

Torx-Head Fasteners

Various sizes of internal and external hex-lobular (Torx) head fasteners are used as attaching hardware on numerous components and assemblies in 1981 Jeep vehicles. Due to the ever-changing usage and application of automotive fasteners, Torx-head fasteners may not be identified as such throughout this manual. However, these fasteners may be removed or installed using Tool Set J-25359-C.

Service Manual Improvements

You are encouraged to report any errors, omissions, or recommendations for improving this publication. A form provided for this purpose is included at the end of this chapter.

1982 MODEL JEEP VEHICLES

CJ/Scrambler Models

Two CJ models are available for 1982: the 83.4-inch wheelbase CJ-5, model 85, and the 93.4-inch wheelbase CJ-7, model 87. See figures A-1 and A-2. Beyond the 10-inch difference in wheelbase, CJ-5 and CJ-7 differ primarily in available options. CJ-7 models are available with an automatic transmission, soft top with metal doors, moulded hardtop and moon roof. These options are not available on CJ-5 models.

The Renegade package continues to be offered on CJ models for 1982. The package features "Tracker PG" L78x15 tubeless tires mounted on 7-inch wide, styled-steel wheels along with unique exterior and interior trim.

The Laredo package is available on CJ models for 1982. It includes unique exterior paint and decals; chrome front bumper, rear bumperettes, mirror heads and arms, and body side steps; 15-inch x 7-inch styled-steel wheels with 9Rx15 "Wrangler" radial tires, and a deluxe interior with tachometer and clock.

A new CJ-7 Limited package is available for 1982. The package features special ride components, chrome front bumper, rear bumperettes, mirror heads and arms, bodyside steps; 15-inch x 7-inch white styled-steel wheels with black "Arriva" radial tires and a deluxe interior with special carpeting and padding.

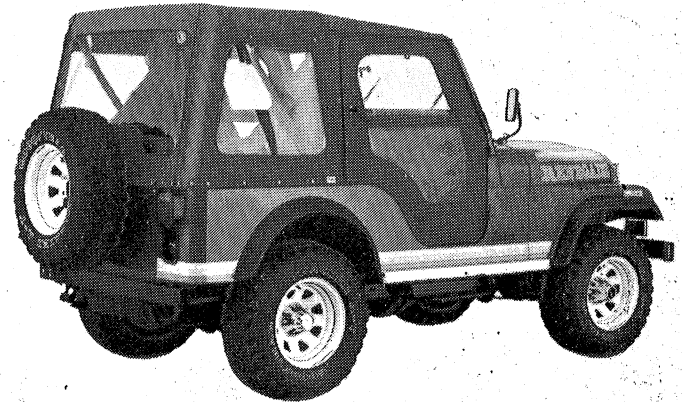


Fig. A-1 CJ-5 Model

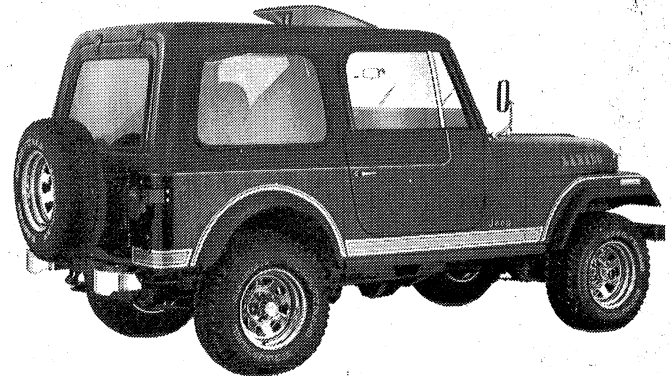


Fig. A-2 CJ-7 Model

The Scrambler is a 103.4-inch wheelbase, half-cab, sport/utility vehicle with a truck-type cargo box at the rear. Four body versions are available which are: a base model with open top configuration, a fabric top model with metal doors (fig. A-3), a fabric top model with fabric doors, and a hardtop model with metal doors (fig. A-4).

The standard powertrain for Scrambler models is the 151 CID four-cylinder engine, four-speed manual transmission, 3.54 ratio axles and the model 300 transfer case. A six-cylinder engine, automatic transmission, different ratio axles, and a Trac-Lok rear axle differential are all available as options.



