

# SECTION 6 TIRE CARRIERS

## SECTION INDEX

	Page	Page
Inside Tire Carrier—Cherokee-Wagoneer	6-1	6-2
Swing-Out Tire Carrier—CJ Models		

## INSIDE TIRE CARRIER—CHEROKEE-WAGONEER

### GENERAL

The Model W-674 Inside Tire Carrier Kit should contain the necessary components shown in figure 6-1. Before beginning work, check to see that all items have been included.

### INSTALLATION

All references to bolt and nut sizes in the following procedures are in inches. Bolt sizes are indicated in

diameter followed by length. For example, 3/8 x 1 represents a bolt that is 3/8-inch in diameter and one inch long. Whenever fine thread (NF) bolts are used, the number of threads per inch are also included in the size description, such as 1/2-20 x 3. In some cases, additional or replacement fasteners may be required to complete a kit installation. When necessary, obtain the required parts from your stock.

- (1) Assemble tire mount to tire carrier support by installing 3/8 x 1 hex-head bolts, lockwashers, and hex nuts. Tighten nuts to 18 foot-pounds (24 N•m) torque.
- (2) Install 7/16 x 1-1/2 hex-head bolts, lockwashers,

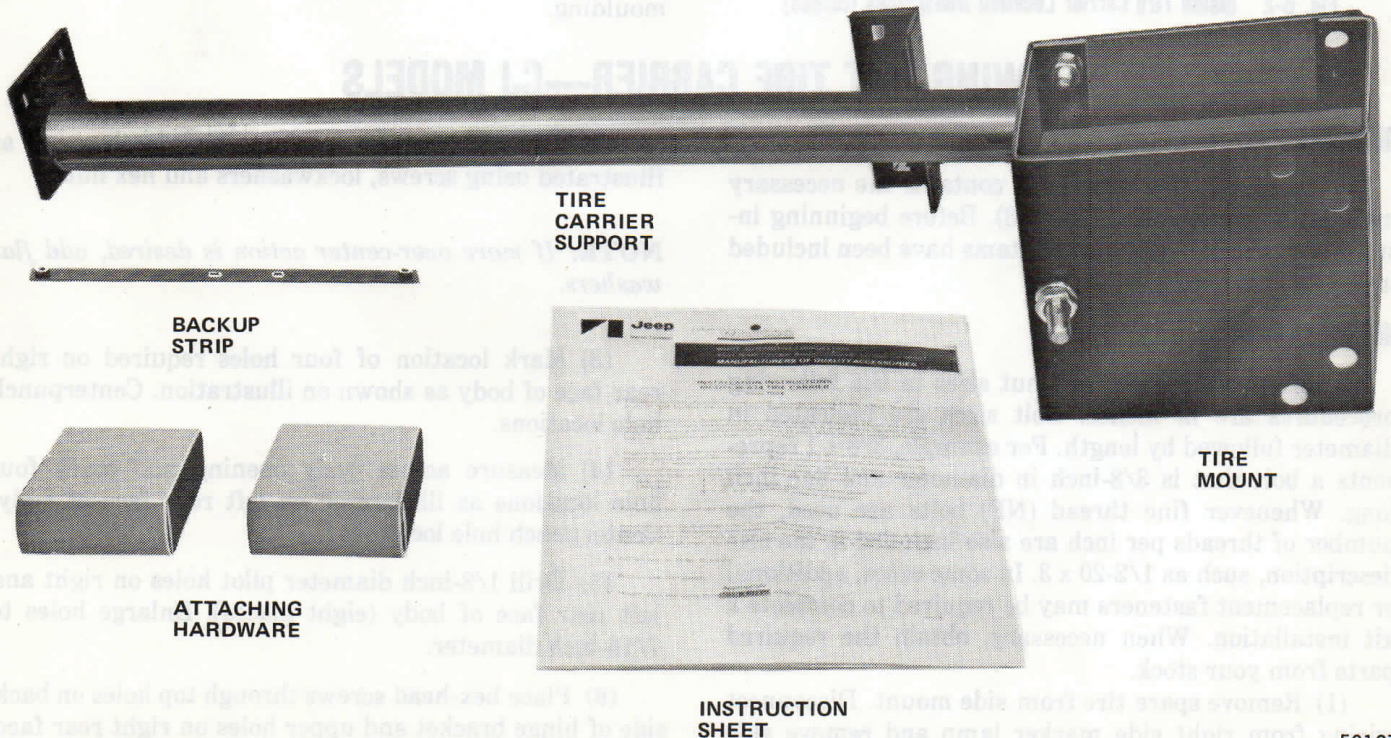
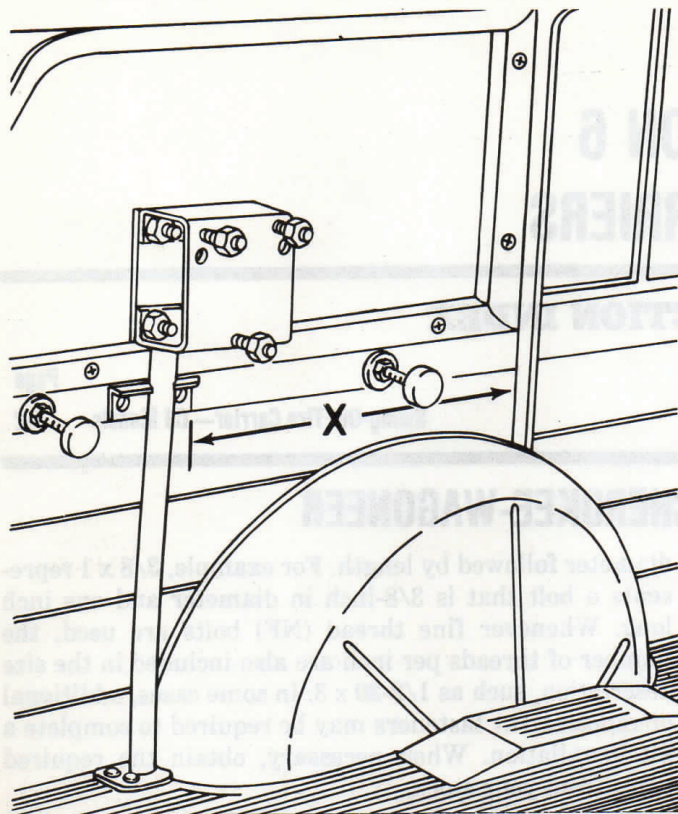


