A Compact Traveling Bedroom "Runlite"

Modern Mechanix How-To-Build-It 1938 Edition FOR REFERENCE ONLY, NOT TO BE USED TO BUILD A TRAILER

"Runlite"—a Compact



Designed for the person who prefers a light portable shelter to a more commodious trailer, this lightweight streamlined modern vehicle is noteworthy for its very low cost and safety at high speeds.

Looking into the "cabin" through the open galley hatch. "Runlite" has ample space for two full length spring mattresses. Below—Body plan dimensioned to scale.

RAILER owners incline to divide into two schools of thought; one group wanting the kind of trailer in which they can, if necessary, live permanently—the other preferring something lighter and more suitable for use on extended trips, such as vacations, where economy and high cruising speeds are of major importance. Runlite has been designed for the latter group.

By placing the wheels quite far aft it has been possible to make this an underslung job, making it directly possible to combine really effective streamlining with marked stability. The weight of the whole trailer being so low, much of the weight is carried by the tongue, a matter of no particular concern in the case of Runlite since it is normal for a load of 150 or even 200 pounds to be distributed on the hitch of all trailers.

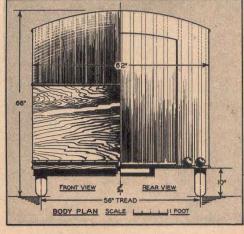
Runlite can actually be towed at a 60 m. p. h. gait without straining any good light car.

Straightforward methods of construction are used in this design. There is practically no welding and absolutely no special machine work to be done. The roof, which at first glance may seem a problem, is actually simpler to construct than that of the average

Another word before starting in on the actual construction work: Comparison will reveal some slight difference between photos and drawings in this article. It is quite unimportant and, as far as that goes, the curves, the width and the over all height may be modified to suit the builder's requirements.

Start with the frame. What few welded joints you will have to make are encountered here. If you lack the proper equipment or experience have the welding done by an expert. The cost will be low and the sense of security a good deal greater.

Use an old Model T Ford frame. At your local junk yard these should be anywhere from 75 cents to \$2.75. Using a hacksaw, cut out a 13½" length on each side 7" from the front end. Saw out the channels to fit and weld at right angles so that the frame now has a 131/2" kick-up as shown in the drawings.



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Traveling Bedroom

An angle iron tie piece 1½"x1½"x¾"is"is welded across the bottom of the frame as shown in the perspective drawing of the frame. At the rear end the rear face of the spring perch is cut off with torch or hacksaw. Into the perch a 2"x4", preferably of white oak, is carefully fitted. This beam should be the full width of the body and its obvious purpose is clearly shown in the drawings. Two more lengths of Ford T frame are used for the trailer tongue and the cross-member to which it is anchored. Joints here may be either by welding or bolting. It will be necessary to cut out the filler piece for the tongue—which is bolted securely to the spring perch as well as to the channel cross piece.

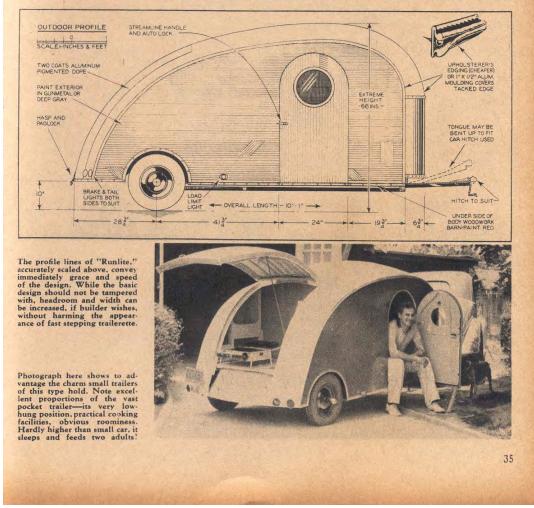
Bolt or weld a standard hitch to end of tongue. The height of hitch can be adjusted by heating tongue and bending upwards.

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Only four leaves of the front spring are used. A shim is put in under the perch clip bottom to compensate for the leaves removed. Second hand Model T steering tie rods are used in the manner shown for radius rods. The ball and socket fixtures for the frame end of the rods are from regular Ford radius rods. They should be welded on. The axle ends of the rods may be attached either by flattening and bolting direct to the wing spring perches, as shown, or drilled clear through the axle and bolted either side. This latter method provides an easy method of aligning the wheels.

20"x4" wheels from a motorcycle pick-up trailer are used. Such wheels fit Model T Ford spindles without change. They cost about \$4.00 each and the tires about the same.

The completed frame, ball hitch, radius rods



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wheels and tires should not cost over \$20.00 with welding included.