Fig. A-3 Scrambler Hardtop with Metal Doors

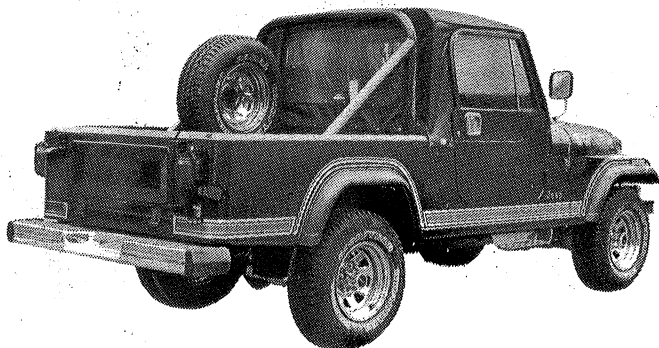
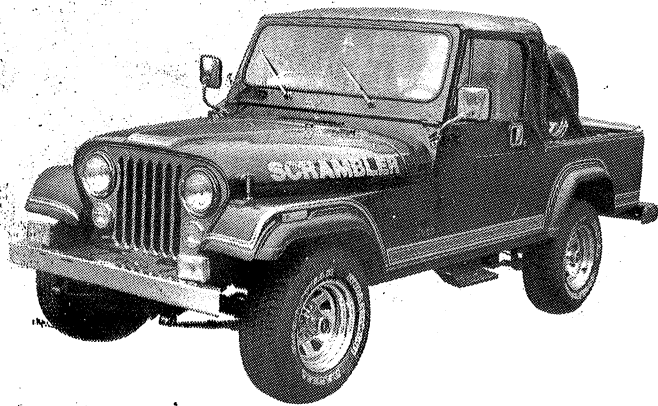


Fig. A-4 Scrambler Soft Top with Metal Doors

Cherokee Models

For 1982, three Cherokee models are offered: the base 2-door model 16, the Wide Track model 17, and the 4-door model 18. See figures A-5, A-6 and A-7.

The 2-door model 16 is a dual purpose vehicle in the sports/utility class featuring an all-steel top, front disc brakes and foldup rear seat as standard.

The Wide Track model 17 features steel wheel opening extensions to accommodate L78x15 tubeless tires mounted on 8-inch wide, styled-steel wheels.

The 4-door model 18 features the convenience of rear doors in a station wagon-type vehicle. The model 18 has the same grille and taillamps as other Cherokee models.

Two trim packages are offered for 1982 Cherokee models. The Chief and Laredo packages are available on the model 17. Both packages feature deluxe interior trim and carpeting, chrome bumpers, and unique exterior trim.

