

b. *Frame Bracket (Rear)*. Remove the six nuts (B), lockwashers, and bolts (A) securing the bracket-to-frame brackets (E) to the frame side rail (C), and remove the brackets from the vehicle.

c. *Links*. Remove the cotter pin (J) and one flat washer (L) from the link shaft (K) of the U-bolt plate (N), and slide the link (H) with the bushing (M) off the link shaft (K). Remove other flat washer (L).

d. *Bar (Front)*. The procedure for removing the front stabilizer bar is the same as that for removing the rear (a above), except that the brackets of the bar are mounted directly to the frame side rail.

58.1. Remove Front and Rear Springs and Axle Assemblies

M170

(Added)

a. *Spring Shackles Removal* (fig. 41.1).

- (1) Remove the lock nut and the flat washer securing the lower end of the shock absorber (fig. 40) to the U-bolt plate. Pull the lower end of the shock absorber and the two mounting pin bushings off the shaft of the U-bolt plate. Remove the two bushings out of the eye of the shock absorber.
- (2) Disconnect stabilizer link from stabilizer bar (par. 57.1 a (1) and (2)).
- (3) Raise the frame of the vehicle until both tires clear the ground. Using safety stands or suitable blocking, support the weight of the vehicle. Place a jack under the axle hous-

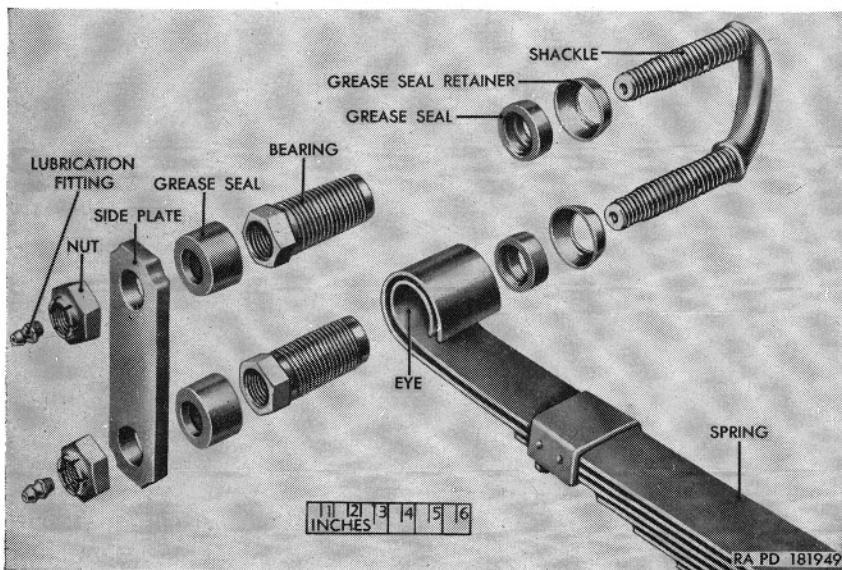


Figure 41.1. (Added) Spring shackle and spring shackle end of spring M170—exploded view.

ing and adjust the height of the jacks as necessary to take the tension off the spring.

- (4) Remove the nuts securing the side plate to the spring shackle and remove the plate and grease seals. Unscrew and remove the bushing-type shackle bearing from the shackle, spring eye, and frame side rail.
- (5) Pull the spring shackle, with the grease seals and grease seal retainers, from the eye of the spring assembly and frame side rail (for front spring) or spring bracket (for rear spring).
- (6) Slip the grease seals and the grease seal retainers off the shackle. Remove the lubrication fittings from the shackle.

b. Pivot Bolts Removal (fig. 41.2). Unscrew the safety nut from the pivot bolt. Withdraw the bolt from the spring bracket and bushing-type eye bearing in the spring eye.

Note. It may be necessary to drive the bolt out of the eye bearing with a suitable drift pin.

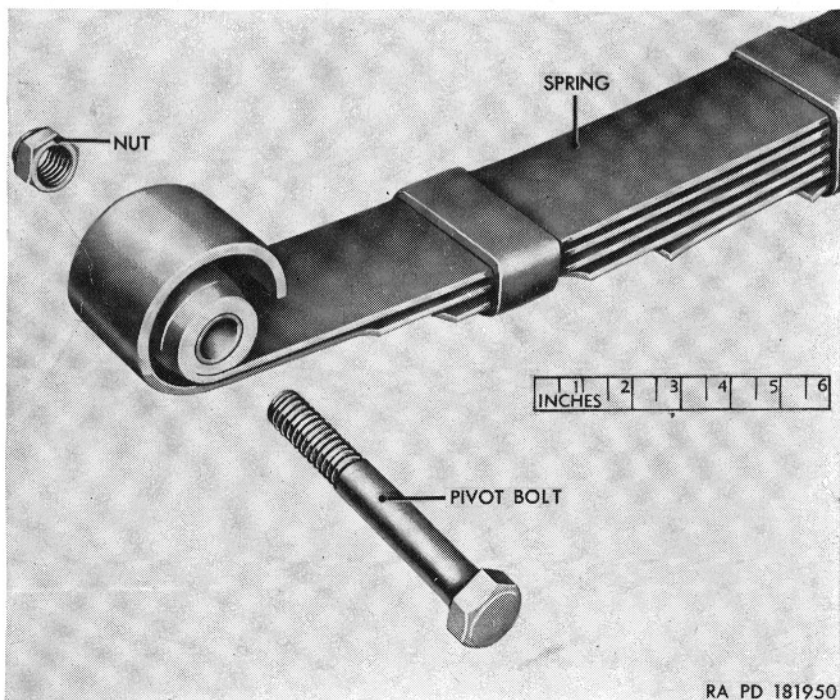


Figure 41.2. (Added) Pivot bolt and pivot bolt end of spring M170—Exploded view.

c. Steering Bellcrank Disconnection. Remove the cotter pin, slotted nut (H, fig. 41), and tie rods from the steering bellcrank assembly (J, fig. 41) when removing the front assemblies.

d. Spring and Axle Assemblies Removal from Vehicle. Remove the jack from the axle assembly and remove the spring, axle, brake, and drum and hub assemblies from the frame.

