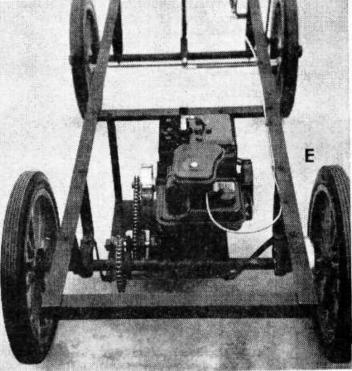


Be the first in your block to give your boy a truck! This original S&M design will enable the average craftsman to build this powered, half-size 1901 truck in a few weekends.

By George E. Jones



SCIENCE & MECHANICS

Build it to scale:

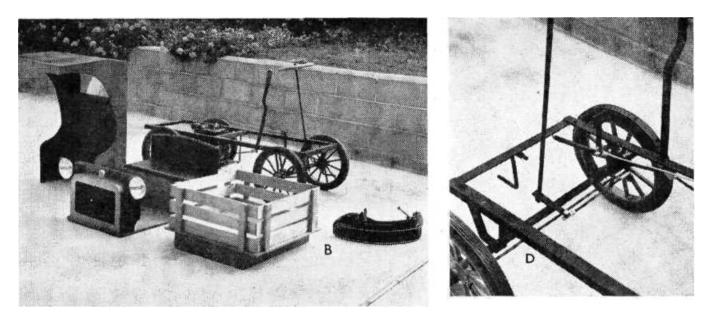


THE SCIENCE & MECHANICS half-size antique truck with its 2-hp, 4-cycle gasoline engine makes a really sensational toy for a youngster. It will carry Junior around the lot at a brisk 13 mph, yet will come to a safe and sure stop when he pulls back on the old-fashioned hand brake. And there's enough room for Sis to tuck into the seat beside him too.

The frame is welded steel-angle stock; the body is plywood, Masonite and white pine. A small amount of machining is required to make some of the chassis parts. To give the truck a more professional appearance, the wheels, hub caps, steering wheel, pillow blocks, brake drum, ball joints and fenders can be purchased (see Materials List at end of article).

Frame. Construction begins with the frame (Fig. 1). While ordering the steel angle for the frame, have *all* the other steel cut that will be required for the truck.

The frame consists of two side rails of 1/8-inch steel angle measuring $1-1/4 \times 1-1/4 \times 54$ inches, and three cross members each 17-1/2 inches long. Use a framing square to lay the frame rails and end pieces square with each other, then clamp and weld. The over-all outside dimension of the frame will be 18×54 inches. (*Turn page*)



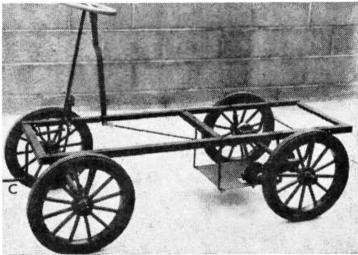
A. A boy's dream come true. Note old-fashioned hand brake.

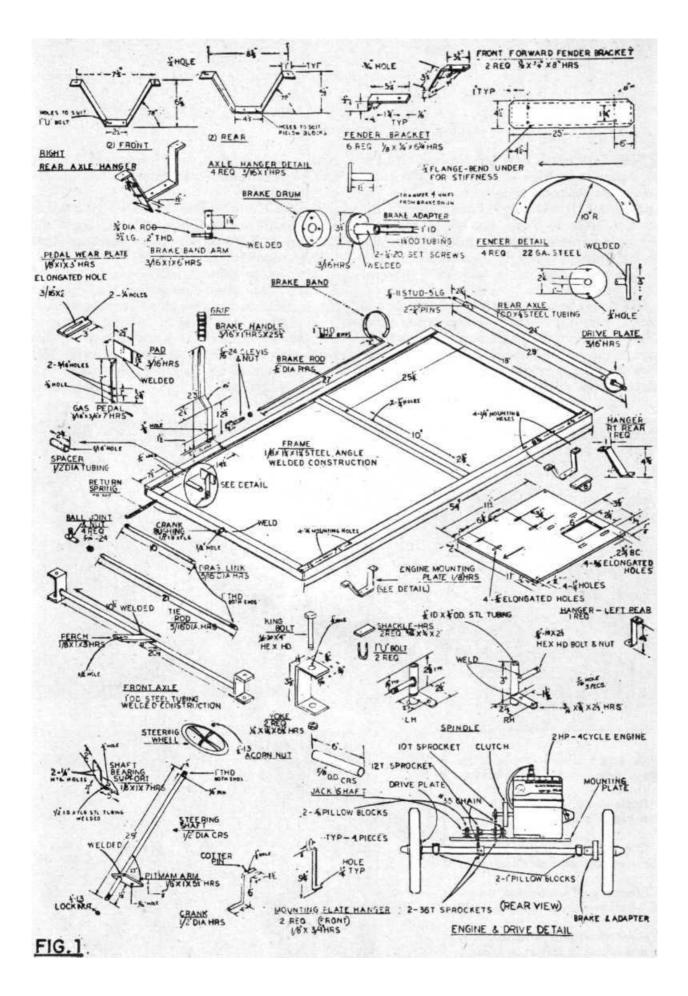
B. Basic units: chassis, cab, radiator, seat, stake body, fenders.