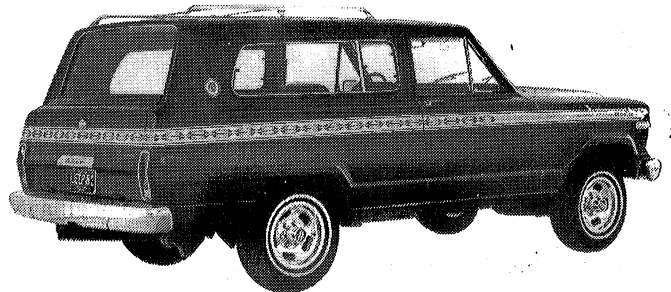


Fig. A-5 Cherokee Model 16

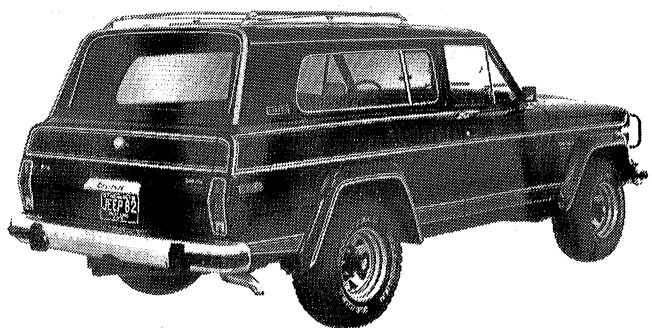


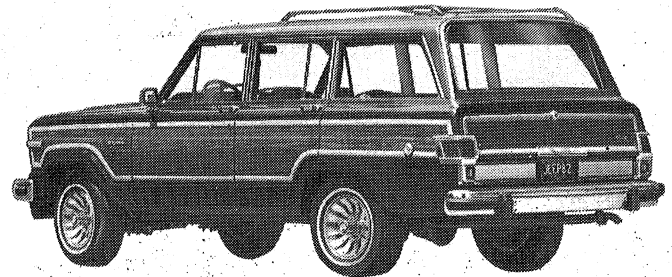
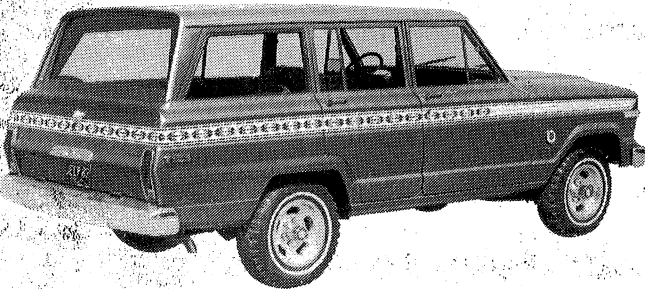
Fig. A-6 Cherokee Model 17



Fig. A-7 Cherokee Model 18



Fig. A-8 Wagoneer Model 15



Wagoneer Model

For 1982, one Wagoneer model is offered: the model 15. The 4-door Wagoneer station wagon features deluxe interior trim and carpeting, chrome bumpers and power steering. A luxury trim package, the Limited, is offered. It features a leather and corduroy interior, unique exterior woodgrain with vinyl surround mouldings, forged aluminum wheels, and automatic transmission with Quadra-Trac full-time 4-wheel drive as standard. See figure A-8.

Truck Models

The truck models are available in two series: the J-10 Series model 24, 25 and 26, and the J-20 Series model 27 (figs. A-9, A-10 and A-11).

The J-10 models differ from the J-20 model in gross vehicle weight (GVW) ratings. For 1982, the J-10 Series GVW for models 24, 25 and 26 is 6200 while the J-20 model 27 GVW remains at 6800 with optional GVW of 7600 and 8400.

The Truck models are also identified by wheelbase. Models 24 and 25 have a 118.8-inch wheelbase; models 26 and 27 have a 130.8-inch wheelbase. The following chart outlines Truck differences by wheelbase and GVW ratings.

Truck Model Identification

Series	Model Number	Wheelbase (Inches)	Gross Vehicle Weight Rating		
			Standard	Option 1	Option 2
J-10	24	118.8	6200	—	—
J-10	25	118.8	6200	—	—
J-10	26	130.8	6200	—	—
J-20	27	130.8	6800	7600	8400

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Many trim packages are available on Truck models: Custom, Honcho, Laredo, Pioneer, Sportside and Honcho Sportside. The Custom and Pioneer package are available on all Trucks and features deluxe interior and exterior trim. The Honcho package is only available on model 25 and features deluxe interior and unique exterior trim, and 15-inch tires mounted on 8-inch wide, styled-steel wheels.

The Laredo package is available on model 25 trucks. The package includes unique exterior decals, 10R x 15 "Wrangler" radial tires mounted on 8-inch wide chrome styled-steel wheels, chrome rear step bumper, and deluxe interior.

The Sportside Truck package is available on model 25 and features a flare side box with bottom rear fenders and deluxe interior trim.

The Honcho Sportside package is available on model 25 and features a flare side box with bottom rear fender and special interior and exterior trim and decals.

