will be making special OSB cuts used for setting trusses, fascia and sheeting the roof.

Cut 1: Stack 6 sheets of OSB on the saw horses. Align the sheets and nail them together for the cut. They will be RIPPED to 23-3/4" and used for Row 3 of the HOUSE roof.

NOTE: USE A RIP OF OSB, WITH A FACTORY EDGE, TO MAKE THE CUT EDGE = FACTORY EDGE.

Cut 2: stack 12 sheets of OSB on the saw horses and Rip to 31-1/2". This will be the top row of HOUSE roof sheeting.

Cut 3: Take the 16 1/2" leftover from **Cut 2** and RIP to 8"+-. These will be used for the Truss Tail insulation backers. They will be nailed to the truss tails as the trusses are set.

Cut 4: Cut 24 pieces of OSB, 2" wide by 8" high.

They will be used **IF/WHEN** the truss heels do not flush with the outside wall framing. They will be nailed on BEFORE the insulation dams are installed.

TRUSS LAYOUT:

The truss layout, marked clearly on the top plate, MUST START AT THE FRONT BEDROOM WALL.



Complete this step as soon as possible after the exterior walls are raised to avoid having to work around interior walls.

LAYOUT:

IF WALL # 20 (front bedroom wall) IS **NOT SET:**

Locate the layout line that is the FRONT EDGE of wall # 20, the Front Bedroom wall, opposite the garage.

Plumb UP the exterior wall to the top plate and mark.

On the same wall, measure from the FRONT corner, **against the gable truss, to the FRONT SIDE of the Bedroom wall (approx 166 1/2")**.

This point must be transferred to the opposite exterior wall (about the center of the garage/hse entry door). This will be the starting point for the layout on the garage wall.

IF WALL # 20 (front bedroom wall) IS SET:

CHECK FOR PLUMB. If OK, continue. If not, STOP AND FIX.

Measure from the FRONT EDGE of wall # 20 to the inside of the Gable Truss (Approx 166 1/2").

Transfer this point to the opposite exterior wall (about the center of the garage/hse entry door) by measuring between the same points on the garage wall.

This is the starting point of the Truss layout.

CRITICAL STEP: The 24 OC truss layout goes to the FRONT and REAR from this point. Maintain ALL the "X's" on the STREET (front) side of the layout line.



CONTINUING PREP:

CRITICAL STEP: Check for different styles of trusses. The truss ends toward the garage may not have tails. Organize trusses starting from REAR to FRONT of house.

If not already done, place a 16D double-headed nail in the peak of each gable truss.

Attach a dry string line near the top of the nail, 1-1/2" above the peak.

Run the line to the opposite gable peak, pull string **TIGHTLY TIGHTLY** and secure to nail.

Truss peaks will be justified to this string line to ensure the proper alignment.

NOTE: THIS IS THE ONLY APPROVED METHOD FOR SETTING TRUSSES.

Place 6- 2 x 4- 14/16 in the front window for rat runs

Check the REAR WALL gable-end truss for plumb. If plumb, continue. IF NOT, adjust as needed.

Make up 2 Truss push sticks, a 2 x 4 about 9' long, with a 16" piece of 2 x 4 nailed to form a "Y" at the top.

Layout 7 - 1 x 4's with 24OC marks, **with 2-8d nails started, 3/4" past the line.**

NOTE: The first 1 x 4 at the rear will have a "set back" because the distance between the gable truss and the first truss is LESS than 24".

Go to the side wall and measure the distance between the Inside of the Gable truss and the Inside of Truss # 1 and use it as the "set back" number. **The numbers should match on opposite sides.**

It may already be on the wall, if the person laying out the trusses knew what they were doing.

SETTING TRUSSES:

Trusses will be pushed up over the outside wall and moved until the heels are sitting on the outside walls.

2 people will walk the middle of the trusses, align the truss peak with the string line and install the "lacers".

2-3 people will be inside the house with "push sticks", to assist in raising the trusses.

2-3 people will be on scaffolding, on EACH wall, to nail the trusses to the top plate with 16d nails, 2 nails on one side and 1 nail on the opposite side.