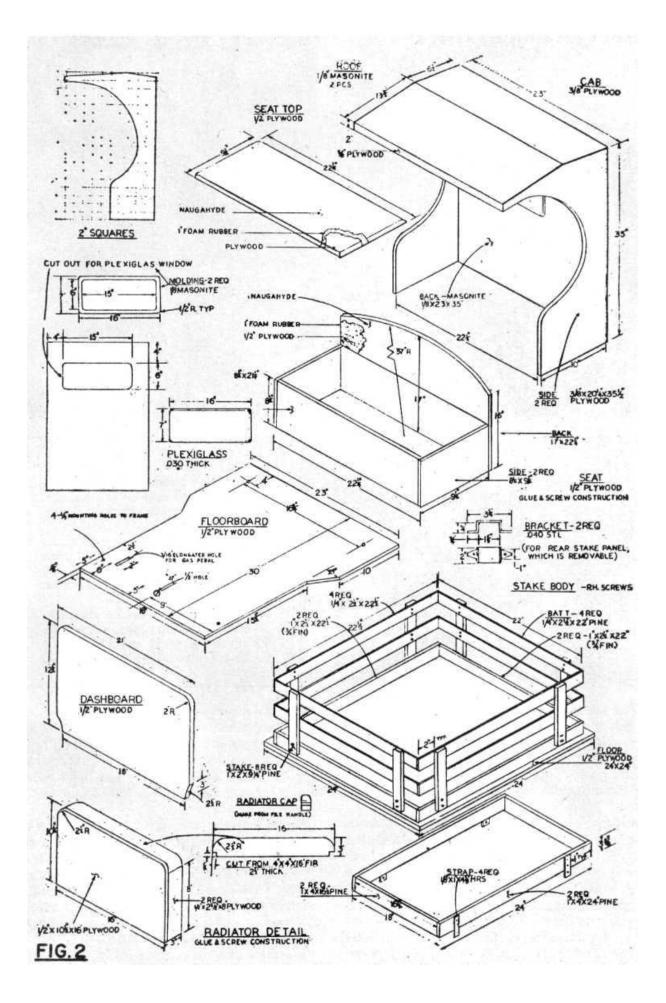
C. Chassis with brake handle, engine mount and steering unit.

D. Close-up of ball-point steering, hand brake and accelerator.

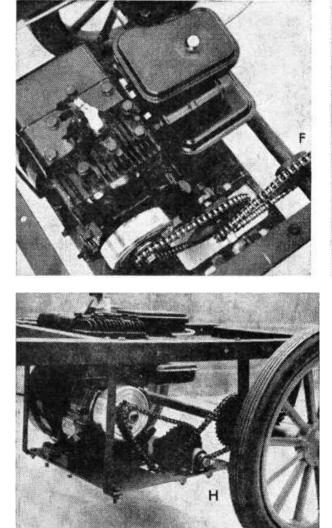
E. View of engine in place with drive leading to left rear wheel.





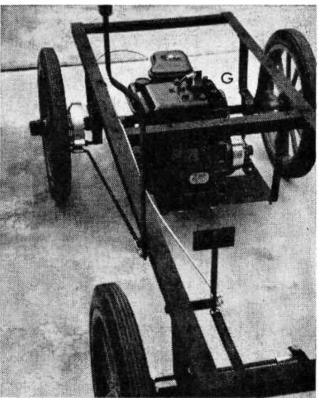


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The four axle hangers (Fig. 1) are made of hot-rolled steel stock that can be bent cold in a vise. The rear hangers are shorter in height than the front hangers to compensate for the pillow blocks. Mount the hangers to the frame with 1/4-inch roundhead stove bolts.

Axles. The spindle yokes for the front axle are made of 1/4x1-1/4-inch hot-rolled steel bent to shape in a vise. Drill the 1/2-inch king bolt holes in the yoke ends. The front axle is 1-inch-diameter steel tubing 20-1/2 inches long. Weld the yokes to the tubing so they are centered on the tube ends and parallel. Clamp and weld this assembly. Drill the 1/2-inch hole in the perch, then place it in the center of the axle at a 27° angle from the



F. Top view showing the clutch and chain arrangement, sprockets, jack shaft and pillow blocks. Engine is a 2-hp Briggs & Stratton.

G. Mercury strap brake and brake band in position on the right rear wheel. Adjustment is by clevis attached to handle and brake rod.