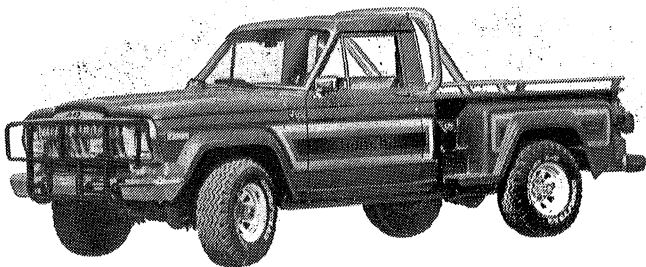


Fig. A-9 J-10 Truck Model 24

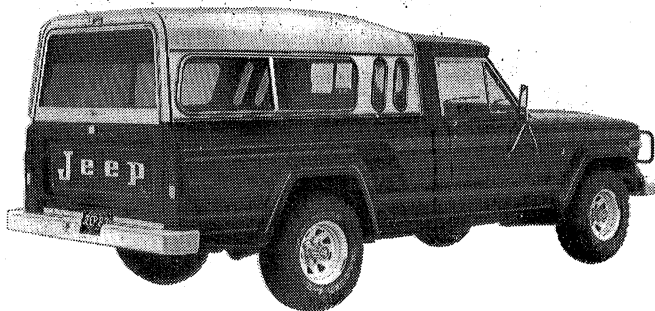


Fig. A-10 J-10 Truck Model 25

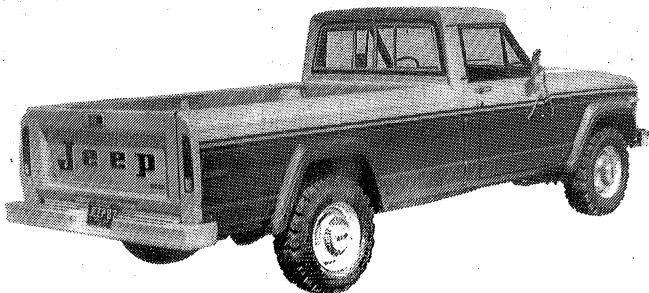
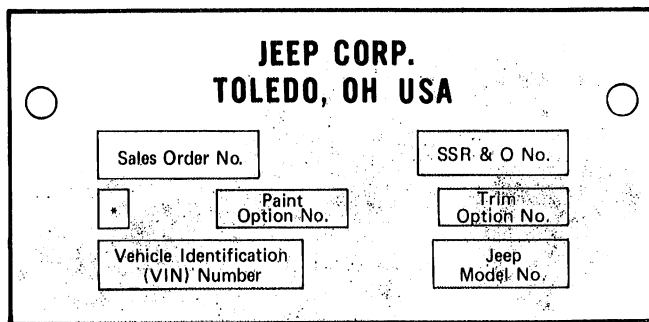


Fig. A-11 J-20 Truck Model 27

VEHICLE IDENTIFICATION

Vehicle Identification Plate

A metal vehicle identification plate is affixed to the left-hand side of the dash panel (fig. A-12). The plate shows the Sales Order Number; the Vehicle Identification Number (VIN); Special Sales Request & Order (SSR & O) Number; Paint Option Number; Trim Option Number; and the Jeep Model Number.



*Disregard — for factory use only

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Fig. A-12 Vehicle Identification Plate

Vehicle Identification Number (VIN)

All Vehicle Identification Numbers contain 17 characters in a combination of letters and numbers that provide specific information about the vehicle. VIN's for all Jeep vehicles can be decoded using the following chart.

Special Sales Request and Order (SSR & O) Number

Certain Jeep vehicles are built to special order with other than standard parts or equipment. To assist the dealer in ordering correct replacement parts, an SSR & O number is assigned and a permanent record of the deviation is maintained by the factory. The SSR & O number is embossed on the Vehicle Identification Plate as shown in figure A-12.

Parts ordering procedure for SSR & O parts is detailed in the Jeep Parts Catalog.

Paint Option Number

The Paint Option Number is embossed on the Vehicle Identification Plate in the location shown in figure A-12.

Paint is not available from the factory. All colors shown below are available from Ditzler or DuPont paint jobbers by requesting the paint intermix formula. All colors are available from Sherwin-Williams in factory package cans. Option No. 999 indicates special paint. To obtain information on special paint, contact your Jeep Parts Distribution Center and provide the Vehicle Identification Number (VIN).