62. Install Front and Rear Springs and Axle Assemblies M38A1 (fig. 41)

* * * * *

62.1. Install Front and Rear Springs and Axle Assemblies M170 (Added)

a. General. Support the frame at a suitable height to offer working space for installation of spring and axle assemblies. Position the spring and axle assemblies under frame and support it on a jack.

b. Pivot Bolts Installation (fig. 41.2). Raise the axle and spring assemblies sufficiently to position the pivot bolt end of spring into pivot bolt bracket. Aline the hole in the spring and the bracket and install the pivot bolt. Install the safety nut on the bolt.

c. Spring Shackle Installation (fig. 41.1).

- (1) Slip a grease seal retainer and a grease seal in the order named over each of the threaded parts of the shackle. Start the small inside diameter of the retainers on the shackle.
- (2) Insert the ends of the shackle into the inner side of the spring assembly and the inner side of the frame rail (for front spring) or the spring bracket (for rear spring), and push the shackle in until the ends are almost protruding from the spring eye and frame side rail or spring bracket.
- (3) Insert the bushing-type shackle bearings into the spring eye and frame side rail or bracket, and start the bearings onto the shackle before the bearings start threading into the eye or frame side rail or spring bracket. Take up on both bearings equally until they are tight. Back off the lower bearing about one thirty-second of an inch ($\frac{1}{3}$ of a turn).
- (4) Place a grease seal over the hex-head of each bearing. Slide the side plate over the ends of the shackle and secure with two nuts. Install the lubrication fittings in the end of the shackle.
- (5) Raise the axle assembly with the jack until the upper end of the link (H or P, fig. 40.1) between the U-bolt plate and the stabilizer bar (D, fig. 40.1) enters the hole in the end of the bar. Install a grommet (Q, fig. 40.1) and a washer (R, fig. 40.1) over the end of the link. Secure the link, grommet, and washer to the bar with a nut (T, fig. 40.1) and cotter pin (S, fig. 40.1).
- (6) Install one mounting pin bushing, with the taper facing out, on the shaft of the U-bolt plate (fig. 40). Install the lower end of the shock absorber assembly (fig. 40) on the shaft.

Install another mounting pin bushing, with the taper facing in, on the shaft. Seat the two bushings in the eye on the end of the shock absorber. Secure the shock absorber to the shaft with one $\frac{1}{2}$ -inch ID flat washer and a $\frac{7}{16}$ -inch lock nut. Tighten until a slight bulge is noted in the bushings.

- (7) Remove the safety stands, or blocking, and lower the vehicle to the ground.

63.1. Install Stabilizer Links, Brackets, and Bars M170

(Added)

Note. The key letters noted in parentheses are in figure 40.1.

a. Links. Install one flat washer (L) on the link shaft (K). Install the link (H or P) with the bushing (M) over the link shaft (K) of the U-bolt plate (N). Install other flat washer (L) over the link shaft and secure with a $\frac{1}{8}$ x 1 cotter pin (J).

b. Frame Bracket (Rear). Position the bracket-to-frame brackets (E) on the frame side rails (C). Install three $\frac{7}{16}$ x 1 bolt (A) through each bracket and the side rail and secure with a $\frac{7}{16}$ -inch lock washer and $\frac{7}{16}$ -inch nut (B).

c. Bar (Rear).

- (1) Position the brackets (U) of the stabilizer bar (D) on the bracket-to-frame brackets (E), and install two $\frac{7}{16}$ x 1 bolts through the brackets on each side. Install a $\frac{7}{16}$ -inch lock washer and $\frac{7}{16}$ -inch nut on the bolts (V) securing the stabilizer bar (D) to the frame brackets.
- (2) Install a cup shaped washer (G) and a grommet (F) over the link (H or P) on each side.
- (3) Swing the bar down and slide the eyelet on each end of the bar over the links.
- (4) Install a grommet (Q) and cup shaped washer (R) over the end of each link.
- (5) Install a $\frac{3}{8}$ -inch nut (T) on each link and tighten until a slight bulge appears in the grommets and the slot in the nut is alined with the hole in the link; and install a $\frac{3}{32}$ x 1 cotter pin (S).

d. Bar (Front). The procedure for installing the front stabilizer bar is the same as the rear (*c* above) except that the brackets of the bar are mounted directly to the frame side rail.

71.1. Install Generator Regulator Assembly M170

(fig. 27.1)

(Added)

Position the generator regulator with the generator regulator mounting brackets on the dash panel and secure with four $\frac{1}{4}$ x $\frac{3}{4}$ lockwasher screws.

72. Install Body on Frame

a. (Superseded) *Attach Sling to Body*. Attach a suitable sling to dash panel as illustrated in figures 25 and 26.10.

b. *Install Body Mounting Cushions and Mounting Bracket Shims M38A1* (fig. 26).

b.1. (Added) *Install Body Sill Liners M170* (fig. 26.11). Cement new body sill liners (thick) at positions 1, 3, and 5. Cement new body sill liners (thin) at positions 2, 4, 6, and 7.

c. *Install Body on Frame M38A1* (fig. 25).

c.1. (Added) *Position Body on Frame M170* (fig. 26.10). Raise front of body with sling. Have two men lift rear of body while another pushes chassis under body. Rest rear of body on frame and lower front end of body making sure the opening in the front floor pan cover clears the transmission gear shift lever, transfer gear shift levers, and steering gear jacket.

d. *Connect Body to Frame M38A1*.

d.1. (Added) *Connect Body to Frame M170* (fig. 26.11).

(1) *Install body holddown bolts right and left side.*

(a) Place a $\frac{3}{8}$ -inch flat washer over a $\frac{3}{8}$ x 2 bolt and insert the bolt through the front cover floor pan and the No. 2 location point. Install a $\frac{3}{8}$ -inch flat washer and $\frac{3}{8}$ -inch lock nut on the bolt.