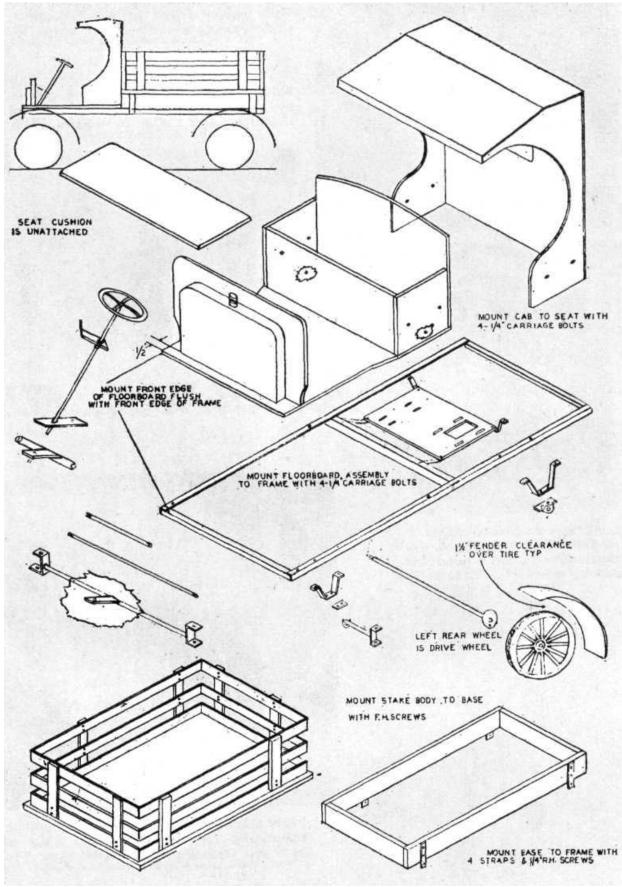
H. 10-tooth sprocket on clutch to 36-tooth sprocket on jack shaft; 12-toofh sprocket on jack shaft to 36-tooth sprocket on rear axle.

horizontal plane and weld it.

The spindles are identical except that the right-hand spindle arm has two 5/16-inchholes for mounting the drag link. Weld the wheel spindles ($5/8 \ge 2-1/2$ -inch-long hex head bolts) to the spindle bodies at a 90° angle to the spindle arms.

Make the rear axle of a 24-inch-long piece of 1 -inch-diameter steel tubing and pin the 5/8 -inch-diameter stub axles in the ends of the tubing with 1/4-inch pins. The stub axles are simply 5/8-inch-11 hex-head bolts 5 inches long with their heads sawed off They extend 2-1/2 inches outside the tubing to make an over-all axle length of 29 inches.

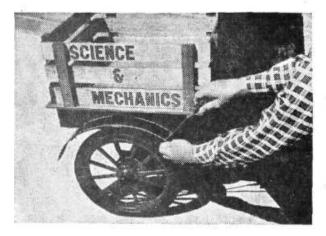
Machine the drive plate (Fig. 1) from a *(Continued on page 92)*





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I. Sheet metal or Fiberglass fenders should clear top of the tires by about 1-1/2 inches.

J. Rear view of the completed truck points up faithful reproduction of original design.

piece of 3/16-inch hot-rolled steel turned to a 3-inch diameter and with a 1-inch hole bored in the center which will provide a slip-fit for the rear axle. Drill the two 1/4-inch holes in the plate 180° apart, then weld the plate to the left side of the axle and flush with the end of the tubing. Weld inboard on the axle, because the outside face of the plate must bolt flush to the drive wheel.

Fabricate the brake adapter and drill the two 1/4-inch set-screw holes, then transfer the hole pattern in the brake drum to the brake-adapter plate and mount it to the plate with four 1/4-inch hex-head bolts.

Now proceed with the following sequence on the rear axle (Fig. 1): (1) slip a locking collar and then a 1-inch pillow block onto the axle and slide it toward the drive plate; (2) slip on the 36-tooth sprocket (1-inch bore); (3) slip on the other 1-inch pillow block and locking collar; and (4) slide the brake drum assembly onto the axle with the adapter tubing pointing toward the center of the axle.

Position the rear axle assembly so that the pillow blocks are in line with the rear axle hangers. Mount the pillow blocks to the hangers with 3/8-inch hex-head bolts and nuts, centering the axle for length. The brake drum and 36-tooth sprocket are positioned later.

Mount the front axle to its axle hangers with 1 -inch U-bolts and shackles. Center the axle for length with the yokes at 90° angles to the frame. With the two axles thus mount-



ed, the wheelbase of the car should measure 38 inches.

Complete the front axle assembly by threading the tie rod and drag link ends with 1 inch of thread on the ends. Screw the ball joints to the ends. The spindle bodies are held in place in the yokes with 1/2 x 4-inchlong hex-head bolts (king bolts) and lock nuts. Attach the tie rod to the holes in the spindle arms, and the drag link to the remaining hole in the right-hand spindle.