Fig. 6-1 Inside Tire Carrier Kit Components

and jamnuts in holes shown in figure 6-2. Tighten nuts to 40 to 50 foot-pounds (55 to 69 N•m) torque.



WAGONEER	X - 21 3/4
CHEROKEE	X - 21 3/4 WITH SNAP-IN VINYL COVERED TRIM PANEL
	X - 21 WITH SHEET METAL TRIM PANEL
	J50128

Fig. 6-2 Inside Tire Carrier Location Dimensions (Inches)

(3) Position tire carrier (fig. 6-2). Fit base plate into corner at rear of wheelhousing and out against side panel. Locate upper portion of tire carrier as shown, measuring "X" dimension from forward end of angle bracket welded to tubular support to forward end of removable side trim panel.

(4) When properly positioned, use square holes in tire carrier as locating template to mark four bolt holes. Remove tire carrier.

(5) Remove side trim panel and drill 3/8-inch diameter holes at locations previously marked.

(6) Use backup strip to locate bumper pad holes by inserting 3/8 bolts through square holes in strip and 3/8-inch holes in window moulding. Make sure longer end of strip is facing toward front of vehicle.

(7) Mark locations through weldnuts on strip. Remove strip and drill two 7/16-inch diameter holes in window moulding.

(8) Install tire carrier by inserting 3/8 x 1 carriage-head bolts through carrier and holes drilled in step (5). Assemble flat washers, lockwashers, and nuts on bolts extending through floor. Assemble backup strip (with weldnuts away from carrier), lockwashers, and nuts on bolts. Tighten nuts to 18 foot-pounds (24 N•m) torque.

(9) Install side trim panel.

(10) Install nuts and large flatwashers onto bumper pads. Install pads into backup strip through previously drilled holes, run in approximately 1-1/2-inch from moulding.

(11) Mount spare tire to tire mount.

(12) Adjust bumper pads snugly against tire. Tighten locknuts against flatwashers and window moulding.

## SWING-OUT TIRE CARRIER—CJ MODELS

### GENERAL

The swing-out tire carrier kit contains the necessary installation components (fig. 6-3). Before beginning installation, check to see that all items have been included in the kit.

### INSTALLATION

All references to bolt and nut sizes in the following procedures are in inches. Bolt sizes are indicated in diameter followed by length. For example, 3/8 x 1 represents a bolt that is 3/8-inch in diameter and one inch long. Whenever fine thread (NF) bolts are used, the number of threads per inch are also included in the size description, such as 1/2-20 x 3. In some cases, additional or replacement fasteners may be required to complete a kit installation. When necessary, obtain the required parts from your stock.