(b) Place a $\frac{3}{8}$ -inch flat washer over a $\frac{3}{8}$ x 2 bolt and insert the bolt through the body and the No. 3 location point from the inside of the tool compartment. Install a $\frac{3}{8}$ -inch flat washer and $\frac{3}{8}$ -inch lock nut on the bolt.

(c) Place a $\frac{3}{8}$ -inch flat washer over a $\frac{3}{8}$ x $1\frac{1}{4}$ bolt and insert the bolt through the sill of the body and the No. 4 location point from under the vehicle. Install a $\frac{3}{8}$ -inch flat washer and $\frac{3}{8}$ -inch lock nut on the bolt.

(d) Place a $\frac{3}{8}$ -inch flat washer over a $\frac{3}{8}$ x $1\frac{1}{4}$ bolt and insert the bolt through the sill of the body and the No. 5 location point from under the vehicle. Install a $\frac{3}{8}$ -inch flat washer and $\frac{3}{8}$ -inch lock nut on the bolt.

(e) Insert a $\frac{5}{16}$ x $1\frac{1}{2}$ step bolt through the body rear floor pan and the No. 6 location point. Install a $\frac{5}{16}$ -inch flat washer and $\frac{5}{16}$ -inch lock nut on the bolt.

(2) *Install body holddown bolts in rear cross member.* Place a $\frac{5}{16}$ -inch flat washer over a $\frac{5}{16}$ x $\frac{7}{8}$ bolt and insert the bolt through the body sill and the No. 7 location point from under the vehicle. Install a $\frac{5}{16}$ -inch flat washer and $\frac{5}{16}$ -inch lock nut on the bolt.

(3) *Make connections under body.*

- (a) Secure the four connectors of the trailer receptacle cables to the body with a bolt and nut (fig. 26.7).
- (b) Connect the three connectors of the cables for the service tail and stoplight (fig. 26.7).
- (c) Position the taillight and trailer connection guard under the wheel house and secure with a $\frac{1}{4}$ x $\frac{5}{8}$ lockwasher screw through the bracket on the outer edge of the guard and to the outer panel of the wheel house.
- (d) Insert and start two $\frac{1}{4}$ x $\frac{5}{8}$ lockwasher screws through the inner panel of the wheel house (fig. 158.1) and into the welded nuts of the guard.
- (e) Insert and start two $\frac{1}{4}$ x $\frac{5}{8}$ lockwasher screws through the wheel house (fig. 158.1) and into the welded nuts of the guard.
- (f) Tighten the screws.
- (g) Connect the two connectors of the blackout tail and stoplight cables at the right side of the vehicle (fig. 26.6). Place the cables under the clip on the mounting bracket.
- (h) Position the yoke of the hand brake cable on the hand brake lever (fig. 26.8), and secure with clevis pin and cotter pin.
- (i) Connect the fuel line (fig. 26.9) to the elbow. Secure the fuel line to the body sill with a clip and lockwasher screw.

* * * * *

73. Install Radiator Guard Assembly M38A1

(fig. 16)

* * * * *

73.1. Install Radiator Guard Assembly M170

(Added)

- a. Position the radiator guard assembly in front of the radiator, on the front fenders and the frame cross member.
- b. Install three $\frac{5}{16}$ -inch flat washers and $\frac{5}{16}$ x $\frac{7}{8}$ screws on each side of the vehicle securing the radiator guard to the front fenders.
- c. Install two bolts on each side of the radiator into the J nuts (fig. 16.1).
- d. Position the front of the two tie rods (fig. 16.2) on each side of the vehicle in the slots in the deflector. Tighten the nuts on the ends of the tie rods.
- e. Connect the headlight and the blackout marker and parking light cables (C, fig. 15).

74. Install Fenders M38A1

(fig. 15)

* * * * *

74.1. Install Fenders M170

(Added)

Follow procedure in paragraph 74 except *a*(1).

75. Install Spare Wheel and Tire Assembly M38A1

(fig. 14)

* * * * *

75.1 Install Spare Wheel and Tire Assembly M170

(fig. 14.1)

(Added)

Position the spare wheel and tire assembly in the spare wheel well on the right side of the vehicle. Install the bolt and plate securing the spare wheel to the spare wheel support bracket (fig. 162.1).

76. Install Batteries

(fig. 13)

* * * * *

h. (Added) Install cowl batteries box lid M170 (fig. 13.1). Hook the cover into the footman loop on the cowl. Lower the cover and secure with clamp.

184. Description

* * * * *

c. (Superseded) *Hand brake.* The mechanical hand brake system is independent of the hydraulic service brake system. The hand brake serves primarily as a parking brake but can also be used to slow or stop the vehicle should the service brakes fail. When the brake is applied, an inner and outer shoe (fig. 143.1) contacts a brake drum mounted on the transfer companion flange. Drag on the drum slows or prevents rotation of the flange and rear propeller shaft, to slow or stop the vehicle. The hand brake handle is at the right of the driver's seat as shown in figure 142 for the M38A1 and figure 142.1 for the M170. The hand brake handle of the M170 is mounted to avoid interference with a patient on the lower litter rack. Difference in linkage can be seen by comparing figures 143 and 143.1.