Paint the frame before putting the wheels on the axles. Spread on a coat of metal primer, finishing with a coat of flat black enamel. Paint the wheels with bright red enamel.

When the paint has dried put on the front wheels and lock nuts, with the lock nuts backed off 1/4 turn from the snug position so the wheels revolve freely. Tap the hub caps into place. The front wheels should have about 1/16-inch toe-in when properly mounted.

The right rear wheel is the free wheel and is put on next. The left rear wheel is the drive wheel. Slip this wheel onto the axle, then transfer the screw-hole pattern from the drive plate to the wheel. Remove the wheel and drill and tap it for two 1/4-inch -20 tapped holes. Put the wheel back on and secure it to the drive plate with two 1/4-inch -20 hex-head bolts. Tighten the lock nut into place, then tap on the hub cap.

Brake assembly. Make the brake band arm (Fig. 1) and mount it to the right rear

axle hanger. Thread the ends of the brake rod, then put a 2-inch-long, 90° bend in one end. The brake handle is a piece of 3/16-inch hot-rolled steel bent to shape in a vise. Place the brake band (Fig. 1 & Photo G) over the outside diameter of the brake drum, slipping the top loop hole of the band over the brake arm stud, and secure it with a nut. Slip the 90° bent end of the brake rod through the bottom loop hole of the brake band and secure it with a nut, then attach the clevis to the other end of the brake rod. With the brake handle attached to the frame, position the brake drum and snug it up with bolt and nut to assure firm action. Tighten the two set screws in the brake adapter on the axle.

Engine mounting plate assembly. The engine mounting (Fig. 1 & Photo E) is made of 1/8-inch hot-rolled steel plate. Make the cutout for the jack-shaft sprockets (the elongated holes) and drill the four 1/4-inch corner hanger-mounting holes. Bend the four strap hangers in a vise. The two front hangers are both9-3/4 inches long; the two rear hangers mount to the underside of the axle hangers in the forward hole of the pillow-block mounting holes. The two front hangers mount to the steel-angle frame cross member.

The jack shaft (Fig. 1) is a piece of 5/8inch-diameter cold-rolled steel cut to a 6inch length. Mount the 36-tooth sprocket (5/8-inch bore) and the 12-tooth sprocket (Photo F) on the jack shaft, then slip the two 5/8-inch pillow blocks on the ends of the shaft with the locking collars outward. Mount this assembly to the engine plate in the elongated holes, snugging up the bolts.

When you buy the engine, also get a throttle-control cable (Photo G) and four conduit clips for securing the cable to the frame. Lead the cable to the accelerator footpedal. Mount the centrifugal clutch onto the engine shaft and position the engine on the mounting plate, but don't tighten the bolts and nuts yet. Line up and tighten the sprockets (Photo H) so that the 36-tooth jack-shaft sprocket is in line with the clutch sprocket, and the smaller sprocket on the jack shaft lines up with the axle sprocket. Fit the chains so there is about 1/2 inch of slack halfway between the sprockets. Then tighten all mounting bolts in the engine holes and pillow-block holes.

Steering unit. The steering shaft (Photo C) is 1/2-inch-diameter cold-rolled steel with 1 inch of thread on both ends. Drill the

1/4-inch pin hole near the top of the shaft as indicated in Fig. 1. Later a pin is inserted here which prevents the wheel spinning on the shaft. Drill the 1/2-inch hole and the 5/16-inch hole in the pitman arm, then weld the pitman arm to the steering shaft as shown. Mount the steering shaft through the 1/2-inch hole in the axle perch and secure it with a lock nut. Attach the drag link (Photo C) to the 5/16-inch hole in the pitman arm.

Make the steering-shaft support from a piece of 1/8-inch hot-rolled steel and weld the bushing to the underside in line with the 1/2-inch hole drilled in the support to receive the steering shaft.

The accelerator (Photo G) is of welded construction, with holes drilled to accommodate the return spring, the swivel screw for the control cable and the hole for the spacer bushing which mounts to the frame.

The crank (Photo C) is for appearance only. It is made of 1/2-inch diameter hotrolled steel heated and bent to shape. Drill a 1/2-inch hole in the center of the front cross member of the frame and weld a 1/2-inch I.D. bushing behind the hole to support the crank end. Use a cotter pin to hold the crank in the bushing.

Bend the eight fender brackets of 1/8 x 3/4-inch hot-rolled steel in a vise. You can purchase a set of fiberglass fenders or make the fenders yourself of 22-gage sheet metal. If you make your own, have them sheared to the exact dimensions at the tin shop where you buy the metal. The tinsmith will also run the metal through his slip-roll sheet-metal former to produce the desired 10-inch radius. Note that the fenders all have a 1/2-inch edge flange bent under for rigidity.