(1) Remove spare tire from side mount. Disconnect wiring from right side marker lamp and remove side mounted tire bracket.

(2) Assemble rubber bumpers and latch guide as illustrated using screws, lockwashers and hex nuts.

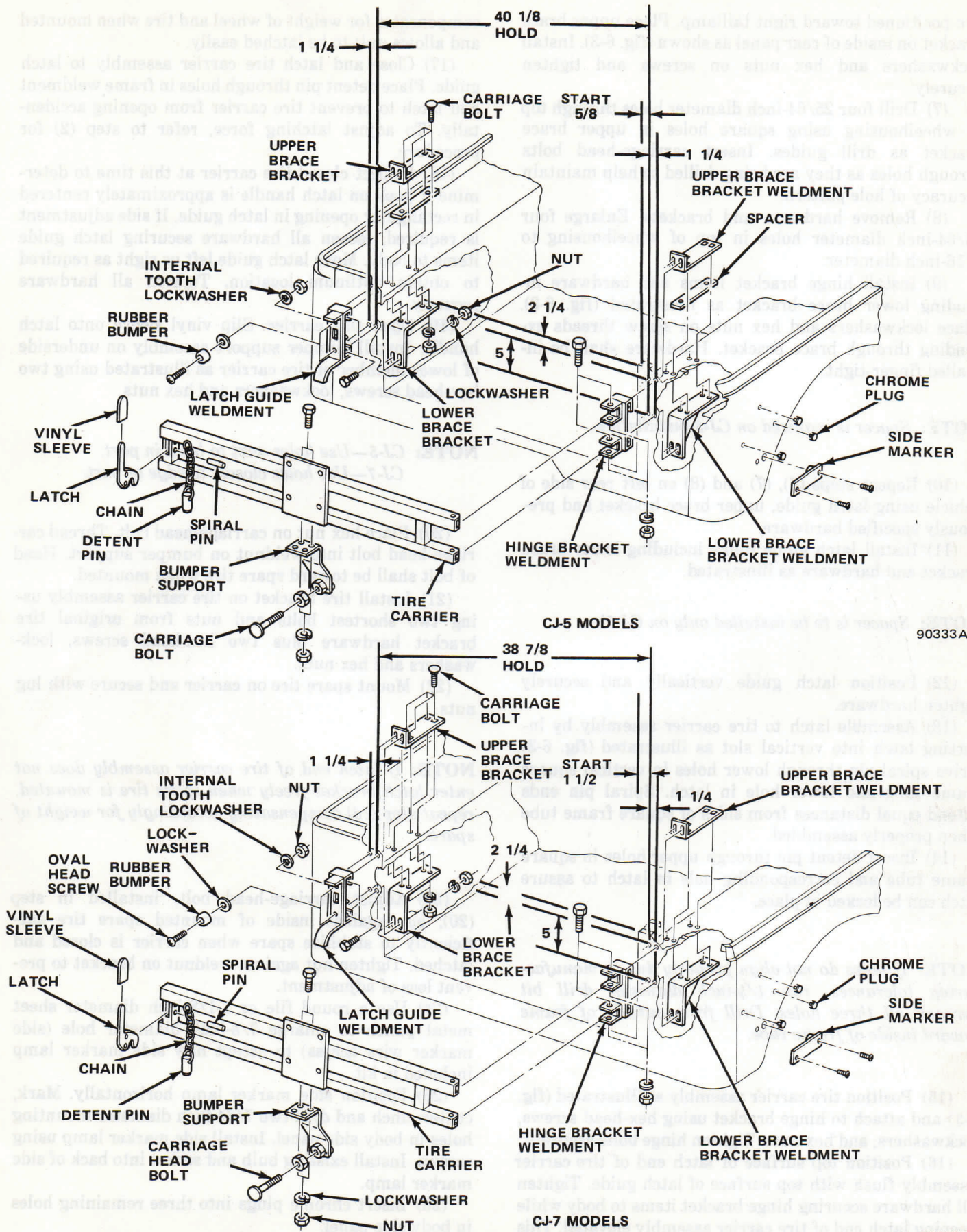
**NOTE:** *If more over-center action is desired, add flat washers.*

(3) Mark location of four holes required on right rear face of body as shown on illustration. Centerpunch hole locations.

(4) Measure across body opening and mark four hole locations as illustrated on left rear face of body. Centerpunch hole locations.