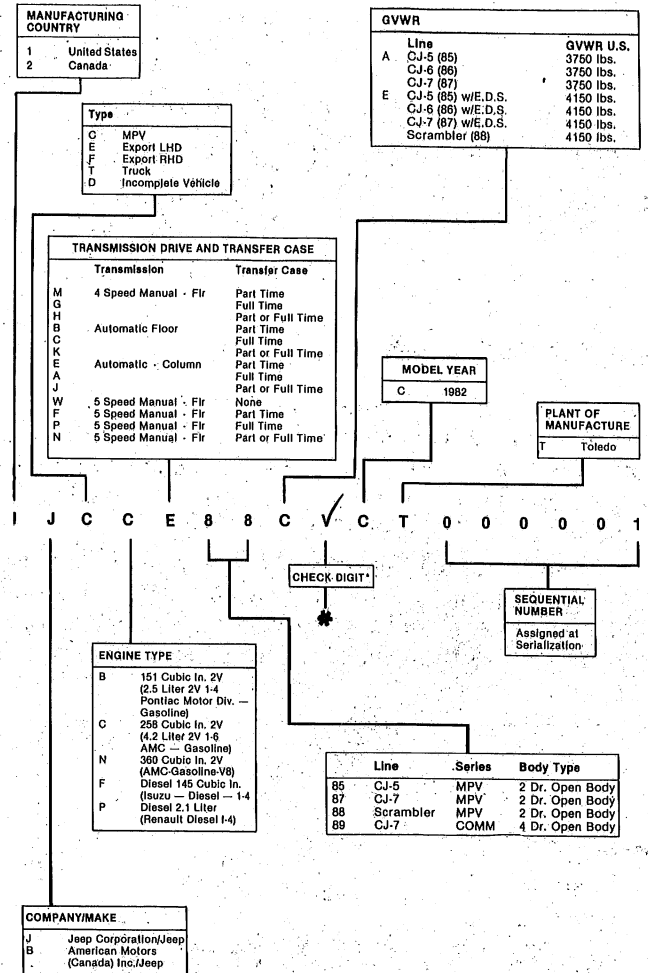
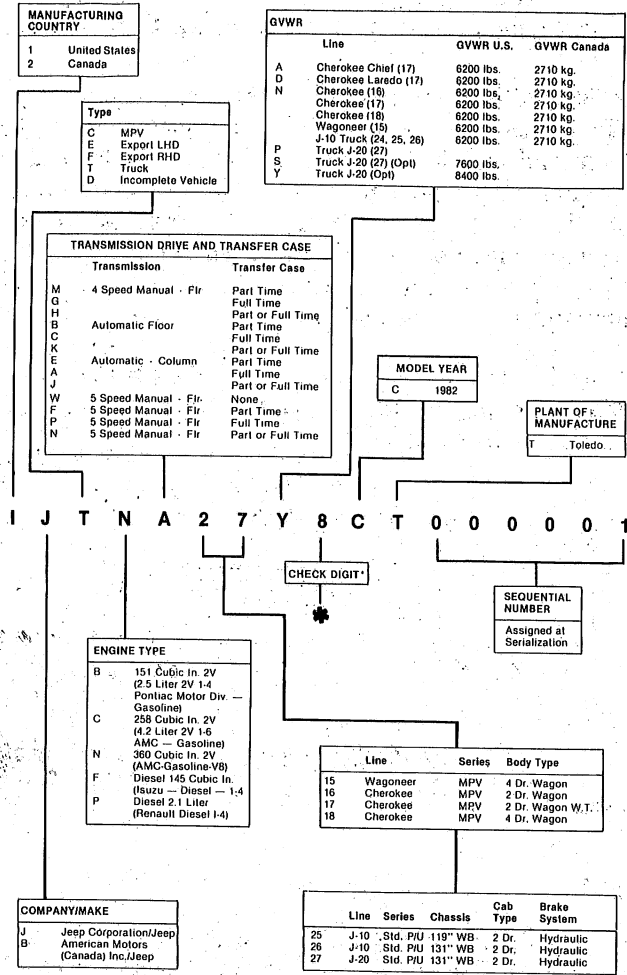
Trim Option Number

The Trim Option Number is embossed on the Vehicle Identification Plate as shown in figure A-12. Consult your Jeep Parts Catalog for trim ordering procedure. Special trim is indicated by trim option number 999. To obtain information on special trim, contact your Jeep Parts Distribution Center and provide the Vehicle Identification Number (VIN).