Paint the fenders with a primer coat, then with glossy black enamel. You can stripe them with a striping tool or by using masking tape (use a fine brush). Mount the fender brackets (Photo I) to the frame so there will be approximately *Wi* inch clearance between the fenders and the top of the tires.

Body. The floorboard is cut from 1/2 -inch plywood. Remember to mark and cut the elongated hole for the foot pedal, and drill the 3/4-inch clearance hole for the steering shaft. Give the floorboard a coat of shellac, followed by a coat of varnish.

Make the pedal wear plate (Fig. 1) of hot-rolled steel. After elongating the 1/2-inch hole in it, mount it over the elongated hole in the floorboard.

The radiator (Fig. 2) is made of wood, the (Continued on next page)

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(Continued from page 93)

top curved portion being cut from a piece of 4x4-inch lumber; the front and sides are plywood. It is assembled with Weldwood glue and flathead screws. The dashboard is cut from 1/2-irich plywood and screwed and glued to the radiator assembly. Paint the radiator assembly with bright red enamel, the radiator itself flat black trimmed with brass paint.

The seat is made of plywood and assem-

20020	MATERIAL'S LIST-S&M'S AN	
Amt. R	eq. Size & Description	Use
2 pcs.	1/8x11/4x11/4x54" steel angle	frame side rails
3 pcs. 1 pc.	1/8x11/4x11/4x173/4" steel angle 3/16x1x681/2" hot-rolled steel	2
-	(HRS)	4 axle hangers
1 pc.	1/4x11/4x13" HRS 1/2" I.D. x 3/4" O.D. x 6" steel	2 yokes
1 pc.	1/2" I.D. x 3/4" 0.D. x 6" steel	O colorida hadina
1	tubing	2 spindle bodies
1 pc.	3/16x34x5" HRS	2 spindle arms
1 pc. 1 pc.	1/8x1x3" HRS 5/16" dia. x 60" HRS rod	perch (axle)
T be-	%16 ula. X 60 H HS F00	tie rod, drag link, brake rod
1 pc.	1" dia x 201/a" steel tuhing	front axle
1 pc.	1" dia. x 201/2" steel tubing 1/2" dia. x 29" cold-rolled	steering shaft
	steel (CRS)	accenting and a
1 pc.	1/8x1x51/2" HRS	pitman arm (steer.
	,	shaft)
1 pc.	V ₈ x1x7" HRS	steering shaft support
1 pc.	/2" I.D. x 34" O.D. x 1" steel	steer, shaft sup.
	tubing	bushing
1 pc.	3/16×1×7" HRS	brake pedal
1 pc.	3/16x11/2x21/2" HRS	brake-pedal pad
1 pc.	5/16" 1.D. x 1/2" 0.D. steel	pedal spacer
- 1	tubing, 25'g" long	And the state of t
1 pc.	716×1×7 HRS 3/16×1×72×21/2" HRS 5/18" 1.D. x 1/2" 0.D. steel tubing, 25/8" long 1/8×3/4×37" HRS	4 engine-mounting
		plate hangers
4 pcs.	51/2x26", 22-ga. sheet metal	4 fenders
1 pc.	3/2220 , 12-24. Sheet netal /8x3/2x54" HRS 1" 0.D. x 5/2" I.D. steel tubing, 24" long 3/14x3" dia, HRS	8 fender brackets
1 pc.	1" U.D. X 9g" I.D. Steel	rear axle
1	tubing, 24" long	dalue state (sees exte)
1 pc.	3/ 221/11 dia UPC	drive plate (rear axle)
1 pc.	³ / ₁₆ x3 ¹ / ₂ " dia. HRS 1" I.D. x 1 ¹ / ₄ " 0.D. x 1 ¹ / ₂ "	brake adapter
1 pc.		brake adapter
1 pc.	54" O D CRS	jack shaft
1 pc.	3/. v1v6" HRS	brake band arm
1 pc.	36" dia. x 21/9" long HRS	brake band arm
î pc.	3/1+x1x251/4" HRS	brake handle
1 pc.	5%" 0.D. CRS 5%" 0.D. CRS 3%14X1x6" HRS 3%" dia. x 21/2" long HRS 3/14X1x251/4" HRS 1/2" dia. x 12" long HRS 1/2" 1.D. x 3/4" 0.D. x 1" long WDC	crank
1 pc.	1/5" I.D. x 3/4" O.D. x 1" long	crank bushing
2000	nn2	constant and the second second
1 pc.	1/8x1x3" HRS	pedal wear plate
1 pc.	.040 x 2 x 10" long sheet	2 stake body brackets
	metal	Provide President Annales - Consider the Bar
1 pc.	Vax1x20" HRS	4 body-mounting
		straps
	STEEL PARTS	
2	1" U-bolts	front axle shackles
2	bicycle handle grip	brake handle grip
2	1/2"-20 x 4" hex-head bolts	king bolts for yokes
	& nuts	
2	5/8"-11 x 5" hex-head bolts	rear axle studs
1	return spring	accelerator foot pedal
1 1 2 1	5/16"-24 clevis & nut	brake-rod assembly
1	brake assembly	brake
2	1" pillow blocks	rear axle
2	5's" pillow blocks	jack shaft
L	centrifugal clutch	engine
1	36-tooth sprocket (1" bore)	rear axle
1	36-tooth sprocket (5%" bore)	jack shaft
1	12-tooth sprocket (58" bore)	jack shaft
4	5/16"-24 ball Joints	steering assembly
	ENGINE	
	4-cycle Briggs & Stratton (or eq	