The steering tie rod is cut in two, the ends flattened and bolted to the axle as shown. This completes the entire chassis and the rest of the job is straight woodwork (with a little tin work here and there).

Build the floor as a foundation for the body. Second grade Oregon pine flooring, tongued and grooved, is bolted to the chassis frame starting at the rear end and working toward the towing end of the trailer. This flooring should be wide enough to finish 611/2" wide after trimming the sides for straightness. Rabbet the first plank laid to hold the 1/4" bulkhead as shown and cut out where necessary for the spring perch at the towing end. This cut out is later covered with tin-see drawings. Lay a straightedge along the sides and saw off flush.

Next screw in the 1"x2" and 2"x2" stringers to the underside of the flooring as shown in the drawings, allowing the ends to project several inches beyond the floor at the rear. Stanchions No. 3 and the 2"x4" uprights are mortised into these projecting ends and the stringers trimmed off flush as shown in the detail sketches.

The stanchion framing can now be completed. The heels of the stanchions are boxed into the floor and bolted into the 1"x2" edge or side piece. With the main stanchions in the 1/4" plywood or hard Celotex bulkheads can be installed and the boxes for the wheels built

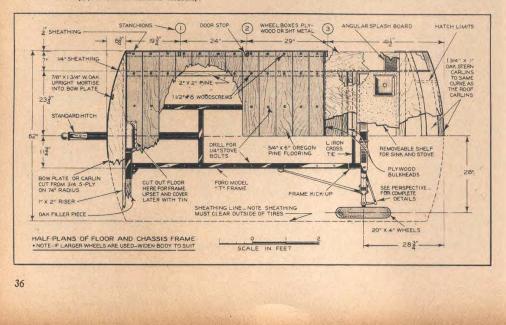
These plan views of the trailer, chassis and floor frame, used in conjunction with indoor profile plans on the following page (and the sectional views of the body), should be studied carefully.

up. Framing for cupboards, water tank, sink and so forth is left until the body has been

Cut out the crown carlins and also the bow plate. Detail drawings give the dimensions and it will be noted that 11 carlins in all are required. Some of these are used for the roof -three being bolted to the main stanchions already installed. The remaining carlins are required for bow and stern, and for the hatch. Install the bow plate in the manner shown. It is cut on a 72" radius, is 34" thick and 634' deep. It is screwed to the riser strip which in turn is bolted to the filler piece in the spring perch.

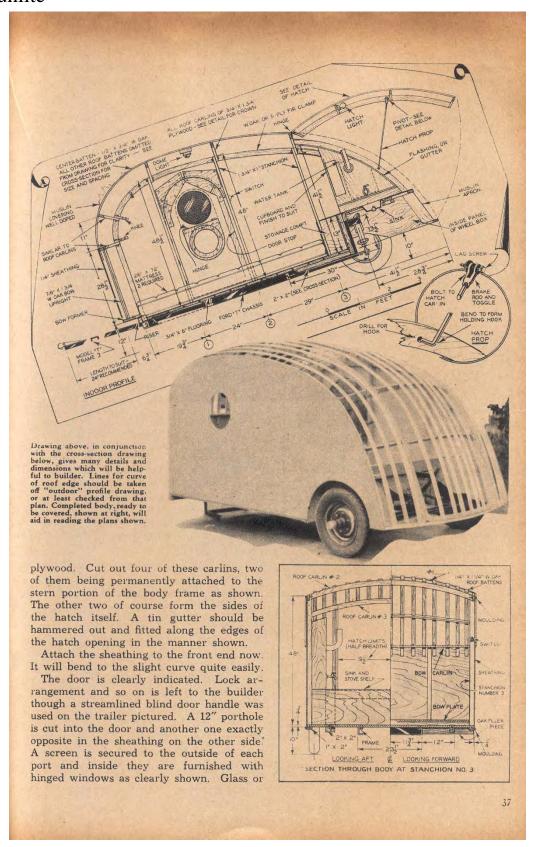
The side clamps or roof strips can now be sawed to shape and mortised into the tops of the stanchions as shown. They may be lightly screwed until the outer sheathing is applied. This sheathing, of fir plywood, 1/4" thick, or hard Celotex, is screwed directly to the stanchions, floor edges and 1"x2" outer strips. The carlins at front and back of the trailer are put in with knees as shown. Do not apply the sheathing to the front end of the trailer until the roof battens have been bent in. If these prove stiff, soaking for half a day under the lawn sprinkler will render them pliable. They are fastened over the carlins without notches except where they bend into the front, or bow cabin. They are notched flush into this former. Use light screws to secure the roof battens.

The lift-up cover over the galley, called a hatch in the drawings, is built up in the manner shown. The longitudinal carlins are cut to the same sweep as the roof from 3/4"



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