190. Disassembly M38A1

* * * * *

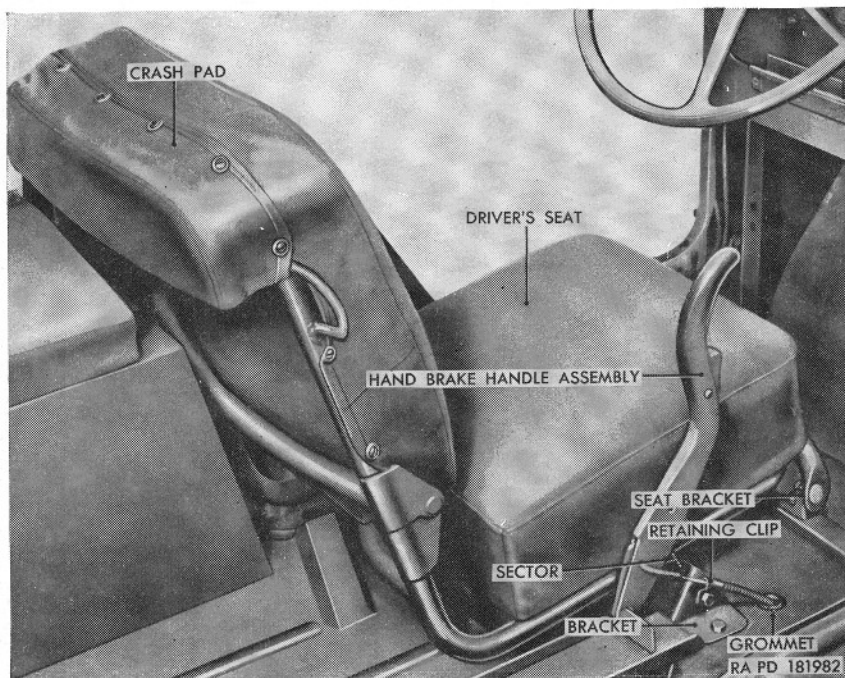


Figure 142.1. (Added) Hand Brake Handle and Driver's Seat Assemblies M170—Installed.

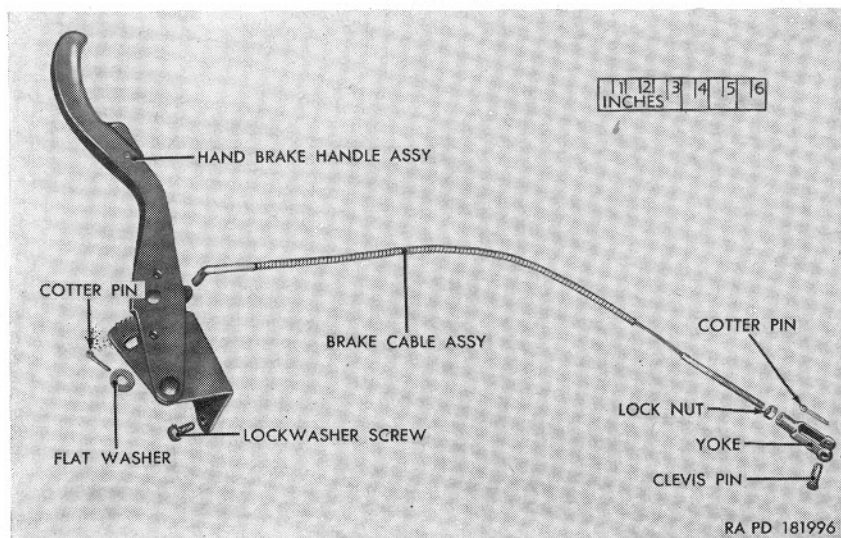


Figure 143.1. (Added) Hand Brake Assembly M170—Partially Exploded View.

190.1. Disassembly M170

(Added)

a. Remove Brake Cable Assembly.

- (1) Remove cotter pin and flat washer from cable assembly end (fig. 143.1) in driver's compartment. Remove grommet (fig. 142.1) from floor pan. Remove lockwasher screw from cable housing retaining clip (fig. 142.1). Spread clip and remove from cable housing.
- (2) Remove hand brake cable tension spring (fig. 26.8) from the the skid plate and the cotter pin in the cable from underside of vehicle. Remove cotter pin from clevis pin and remove pin from yoke and hand brake lever. Remove lockwasher screw from cable housing clamp (fig. 26.8) at rear of transfer. Remove grommet (fig. 26.8) from floor pan. Remove cable from the vehicle.

b. Remove Hand Brake Handle Assembly (fig. 142.1).

- (1) Remove the cotter pin and flat washer securing the brake cable to the hand brake handle assembly and remove the cable from the handle.
- (2) Remove the three lockwasher screws securing the sector of the brake handle assembly to the bracket on the floor pan cover and remove the assembly from the vehicle.

c. Remove Brake Drum, Operating Lever, and Inner and Outer Shoe Assemblies (fig. 143). Refer to paragraph 111 and 117 for removal procedures.

d. Disassembly. It is not necessary to disassemble the brake and brake cable assemblies unless inspection (par. 191) reveals them to be unserviceable.

- (1) *Brake cable assembly.* Loosen yoke lock nut (fig. 143.1). Unscrew the yoke from the cable assembly.
- (2) *Hand brake handle assembly.* Procedure for disassembly of the hand brake handle assembly M170 is the same as that for the M38A1 (par. 190d (2)).

191. Inspection and Repair

a. Inspection.

- * * * * *
- (6) *Brake rod and retracting spring M38A1* (fig. 143). Replace a broken * * * its intended manner.
 - (6.1) (Added) *Brake cable assembly M170* (fig. 143.1). Replace a broken, frayed, or kinked brake cable assembly.
 - (7) *Rod adjusting yoke M38A1* (fig. 143). Replace a broken or otherwise damaged rod adjusting yoke (H).

(7.1) (Added) *Cable adjusting yoke M170* (fig. 143.1). Replace a broken or otherwise damaged cable adjusting yoke.

* * * * *

192. Assembly

* * * * *

b.1. (Added) Assemble Brake Cable Assembly M170 (fig. 143.1). Install yoke lock nut on threaded end of cable.

* * * * *

c.1. (Added) Install Hand Brake Handle Assembly M170 (fig. 142.1). Position the sector of the brake handle assembly on the bracket on the floor pan cover. Install the three lockwasher screws securing the brake handle assembly to the bracket.

* * * * *

d.1. (Added) Install Brake Cable Assembly M170.

- (1) Push brake cable up through holes in floor pans (fig. 26.8) with the yoke end down. Install retaining clip on cable housing (fig. 142.1). Position clamp (fig. 26.8) at rear of transfer and install lockwasher screw. Install clevis pin in yoke and hand brake lever (fig. 26.8) and secure with cotter pin. Install the cotter pin (fig. 26.8) in the cable assembly. Connect the tension spring to the skid plate and cotter pin in the cable. Install grommet in floor pan.
- (2) Insert the upper end of the brake cable assembly in the brake handle assembly and secure with a flat washer and cotter pin (fig. 142.1).
- (3) Insert a lockwasher screw (fig. 142.1) in the retaining clip and install the screw in the bracket.