bled with Weldwood glue and flathead screws. Upholster the backrest and seat cushion (Fig. 2) with 1-inch foam rubber and Naugahyde covering. Give the seat a primer coat, then one coat of bright red enamel. The seat cushion is left unattached, but is fitted snugly in place later.

Cab. Clamp and bandsaw the stock for the two sides of the cab at the same time, after marking the contours of the cut as shown in Fig. 2. Cut the roof sections and back panel from 1/8-inch Masonite. Cut the back window opening for the Plexiglas and the two strips of molding that hold the Plexiglas in place. Assemble the cab with Weldwood glue and 3/4-inch brads spaced at 2-inch intervals. Paint the roof of the cab glossy black and the sides bright red enamel. Then place the cab around the seat and fasten it to the sides of the seat with four 1/4-inch carriage bolts.

Mount the radiator and cab assembly to the floorboard; the radiator unit (Fig. 2) is

	BODY		
Amt. Re		Use	
1	1/2x23x30" plywood	floorboard	
1112121121112118224422211	Vax121/ax21" nlywood	dashboard	
1	1/2x101/2x16" plywood 4x4x16" pine	radiator	
ĩ	AvAv16 nine	radiator top	
2	1/2×21/2×8" nlywood	radiator sides	
1	1/2x21/2x8" plywood 1/2x81/2x21/4" plywood 1/2x81/2x91/2" plywood	seat front pan	al.
÷.	V 2X0/2X21/4 plywood	seat sides	eı
4	/2X0/2X9/2" plywood		
1	1/2×17×221/4" plywood	seat back	
1	1/2x91/2x221/4" plywood 3/8x201/4x35" plywood	seat top	
2	3/8x201/4x35" plywood	cab sides	
1	1/8x23x35" Masonite	cab back pane	
1	V8x133/4x23" Masonite	roof section	
1	1/8x61/2x23" Masonite	roof section	
1	36x2x23" plywood	roof front stri	
2	3%x2x23" plywood 1/8x7x16" Masonite	plexiglas mold	
Ŧ	.030x7x16" Plexiglas	cab window	
î	1/2x24x34" plywood	stake body ber	4
a l	1v2v01/// nine	ctokee	•
2	1x2x9 ¹ /4" pine 1x22 ¹ /2 ^{x2¹/2"} pine	stake body	
2	1x22/2x2/2 pine	stake body	
2	1x22x21/2" pine 1/4x21/2x22" pine 1/4x21/2x22" pine	stake body	
4	1/4x21/2x22" pine	stake body	
4	1/4x21/2x221/2" pine	stake body	20.25
2	1x4x16 ¹ /2" pine 1x4x24" pine 1x4x24" pine	base (stake bo	idy)
2	1x4x24" pine	base (stake bo	dy)
1	1"x181/2x22 foam rubber	upholstery	519 (A)
1	24x30" Naugahyde covering	upholstery	
1	$1''x18!/_2x22$ foam rubber 24x30" Naugahyde covering 5' Roll, $1/_2$ " wide edging	upholstery tri	m
Misc. ni	uts & bolts to suit, 3⁄4″ brads	s, upholstery tac	ks, etc.
The f Co., P.C at price	following parts are available following parts are available). Box 1243, Magnolia Park S s shown, plus shipping costs.	from George E	ks, etc. . Jones , Calif.,
The f Co., P.C at price	following parts are available following parts are available D. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM	from George E Station, Burbank	. Jones , Calif., PRICE
The t Co., P.C at price	following parts are available following parts are available D. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM ITEM	from George E	KS, etc. . Jones , Calif., PRICE \$ 2.40
The t Co., P.C at price ball join steering	Its & boits to suit, 34" brads following parts are available). Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM it=5%6"-24 wheel—aluminum cast	from George E Station, Burbank (Set of 4)	ks, etc. . Jones , Calif., PRICE \$ 2.40 4.50
The f Co., P.C at price ball join steering	following parts are available following parts are available D. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM ITEM	s, uphoistery tac from George E station, Burbank (Set of 4) hipneumatic tire	ks, etc. . Jones , Calif., PRICE \$ 2.40 4.50
The f Co., P.C at price ball join steering wheels—	following parts are available following parts are available 0. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM It—5/ ₁₆ "-24 wheel—aluminum cast -aluminum cast—16x1.75 sem	s, upnoistery tac from George E Station, Burbank (Set of 4) nipneumatic tire (Set of 4)	ks, etc. Jones, Calif., PRICE \$ 2.40 4.50 41.50
The t Co., P.C at price ball join steering	following parts are available following parts are available 0. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM It—5/ ₁₆ "-24 wheel—aluminum cast -aluminum cast—16x1.75 sem	s, uphoistery tac from George E station, Burbank (Set of 4) hipneumatic tire	 ks, etc. Jones Calif., PRICE \$ 2.40 4.50 41.50 2.20
The f Co., P.C at price ball join steering wheels— hub cap:	following parts are available following parts are available 0. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM It—5/ ₁₆ "-24 wheel—aluminum cast -aluminum cast—16x1.75 sem	s, upnoistery tac from George E Station, Burbank (Set of 4) nipneumatic tire (Set of 4)	 ks, etc. Jones Calif., PRICE \$ 2.40 4.50 41.50 2.20
The f Co., P.C at price ball join steering wheels— hub caps fenders-	ots & boits to suit, 94" brads following parts are available). Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM it—5%6"-24 wheel—aluminum cast -aluminum cast—16x1.75 sem 5 -fiberglass	s, upnoistery tac from George E Station, Burbank (Set of 4) (Set of 4) (Set of 4)	 ks, etc. Jones Calif., PRICE 2.40 4.50 41.50 2.20 9.95
The f Co., P.C at price ball join steering wheels— hub caps fenders— brake—	on to suit, 34" brads following parts are available 0. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM ht—5/16"-24 wheel—aluminum cast -aluminum cast—16x1.75 sen s -fiberglass mercury strap	(Set of 4) (Set of 4)	KS, etc. Jones, Calif., PRICE \$ 2.40 4.50 41.50 2.20 9.95 4.50 7.20