BRACING TRUSSES:

As each truss is positioned and nailed to the exterior wall plates, brace to the previously installed truss with a 1"X 4" nailer laid out to 24OC. **NOTE: This is temporary bracing.**

RAT RUNS:

After 9-10 trusses have been set, load in 4- 2 x 4-12/14' into **BOTH** sides of the trusses. These are known as "rat runs" and will brace/space the bottom chord of the trusses.

BEDROOM WALL GABLE TRUSS:

A Special Gable Truss will be set over the front bedroom wall (wall # 20). It must be flush with the wall as drywall will continuously cover both walls. **If the truss has no tail on one end, it must be towards the garage.**

CATHEDRAL TRUSSES:

The last Trusses at the front of the house will form the cathedral ceiling in the Living room. **Check that the end with no tail is toward the garage. The last truss toward the front of the house will have a tail.**

The first 2 Cathedral trusses will be set in place. The last 4 or 5 will be temporarily "leaned" against the front gable wall, then moved back and set in place.

GABLE END BRACING:

When all the trusses have been installed, nail a diagonal brace, at least 10' long with about a 40 degree angle on one end, high on the REAR gable truss and attach to as many trusses as possible .

RAT RUNS:

Time permitting, starting at the REAR of the house, nail one end of the 2 x 4 "rat runs" into the gable truss.

Remember the 1st truss from the rear IS NOT 24OC". Use the measurement previously marked on the outside wall to space the first rat run nails. The numbers may not match on opposite sides. Adjust accordingly.

Continue from this point at 24'OC. Nail the "rat run" brace into each truss cord with (2) 16D nails.

ADDITIONAL BRACING:

If trusses will NOT be sheeted the same day, install 16'- 2 x 4 's **diagonally** across the top of the trusses, starting high on the gable truss, w/1- 16d in each truss. Do not "set" the nail for easier removal.

FASCIA BOARD INSTALLATION:

The fascia board is 2" X 6" material in 14'-16' lengths. This board serves several important tasks including:

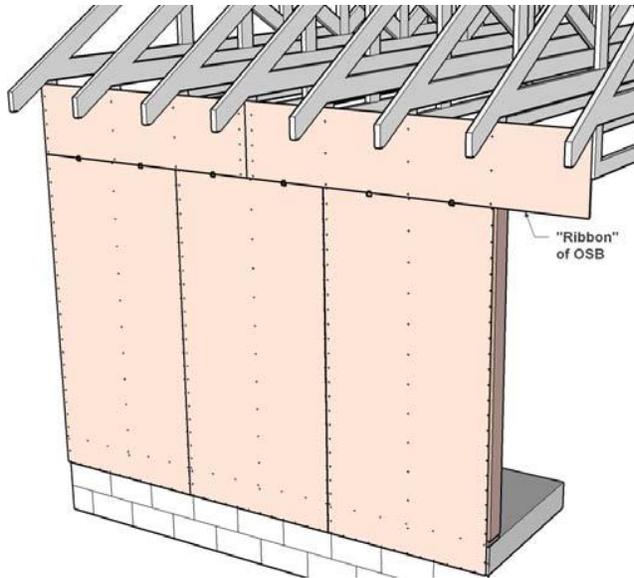
- Tying the truss tails together while maintaining the correct 24" O.C. distance between them
- Providing lateral support for the trusses at their tails
- Providing backing for nailing off the sheathing along the eaves
- Providing a "ledger" for the attaching the outside edge of the soffit material to the framing

PREPARATION:

Trusses must already be set, on layout, and nailed to the top plates.

INSTALLATION:

During this step, pieces of OSB Aprx 8" wide X 8' will be installed at the ends of the Truss Heels to stop insulation from blowing into the soffit.



NOTE: If the truss heel are short of the wall framing, OSB spacers 2" x 8" high will be installed first and nailed to the truss heels.

The 8" X 8' pieces will be nailed to the wall top plate and to the truss heels. **ONLY NAIL THE BOTTOM OF THE OSB IN TO THE WALL TOP PLATES, UNTIL THE TRUSS LAYOUT HAS BEEN CONFIRMED AND TRUSS TAILS NAILED TO THE FASCIA.**

When installing fascia, maintain the 24" OC layout. Do not just nail the board into a truss where they lay. When installing the fascia board, straighten the truss, plumb it and ensure it is on layout.