VIN Decoding Chart

Cherokee, Wagoneer and Truck

CJ and Scrambler



*NOTE: In order to comply with EEC directives 76/114 and 78/507, the check digit will be replaced with the letter 'E' in the VIN of all ECE vehicles.

*NOTE: In order to comply with EEC directives 76/114 and 78/507, the check digit will be replaced with the letter 'E' in the VIN of all ECE vehicles.

STEP 1. Assign to each number in the vehicle identification number its actual mathematical value and assign to each letter the value specified for it in the following table:

TABLE I		
A-1	J-1	T-3
B-2	K-2	U-4
C-3	L-3	V-5
D-4	M-4	W-6
E-5	N-5	X-7
F-6	P-7	Y-8
G-7	R-9	Z-9
H-8	S-2	

STEP 2. Multiply the assigned value for each character in the vehicle identification number by the weight factor specified for it in Table II. Multiply the check digit by 0.

TABLE II	
Character	Weight Factor
1st	8
2nd	7
3rd	6
4th	5
5th	4
6th	3
7th	2
8th	10
9th (check digit)	0
10th	9
11th	8
12th	7
13th	6
14th	5
15th	4
16th	3
17th	2

STEP 3. Add the resulting products and divide the total by 11. The remainder is the check digit. If the remainder is 10, the check digit is X.

Example

Vehicle Identification	1 J T N A 2 7 Y 8 C T 0
Number Character	0 0 0 0 1
Assigned Value	1 1 3 5 1 2 7 8 0 2 3 0 0
	0 0 1
Multiply by	8 7 6 5 4 3 2 10 0 9 8 7
Weight Factor	6 5 4 3 2
Add Products	8 + 7 + 18 + 25 + 4 + 6 + 14 + 80 + 0 + 18 + 24 + 0 + 0 + 0 + 0 + 0 + 2 = 206
Divided by 11	206/11 = 18 8/11
Check Digit	8

Paint Option Numbers

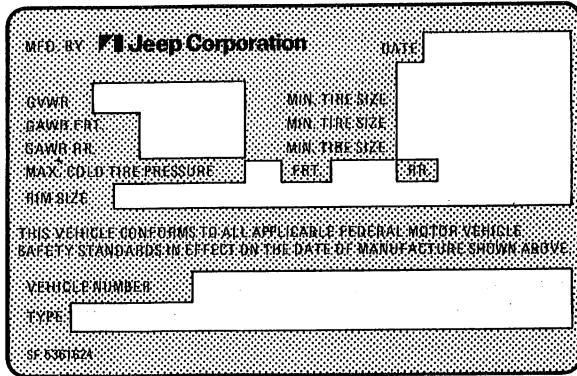
Paint Option Number	Color
P1	Classic Black
9B	Olympic White
OM	Dark Brown Metallic
1C	Sherwood Green Metallic
1E	Copper Brown Metallic
1H	Chestnut Brown Metallic
1K	Deep Maroon Metallic
1M	Oriental Red
2A	Mist Silver Metallic
2B	Sun Yellow
2C	Slate Blue Metallic
2D	Deep Night Blue
2H	Topaz Gold Metallic
2J	Jamaican Beige

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Safety Certification Sticker

A safety sticker is placed on all vehicles to show that they meet federal motor vehicle safety certification standards (fig. A-13). It lists the VIN, month and year built, Gross Vehicle Weight Rating (GVWR), and Gross Axle Weight Rating (GAWR).

The sticker is located on the inside panel directly below the door opening on the drivers side on CJ-5, CJ-7 and Scrambler models. On Cherokee, Wagoneer and Truck models, it is on the door lock pillar on the driver's side.



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Fig. A-13 Safety Sticker

KEYS AND LOCKS

Two square-headed and two oval-headed keys are provided, as applicable, with each vehicle. The square-headed (code D) key operates the ignition switch, front door locks, and Cherokee/Wagoneer tailgates. The oval-headed (code E) key operates the glove box lock. Each key has a code number stamped on the knock-out plug. In the event a key is lost, a new key can be made by converting the key code number to a key biting number. Key biting numbers can be obtained from a key cutting machine manufacturer's cross-reference list or by contacting your Zone office.