* * * * *

194. Description

a. Springs M38A1.

* * * * *

a.1. (Added) Springs M170. Both the front and rear spring assemblies are of the semi-elliptic-type with wrapped eyes on the two top leaves. The front spring (fig. 145.1) is a 10 leaf spring and the rear spring is an 11 leaf spring. One center bolt and four rebound clips secure the spring leaves of each spring assembly. Each spring assembly is suspended lengthwise from the frame by a shackle at the rear and a pivot bolt at the front. The pivot bolts ride in bushing-type eye bearings while the shackles are mounted in internally and externally threaded bushing-type shackle bearings. U bolts and U-bolt plates secure each spring assembly to its respective axle.

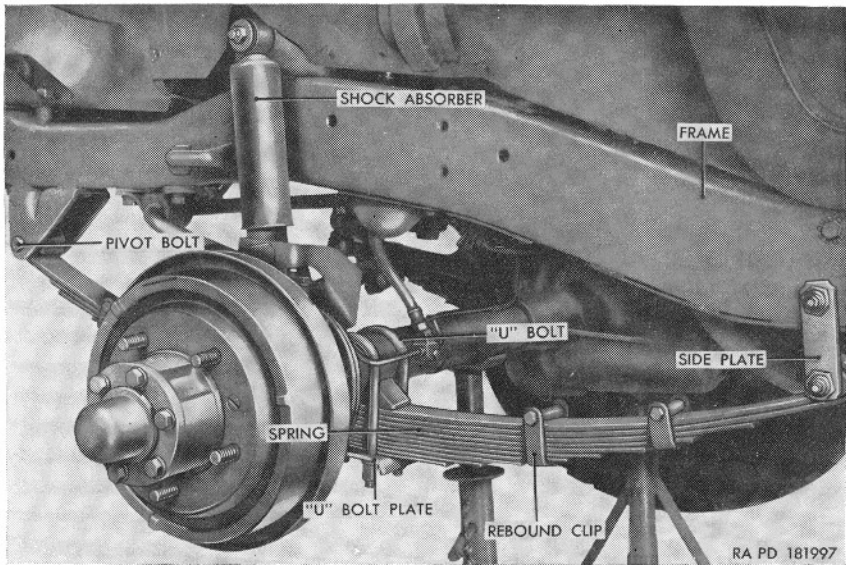


Figure 145.1. (Added) Front spring and shock absorber M170—installed.

195. Data

a. Front Springs M38A1.

* * * * *

a.1. (Added) Front Springs M170.

Manufacturer----- Mather Spring Co.
 Number of leaves----- 10
 Length (center of spring eyes, arched)----- 39½ in.
 Rebound clips----- 4

b. Rear Springs M38A1.

* * * * *

b.1. (Added) Rear Springs M170.

Manufacturer----- Mather Spring Co.
 Number of leaves----- 11
 Length (center of spring eyes, arched)----- 46 in.
 Rebound clips----- 4

c. Shock Absorbers M38A1.

* * * * *

c.1. (Added) Shock Absorbers M170.

Manufacturer----- Monroe
 Type----- double action, hydraulic
 Collapsed length :
 Front----- 11.44 in.
 Rear----- 11.94 in.
 Extended length :
 Front----- 18.44 in.
 Rear----- 19.44 in.

196. Disassembly

a. *Springs* (figs. 145 and 146).

* * * * *

- (2) *Remove rebound clips.* Remove rebound clip nut, spacer, and bolt securing each of the six rebound clips **on the M38A1 and four rebound clips on the M170.** Remove the spring leaves.

* * * * *

198. Assembly

a. *Springs* (figs. 145 and 146).

* * * * *

- (2) *Secure rebound clips.* Secure each of the six rebound clips **on the M38A1 or four rebound clips on the M170** with a rebound clip spacer, $\frac{5}{16}$ -24 NF-2 x 2 $\frac{1}{2}$ bolt, and nut. Peen ends of rebound clip bolts.

* * * * *

215. Description

(fig. 158)

a. *General M38A1.*

* * * * *

a.1. (Added) *General M170.* The all steel, open-type body (fig. 158.1) of the ambulance is of seamed and welded construction. The body is equipped with a driver's seat (fig. 142.1), front passenger seat, and wheel house cushions (fig. 158.2), tool compartment, two medical supplies stowage compartments, battery stowage box, and bows for the installation of the top cover, side curtains, and doors. A well in front of the right wheel house provides for mounting the spare wheel and tire inside the body. A two-piece, folding-type windshield, with two windshield wiper vacuum motors, is secured to the body cowl. The formed sheetmetal hood and front fenders are removable. Access to the rear of the engine compartment, transmission, transfer, master cylinder and steering gear is provided by removable front floor pan covers and access plates. Reflex reflectors are bolted to the rear and sides of the body.

* * * * *

c. *Seat Assemblies M38A1.*

* * * * *

d. (Added) *Seat Assemblies M170.* The vehicle is equipped with a driver's seat, a front passenger seat (fig. 158.1), and four wheel house cushions (fig. 158.2) that serve as seats for rear passengers. The rear of the driver's seat is equipped with the driver's seat frame crash pad and cover (fig. 142.1).