The 1 Co., P.C at price ball join steering wheels— hub caps- fenders- brake— 1" SKF	ats & boits to suit, 34" brads following parts are available 0. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM ht—5/16"-24 wheel—aluminum cast -aluminum cast—16x1.75 sem s -fiberglass mercury strap pillow blocks	(Set of 4) (Set of 4)	KS, etc. Jones, Calif., PRICE \$ 2.40 4.50 41.50 2.20 9.95 4.50 7.20
The f Co., P.C at price ball join steering wheels- hub caps fenders- brake- 1" SKF 5%" SKI	ats & boits to suit, 94" brads following parts are available). Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM it—9/6"-24 wheel—aluminum cast -aluminum cast—16x1.75 sem s fiberglass mercury strap pillow blocks F pillow blocks	s, upnoistery tac from George E Station, Burbank (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Per Pr.)	 ks, etc. Jones Calif., PRICE \$ 2.40 4.50 41.50 2.20 9.95 4.50 7.20 6.00
The f Co., P.C at price ball join steering wheels— hub caps fenders— brake— 1" SKF 5/8" SKI	Als & bolts to suit, 34" brads following parts are available on. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM it—5/16"-24 wheel—aluminum cast —aluminum cast—16x1.75 sen s —fiberglass mercury strap pillow blocks F pillow blocks f pillow blocks	(Set of 4) (Set of 4)	 ks, etc. Jones Calif., PRICE \$ 2.40 4.50 41.50 41.50 9.95 4.50 7.20 6.00 1.95
The f Co., P.C at price ball join steering wheels— hub caps fenders— brake— 1" SKF 5/8" SKI	Als & bolts to suit, 34" brads following parts are available on. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM it—5/16"-24 wheel—aluminum cast —aluminum cast—16x1.75 sen s —fiberglass mercury strap pillow blocks F pillow blocks f pillow blocks	s, upnoistery tac from George E Station, Burbank (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Per Pr.) (Per Pr.)	 ks. etc. Jones Calif., PRICE \$ 2.40 4.50 41.50 2.20 4.50 4.50 7.20 6.00 1.95 7.50
The f Co., P.C at price ball join steering wheels— hub caps fenders— brake— 1" SKF 5/8" SKI	Als & bolts to suit, 34" brads following parts are available on. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM it—5/16"-24 wheel—aluminum cast —aluminum cast—16x1.75 sen s —fiberglass mercury strap pillow blocks F pillow blocks f pillow blocks	s, upnoistery tac from George E Station, Burbank (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Per Pr.) (Per Pr.)	 ks. etc. Jones Calif., PRICE \$ 2.40 4.50 41.50 2.20 9.95 4.50 7.20 6.00 1.95 7.50
The i Co., P.C at price ball join steering wheels— hub cap: fenders- brake— 1" SKF 5%" SKK 5%" SKC 5%" cottl 36-tootl 36-tootl 36-tootl 36-tootl 36-tootl	Als & bolts to suit, 94" brads following parts are available 0. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM tt=916"-24 wheel—aluminum cast -aluminum cast—16x1.75 sem 5 -fiberglass mercury strap pillow blocks F pillow blocks slates—'1901" h sprocket—1% bore h sprocket—5%" bore	s, upnoistery tac from George E Station, Burbank (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Per Pr.) (Per Pr.) (Per Pr.)	ks, etc. Jones, Calif., PRICE \$ 2.40 4.50 41.50 2.20 9.95 4.50 7.20 6.00 1.95 7.50 7.50 7.50 1.60
The i Co., P.C at price ball join steering wheels hub cap: fenders- brake 1" SKF 5%" SKI license p 36-tootl 36-tootl 12-tootl chain	ats & boits to suit, 94" brads following parts are available on 1243, Magnolia Park S s shown, plus shipping costs. ITEM the shipping costs. ITEM wheel aluminum cast -aluminum cast—16x1.75 sem s -fiberglass mercury strap pillow blocks F pillow blocks F pillow blocks S - 1901" h sprocket—1" bore h sprocket—56" bore h sprocket—56" bore 3 ft. reg.	s, upnoistery tac from George E Station, Burbank (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Per Pr.) (Per Pr.)	 ks. etc. Jones Calif., PRICE \$ 2.40 4.50 4.50 4.50 7.20 6.00 1.95 7.50 7.50 3.75
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The it Co., P.C at price ball Join steering wheels— hub cap: fenders— brake— 1" SKF %" SKI license p 36-tootl 36-tootl 12-tootl chain— cicenecti 2" decal	ats & boits to suit, 94" brads following parts are available 0. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM t—9/6"-24 wheel—aluminum cast -aluminum cast—16x1.75 sem 5 -fiberglass mercury strap pillow blocks for pillow blocks blates—'1901'' h sprocket—1% bore h sprocket—5%" bore h sprocket—5%" bore 3 ft. reg. ng links—2 reg. s—letters & numbers	s, upnoistery tac from George E Station, Burbank (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Per Pr.) (Per Pr.) (Per Pr.)	 ks. etc. Jones Calif., PRICE \$ 2.40 4.50 4.50 4.50 7.20 6.00 1.95 7.50 3.75 .48
The it Co., P.C at price ball Join steering wheels— hub cap: fenders— brake— 1" SKF %" SKI license p 36-tootl 36-tootl 12-tootl chain— cicenecti 2" decal	ats & boits to suit, 34" brads following parts are available 0. Box 1243, Magnolia Park S s shown, plus shipping costs. ITEM tt=5/16"-24 wheel-aluminum cast -aluminum cast-16x1.75 sen 5 -fiberglass mercury strap pillow blocks F pillow blocks F pillow blocks F pillow blocks F pillow blocks F pillow blocks f pillow blocks f a sprocket-1% bore h sprocket-5%" bore h sprocket-5%" bore 3 ft. req.	(Set of 4) (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Set of 4) (Per Pr.) (Per Pr.) (Per Pr.) (Set of 4) (Set of 4) (Set of 4) (Set of 4)	 ks. etc. Jones Calif., PRICE \$ 2.40 4.50 4.50 4.50 7.20 6.00 1.95 7.50 3.75 .48