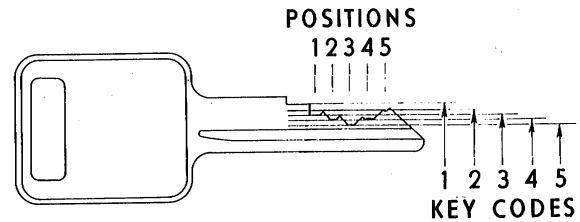
If a key is lost and the key code number is unknown, the correct number can be identified by the

Zone office from the vehicle identification number.

If the ignition key is lost and the key code number is not available, a new key can be made by removing a door lock and taking it to a locksmith. The locksmith can determine the key biting by inserting a blank key into the lock cylinder and cutting the blank to match the tumblers.

If the ignition switch lock is defective and the key is available, the cylinder and individual tumblers can be ordered and matched to the existing key. To determine the tumbler arrangement, place the key over the template (fig. A-14). Starting from the left, read across the horizontal lines and record first digit (number 1 position) of the key code. Continue this process for subsequent numbers 2 through 5.

NOTE: The template shown in figure A-14 may be used to determine the key biting code of a key for which the key code number is unknown.



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Fig. A-14 Key Coding Template

TOWING

General

A conventional towing sling is recommended for use on all Jeep vehicles because of its stability and reduced likelihood of damage. The following instructions apply only to this device. When using other than sling-type towing equipment, be sure to follow the manufacturer's instructions.

A safety chain system that is completely independent of the lifting and towing attachment must be used. Be careful when installing safety chains so that they do not damage the vehicle.

If additional ground clearance is required, a towing dolly may be used. The end of the vehicle to be placed on the dolly should be lifted with the same equipment as when towing.

CJ and Scrambler Models

Front Towing—Front End Raised

Part Time Transfer Case

Do not exceed a towing speed of 30 mph (48 km/h) and do not exceed a towing distance of 15 miles (24 km).

Index and disconnect rear propeller shaft or place a dolly under rear wheels.

Rear Towing—Rear End Raised

Part Time Transfer Case

Do not exceed a towing speed of 30 mph (48 km/h) and do not exceed a towing distance of 15 miles (24 km). Index and disconnect front propeller shaft or place a dolly under front wheels.

If ignition key is available, turn ignition to Off position to unlock steering column. Clamp the steering wheel in the straight-ahead position. Do not use the steering column lock as a substitute for a clamping device.

If ignition key is not available, place front wheels on a dolly.

Cherokee-Wagoneer-Truck Models

Front Towing—Front End Raised

Part Time Transfer Case—Manual Transmission

Do not exceed a towing speed of 30 mph (48 km/h) and do not exceed a towing distance of 15 miles (24 km).

(1) Shift transmission into gear and the transfer case into N (Neutral).

Part Time Transfer Case—Automatic Transmission

Do not exceed a towing speed of 30 mph (48 km/h) and do not exceed a towing distance of 15 miles (24 km).

- (1) Shift automatic transmission into Park.
- (2) Shift transfer case into Neutral position.

Quadra-Trac—Automatic Transmission

Do not exceed a towing speed of 30 mph (48 km/h) and do not exceed a towing distance of 15 miles (24 km).

- (1) Turn ignition switch to Off position to unlock steering wheel.
- (2) Shift automatic transmission into Park.
- (3) Shift transfer case into Neutral position.

Rear Towing—Rear End Raised

Part Time Transfer Case—Manual Transmission

Do not exceed a towing speed of 30 mph (48 km/h) and do not exceed a towing distance of 15 miles (24 km).

If ignition key is available, turn ignition to Off position to unlock steering column. Clamp the steering wheel in the straight-ahead position. Do not use steering column lock as a substitute for a clamping device. Shift transmission into gear and transfer case into Neutral. Turn selective drive hubs to 4 x 4/LOCK position.

If ignition key is not available, place front wheels on a dolly.

Part Time Transfer Case—Automatic Transmission

Do not exceed a towing speed of 30 mph (48 km/h) and do not exceed a towing distance of 15 miles (24 km).