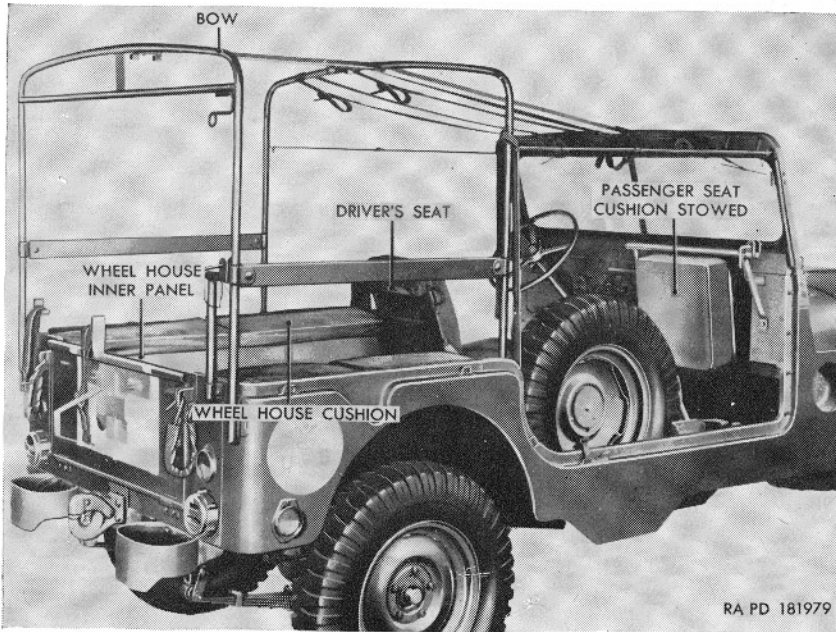


Figure 158.1. (Added) Body 1/4-ton 4 x 4 front line ambulance M170.

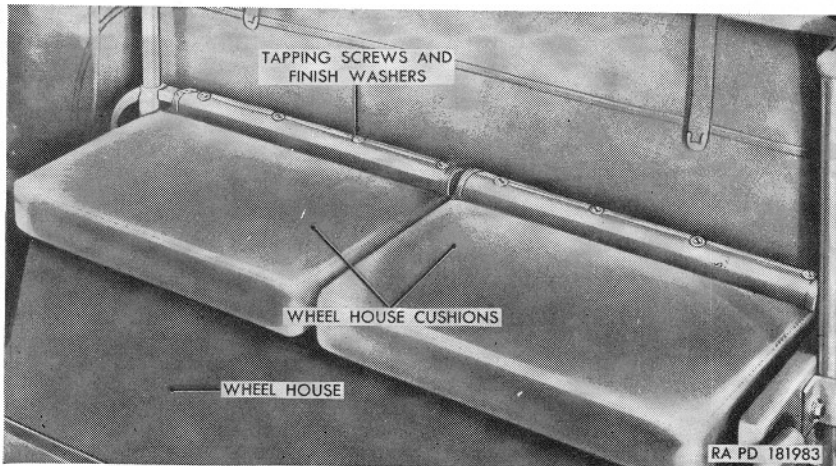


Figure 158.2. (Added) Right wheel house cushions M170—installed.

216. Data M38A1

* * * * *

216.1. Data M170 (Added)

Type----- all steel, open
Construction----- welded
Type of steel----- No. 18 gage
Width (edge of reflex reflectors)----- 60½ in.
Length (to inside of dash panel)----- 88¾ in.

217. General

* * * * *

b. Preliminary Instructions M38A1.

* * * * *

b.1. (Added) Preliminary Instruction M170. Disassembly instructions included in this chapter cover major items. Removal instructions for seat and fuel tank assemblies are covered in paragraph 220.1 for the seats, and paragraph 220.3 for the fuel tank. Refer to paragraph 48.1 for instructions relative to removal of body from vehicle. Paragraph 72 prescribes body installation instructions.

219. Remove Spare Wheel Support and Fuel Can Bracket Assemblies

a. Spare Wheel Support Bracket M38A1 (fig. 162).

* * * * *

a.1. (Added) Spare Wheel Support Bracket M170 (fig. 162.1). Remove the spare wheel and tire assembly (par. 45.1). Remove the three bolts securing the bracket to the lower floor pan cover, rear compartment floor pan cover, and medical supplies stowage compartment and remove bracket from vehicle.

220.1. Remove Seat Assemblies M170 (Added)

a. Front Seats. Tilt the seat forward until flat side of hinge pin is alined with slot in seat bracket (fig. 142.1) on floor pan cover, and lift seat out of bracket.

b. Wheel House Seats. Remove the four oval-head tapping screws and finish washers (fig. 158.2) that secure each of the two right wheel house cushions to the top of the right wheel house seat and remove cushions from within vehicle. Remove the five oval-head tapping screws and finish washers that secure each of the two left wheel house cushions to the top of the left wheel house seat and remove the cushions from the vehicle.

220.2. Remove Hand Brake Handle Assembly M170 (Added)

Refer to paragraph 190.1*b.*

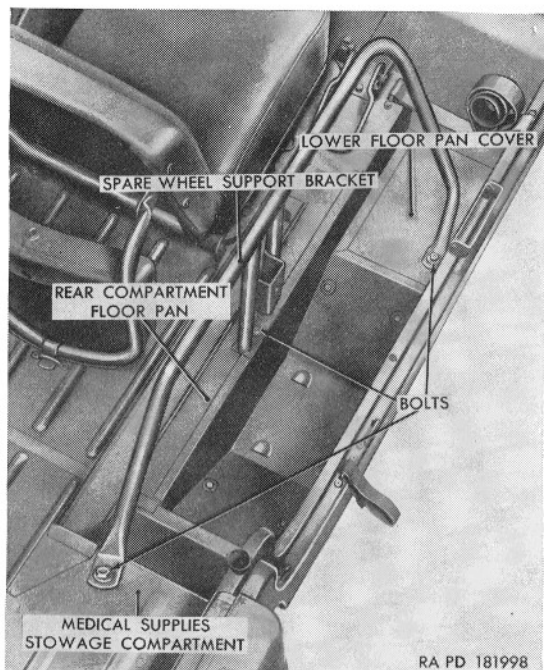


Figure 162.1. (Added) Spare wheel support bracket M170.