(5) Drill 1/8-inch diameter pilot holes on right and left rear face of body (eight places). Enlarge holes to 7/16-inch diameter.

(6) Place hex-head screws through top holes on back side of hinge bracket and upper holes on right rear face of body. Be sure small stop blocks welded inside yokes



90333A

90333B

Fig. 6-3 Swing-Out Tire Carrier Installation (Inches)

are positioned toward right taillamp. Place upper brace bracket on inside of rear panel as shown (fig. 6-3). Install lockwashers and hex nuts on screws and tighten securely.

(7) Drill four 25/64-inch diameter holes through top of wheelhousing using square holes in upper brace bracket as drill guides. Insert carriage-head bolts through holes as they are being drilled to help maintain accuracy of hole pattern.

(8) Remove hardware and brackets. Enlarge four 25/64-inch diameter holes in top of wheelhousing to 7/16-inch diameter.

(9) Install hinge bracket items and hardware including lower brace bracket as illustrated (fig. 6-3). Place lockwashers and hex nuts on screw threads extending through brace bracket. Hardware shall be installed finger-tight.

**NOTE:** *Spacer is required on CJ-5 installation.*

(10) Repeat steps (6), (7) and (8) on left rear side of vehicle using latch guide, upper brace bracket and previously specified hardware.

(11) Install latch guide items including lower brace bracket and hardware as illustrated.

**NOTE:** *Spacer is to be installed only on CJ-5's.*

(12) Position latch guide vertically and securely tighten hardware.

(13) Assemble latch to tire carrier assembly by inserting latch into vertical slot as illustrated (fig. 6-3). Drive spiral pin through lower holes in vertical square frame tube and lower hole in latch. Spiral pin ends extend equal distances from sides of square frame tube when properly assembled.

(14) Insert detent pin through upper holes in square frame tube and corresponding hole in latch to assure latch can be locked in place.

**NOTE:** *If holes do not align properly due to manufacturing tolerances, run 1/4-inch diameter drill bit through all three holes. Drill from outside of frame toward inside of frame tube.*

(15) Position tire carrier assembly as illustrated (fig. 6-3) and attach to hinge bracket using hex-head screws, lockwashers, and hex nuts. Tighten hinge bolts securely.

(16) Position top surface of latch end of tire carrier assembly flush with top surface of latch guide. Tighten all hardware securing hinge bracket items to body while keeping latch end of tire carrier assembly elevated. This

compensates for weight of wheel and tire when mounted and allows unit to be latched easily.

(17) Close and latch tire carrier assembly to latch guide. Place detent pin through holes in frame weldment and latch to prevent tire carrier from opening accidentally. To adjust latching force, refer to step (2) for procedure.

(18) Inspect closed tire carrier at this time to determine if hook on latch handle is approximately centered in rectangular opening in latch guide. If side adjustment is required, loosen all hardware securing latch guide items to body. Move latch guide left or right as required to obtain optimum location. Tighten all hardware securely.

(19) Open tire carrier. Slip vinyl sleeve onto latch handle. Install bumper support assembly on underside of lower member of tire carrier as illustrated using two hex-head screws, lockwashers and hex nuts.

**NOTE:** *CJ-5—Use holes next to bend in part.*

*CJ-7—Use holes closest to edge of part.*

(20) Place hex nut on carriage-head bolt. Thread carriage-head bolt into weldnut on bumper support. Head of bolt shall be toward spare tire when mounted.

(21) Install tire bracket on tire carrier assembly using two shortest bolts and nuts from original tire bracket hardware plus two hex-head screws, lockwashers and hex nuts.

(22) Mount spare tire on carrier and secure with lug nuts.

**NOTE:** *If latch end of tire carrier assembly does not enter latch bracket freely when spare tire is mounted, repeat step (16) compensating accordingly for weight of spare.*

(23) Adjust carriage-head bolt, installed in step (20), out against inside of mounted spare tire sufficiently to stabilize spare when carrier is closed and latched. Tighten nut against weldnut on bracket to prevent loss of adjustment.

(24) Use a round file or 1-1/8-inch diameter sheet metal punch to enlarge 7/8-inch diameter hole (side marker wire access) to accept new side marker lamp included in kit.

(25) Position side marker lamp horizontally. Mark, centerpunch and drill two 7/64-inch diameter mounting holes in body side panel. Install side marker lamp using screws. Install existing bulb and socket into back of side marker lamp.

(26) Insert chrome plugs into three remaining holes in body side panel.