Crown ALL 2 x 6 that will be used for the fascia.

CROWNING: Sight down the top edge of the board, looking for a "hump" or "dip". The hump is the crown and is marked with a large arrow in the direction of the hump.

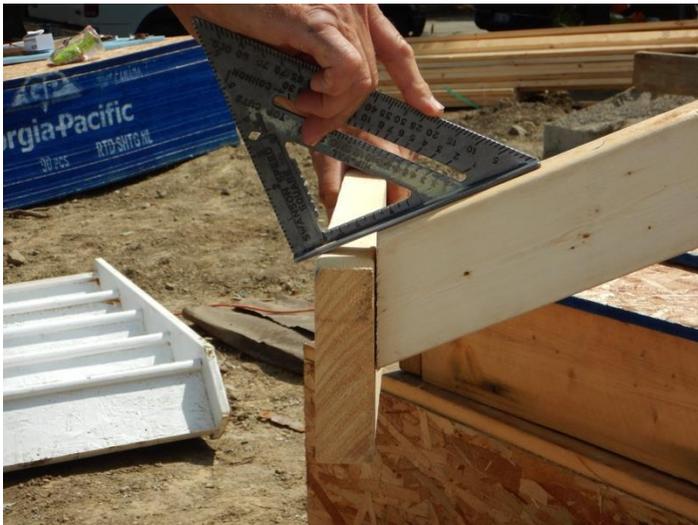
Start the installation **with the Crown UP** and flush with outside corner of the **REAR** gable rack and on plane with top of truss,

Nail with 2 16d's on a slight upward angle, as the truss tail is 4" and the fascia is 5 ½" wide.

The fascia board sections **MUST END BETWEEN 2 TRUSSES**. A piece of 2 x 6 (22 ½ "long) will be used as a backer to attach the next piece of fascia. The backer will be installed flush with the bottom of the fascia with 4-16d nails into **each** piece of fascia.



Using a speed square, set on top of the truss for alignment, progress from tail to tail moving the fascia by lifting or dropping the unattached end. This will keep the fascia on the same slope as the truss tail, before nailing.



NON GARAGE WALL:

Start the fascia install from the **REAR** of the house.

Position the fascia board F1, using your speed square as a guide, and nail into the gable rack and truss # 1.

Pull a 24 OC layout **starting** from truss # 1, **toward the front of the house** and mark on top of fascia. Move the truss as needed so the edge lines up with the layout mark.

Position the fascia with your speed square and nail. Repeat the process to the end of the F1, which **MUST** end **between** 2 trusses.

Layout and nail together the next piece of fascia, F2, and the backer **BEFORE** nailing into the truss tails.

After crowning F2, position it tightly against F1. Nail the spacer in to F1 and nail F2 into the spacer. Continue the 24 OC layout on to F2.

Repeat the process of raising or lowering the fascia and moving the truss and then nailing.

CRITICAL STEP: F3 should **ALWAYS** end between the 2nd and 3rd trusses **BACK** from the front Gable Wall. Cut to fit as needed.

If the porch trusses and gable rack are NOT set, STOP here.

If the front porch trusses and the gable rack are set, measure, cut and install F4.

GARAGE WALL:

Repeat the process on the garage wall,

No fascia is installed on truss tails inside the garage.

HOWEVER, some truss Mfg have been eliminating the tails on Truss ends in the garage. For **SAFETY** purposes, these will added in the field.

Cut 4' pieces of 2 x 4 with a 22.5 degree angle on one end. Cut 1 for each truss inside the garage.

Run a dry/string line from the ends of the last truss with a tail, **FRONT** and **REAR**.

Place the 2 x 4 **against** and **flush with the top** of the truss, with the angled end just touching the string. Nail the tail into the side of the truss with 5- 16d nails.

A short section of Fascia is needed from the front House Gable Rack to the 1st truss tail inside the **front** wall of the garage.

A section is installed from the **rear House** Gable Rack to the 1st truss tail inside the **rear** wall of the garage.

TT 2/10/2015