220.3. Remove Fuel Tank M170

(fig. 163.1)

(Added)

- a. Place a suitable container under the fuel tank. Remove the drain plug from the bottom of the tank and drain the fuel.
- b. Tilt the driver's seat forward and remove from vehicle.
- c. Unscrew the seven lockwasher screws securing the fuel tank units access plate to the floor of the vehicle.
- d. Unscrew the fuel line nut.
- e. Disconnect the cable bayonet connector from the fuel level sending unit.
- f. Place a stand or blocking under the tank making certain that such stand or blocking clears the fuel tank support strap.
- g. Remove the four nuts and flat washers from the studs on the fuel tank support strap attaching brackets at each end of the fuel tank, and remove the two fuel tank shields and support straps.
- h. Remove the stands or blocking and remove the tank from the vehicle.

223. Seat Assemblies

a. *Disassembly.*

* * * * *

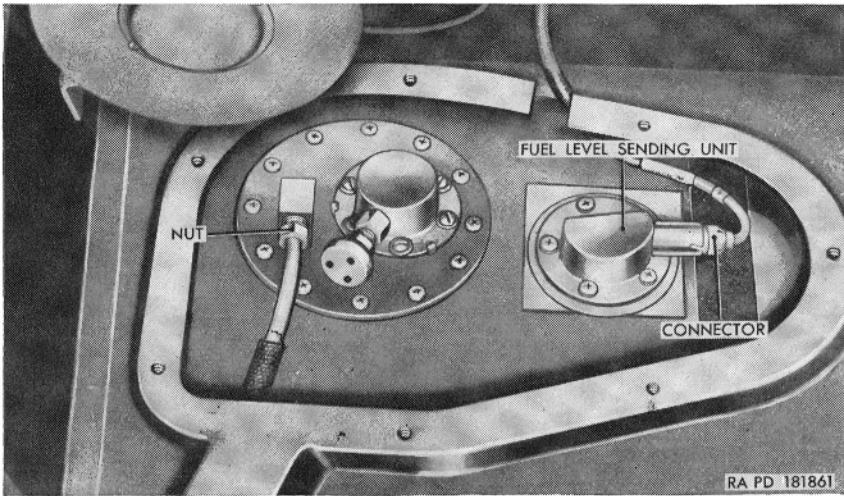


Figure 163.1. Fuel tank, fuel filter, and fuel level sending unit M170—installed—driver's seat and fuel tank units access plate—removed.

(1) *Front seats M38A1.*

* * * * *

(1.1) (Added) *Front seats M170.*

- (a) Remove the sheet metal screws securing the seat cushions, seat backs, and crash pads to the seat frames.
- (b) Remove the coverings from the cushions, backs, and crash pads. Remove the padding and springs.

* * * * *

c. Assembly.

(1) *Front seats M38A1.*

* * * * *

- (1.1) (Added) *Front seats M170.* Install the padding and springs on the inside of the coverings for the cushions, backs, and crash pads. Position the cushions, backs, and crash pads on the seat frames and secure with sheet metal screws.

* * * * *

224. Fuel Tank Assembly

(fig. 172)

a. Disassembly. It is not necessary to disassemble fuel tank unless inspection (*b* below) reveals damage. Refer to TM 9-804A for removal of fuel tank from body **on the M38A1 or paragraph 220.3 on the M170.**

* * * * *

c. Assembly.

* * * * *

- (4) *Install fuel tank in vehicle.* Refer to TM 9-804A on the M38A1 or paragraph 227.1 on the M170.

226. Install Spare Wheel Support and Fuel Can Bracket Assemblies

a. Spare Wheel Support Bracket M38A1 (fig. 162).

* * * * *

a.1. (Added) Spare Wheel Support Bracket M170 (fig. 162.1).

Position the spare wheel support bracket in the right side of the body to the rear of the passenger seat and secure with three bolts to the body.

* * * * *

226.1. Install Seat Assemblies M170

(Added)

a. Front Seats. Position the hinge pins on the seats over the seat brackets (fig. 142.1) on the front floor pan cover. Tilt the seat forward until the flat side of the hinge pin is alined with the slot in the bracket. Install the pin in the bracket and tilt the seat to the rear of the vehicle.

b. Wheel House Seats. Position the two left wheel house seat cushions (fig. 158.2) in the vehicle and install the five oval-head tapping screws and finish washers in each cushion securing the cushions to the vehicle. Position the two right wheel house seat cushions in the vehicle and install four oval-head screws and washers in each cushion.

227.1. Install Fuel Tank M170

(Added)

a. Install new antisqueak strips to top of tank with adequate adhesive.

b. Raise the tank between the fuel tank support strap attaching brackets and support the tank with stands or suitable blocking. Make certain the fuel tank support straps will clear stands or blocking when being installed.

Caution: Make sure fuel line and fuel level sending unit cable are accessible through the fuel tank units access plate opening and are free from binding.

c. Install the two fuel tank support straps and one tank shield on the fuel tank support bracket studs at one end of the fuel tank and start a 3/8-inch nut with washer on the studs. Repeat the procedure at the opposite end of the tank and tighten all four nuts evenly.

d. Remove the stands or blocking.

e. Install the drain plug in the bottom of the tank.

f. Connect the bayonet connector of the fuel level sending unit cable to the sending unit (fig. 163.1).

- g. Install the fuel line nut to the fuel filter assembly (fig. 163.1).
- h. Position the fuel tank units access plate over the opening in the floor pan and secure with seven $\frac{1}{4}$ x $\frac{1}{2}$ lockwasher screws.
- i. Install the driver's seat by tilting seat forward until pin on seat frame will slide into brackets on the floor of the vehicle. Then tilt seat to the rear of the vehicle.

228. Description

* * * * *

b. *Fenders* (figs. 174 and 175). Both front fenders are similar in design and construction. They are secured to the body, radiator guard assembly, and frame on the **M38A1** in an identical manner. **On the M170 the fender-to-frame bracket has been removed and the fender is not secured to the frame.** The left front fender, however, mounts the blackout driving light and guard, horn, and clips for securing the vehicle wiring harness and fuel line.