mounted 1/2 inch behind the front edge of the floorboard. The cab mounts flush with the rear edge of the floorboard. Use flathead wood screws turned in from the underside of the floorboard.

Now pick up the whole floorboard assembly and fit it onto the frame, guiding the steering shaft through the clearance hole in the floorboard. The body is held to the frame with four 1/4-inch carriage bolts. Slide the steering shaft support over the steering shaft and attach it to the dashboard with two round-head screws. Insert the 1/4-inch pin in the steering shaft, then mount the steering wheel and cap it with an acorn nut.

Mount the accelerator foot pedal through the elongated hole in the floorboard and attach it to the frame with spacer bushing, bolt and nut. Attach the throttle control cable (Photo D) to the pedal, put on the pedalreturn spring and adjust the cable for proper return action to the carburetor.

Stake body. The stake body (Figs. 2 & 3) is made of $1/4 \ge 2-1/2$ -inch finished white pine. The rear stake section may be a permanent or removable installation. For a removable section make the two brackets shown in Fig. 2. The base for the stake body is of 1 x 4-inch white pine mounted to the bed of the stake body with flathead screws turned in from the top. Leave the stake sides their natural color, using a shellac sealer and a varnish finish. Mount the complete assembly to the frame by the four side straps secured to the base and frame with 1/4-inch round-head screws.

The headlights and taillights are optional. Add a radiator cap cut from the end of a file handle.

Go over the truck thoroughly now, making sure all nuts and bolts are tight. Then fill the tank with gas and the crankcase with oil and start the engine (which is readily accessible from beneath the stake body). Adjust it for idling speed so that it will de-clutch automatically when you release the foot pedal.

Hop in, and away you go.