236. Description

(fig. 177)

* * * * *

b. *Radiator Guard With Hinges and Hood Liner M38A1.*

* * * * *

c. (Added) *Radiator Guard With Hood Liner M170* (fig. 177.1). The radiator guard is of stamped and welded construction. It is provided with recess-type housings for mounting the service headlights and signal blackout marker and service parking lights (fig. 177.1). The single bolt, washers, and nut (fig. 16.3) secure the radiator guard to the frame. On each side, at the top of the radiator guard, are tie rods (fig. 16.2) connecting the radiator guard to the cowl. Two bolts (fig. 16.1) on each side of the radiator secure the deflector of the guard assembly to the radiator. The hood liner (fig. 16.2) is attached to the upper edge of the guard with split rivets.

237. Data

* * * * *

b. *Radiator Guard With Hinges and Hood Liner M38A1.*

* * * * *

c. (Added) *Radiator Guard With Hood Liner M170.*

Width (across service headlight recesses)----- 39 in.
 Height----- 20 $\frac{1}{8}$ in.
 Depth----- 8 in.

241. Disassembly M38A1

(fig. 177)

* * * * *

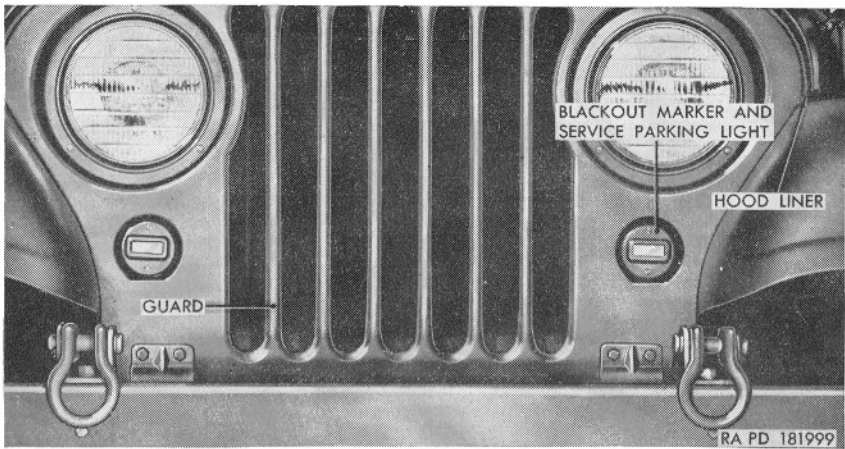


Figure 177.1. (Added) Radiator guard with hood liner M170.

241.1. Disassembly M170

(Added)

Disassembly procedure for the M170 is the same as that for the M38A1 (par. 241) except that *b* and *e* are omitted.

242. Inspection and Repair M38A1

* * * * *

242.1. Inspection and Repair M170

(Added)

Inspection and repair procedures for the M170 are the same as for the M38A1 (par. 242) except that *a* (3) and (4) and *b* (2) are omitted.

243. Assembly M38A1

(fig. 177)

* * * * *

243.1. Assembly M170

(Added)

Assembly procedure for the M170 is the same as that for the M38A1 (par. 243) except that *c* and *d* are omitted.

244. Description

a. Frame M38A1 (fig. 178).

* * * * *

a.1. (Added) Frame M170. The frame is constructed of two heavy channel steel side rails and five cross members. The side rails and cross members are reinforced with welded plates. Two rear reinforcements of a V-shaped design are welded to the side rails and rear cross member. All cross members, except engine rear support cross member,

are welded to the side rails. A stabilizer bar is mounted at the front and the rear of the frame to reduce swaying. Two front lifting shackles and a bumper bar are mounted on the front of the frame. A towing pintle, two rear lifting shackles, and two bumperettes are mounted on the rear of the frame. Brackets and supports provide mounts for the engine, body, shock absorbers, springs, and stabilizer bars.

* * * * *

245. Data M38A1

* * * * *

245.1. Data M170

(Added)

Material----- Steel, SAE 950
 Length (overall)----- 148.44 in.
 Width (outside edges of side rails)----- 29.25 in.
 Number of cross members----- 5
 Distance between right and left front holddown brackets----- 31.50 in.
 Distance from center line of frame to center line of holddown bracket. 16.063 in.

[AG 451.2 (9 Aug 54)]

BY ORDER OF THE SECRETARIES OF THE ARMY AND THE AIR FORCE :

M. B. RIDGWAY,
General, United States Army,
Chief of Staff.

OFFICIAL :
 JOHN A. KLEIN,
Major General, United States Army,
The Adjutant General.

N. F. TWINING,
Chief of Staff, United States Air Force.

OFFICIAL :
 E. E. TORO,
Colonel, United States Air Force,
Air Adjutant General.

DISTRIBUTION :

Active Army:

Tec Svc, DA (1)	OS Sup Agencies (1)
Ord Bd (2)	Ord PG (10)
AFF (3)	Ord Arsenals (10)
Army AA Comd (2)	Mil Dist (1)
OS Maj Comd (5)	Ord Proc Dist (10)
OS Base Comd (2)	MAAG (1)
Log Comd (3)	Mil Msn (1)
MDW (1)	Units organized under following T/O
Armies (3)	& E's:
Corps (2)	9-12A, Hq & Hq Co, Maint & Sup Gp
Div (2)	Ammo (1)
Ord Gp (2)	9-17, Ammo Co, Army (1)
Ord Bn (2)	9-45A, Sp Wpns Spt or Depot Bn (1)
Ord Co (2)	9-46A, Hq & Hq Det, Sp Wpns Spt or
Ft & Cp (2)	Depot Bn (1)
Gen & Br Svc Sch (2)	9-47A, Sp Wpns Spt or Depot Co (1)
Ord Sch (50)	9-49, Sp Wpns Dir Spt Co (1)
PMST Ord ROTC units (1)	9-57A, Fld Sup Co (1)
Gen Depots (2)	9-227, GM Dir Spt Co (1)
Ord Sec, Gen Depots (10)	9-347A, Tire Rep Co (1)
Ord Depots (10)	9-367, Sup Depot Co (1)
POE (2)	9-387, Ammo Depot Co (1)

NG: Same as active Army except allowance is one copy for each unit.

USAR: None.

Unless otherwise noted, distribution applies to ConUS and overseas.

For explanation of abbreviations used, see SR 320-50-1.