If ignition key is available, turn ignition to Off position to unlock steering column. Clamp the steering wheel in the straight-ahead position. Do not use steering column lock as a substitute for a clamping device. Shift transmission into Park and transfer case into Neutral. Turn selective drive hubs to 4 x 4/LOCK position.

If ignition key is not available, place front wheels on a dolly.

Quadra-Trac—Automatic Transmission

Do not exceed a towing speed of 30 mph (48 km/h) and do not exceed a towing distance of 15 miles (24 km).

If ignition key is available, turn ignition to Off position to unlock steering column. Clamp steering wheel in the straight-ahead position. Do not use steering column lock as a substitute for a clamping device. Shift transmission into Park and transfer case into Neutral.

If ignition switch is not available, place front wheels on a dolly.

Safety Precautions

- Whenever possible, tow the vehicle from the rear to prevent damage to the transmission or rear axle.
- Secure loose or protruding parts of a damaged vehicle.
- The end of the vehicle being towed should be lifted a minimum of four inches off the ground. Check opposite end for adequate ground clearance.
- Always use a safety chain system that is independent of the lifting and towing attachment.
- Do not allow any of the towing equipment to bear on the fuel tank.
- Do not go under the vehicle while it is lifted by the towing equipment.
- Do not allow passengers to ride in a towed vehicle.
- Always observe all state and local laws regarding such items as warning signals, night illumination, speed, etc.
- Do not attempt a towing operation which could jeopardize the operator, any bystanders or other motorists.

CJ and Scrambler Models

Front (Refer to Figure A-15)

- (1) Attach J-hooks over axle outboard of springs.
- (2) Place towbar under spring shackles.
- (3) Attach safety chains around spring shackles.

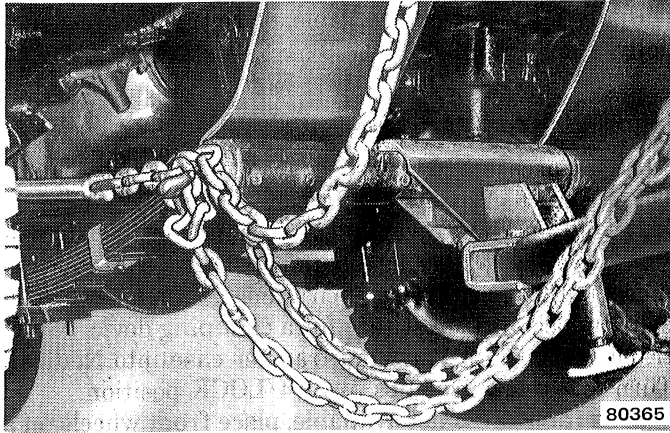


Fig. A-15 Front Towing—CJ and Scrambler Models

Rear (Refer to Figure A-16)

- (1) Attach J-hooks around axle outboard of springs.
- (2) Place towbar under bumper plate.
- (3) Attach safety chains around spring shackles.

CAUTION: To prevent damage to drive line members shift the transmission and transfer case into the correct position as outlined in the general towing instructions.

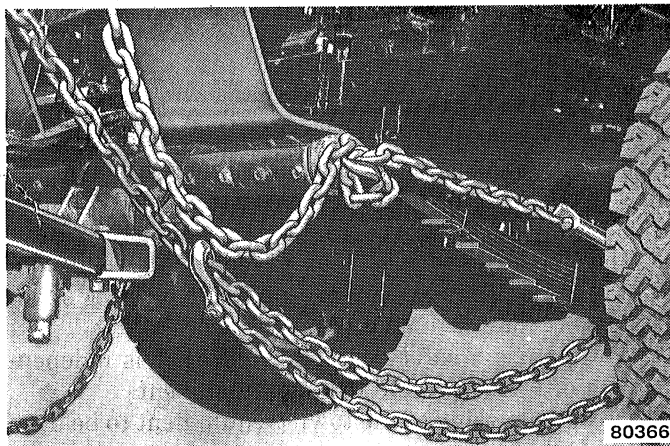


Fig. A-16 Rear Towing—CJ and Scrambler Models

Cherokee and Wagoneer Models

Front (Refer to Figure A-17)

- (1) Attach J-hooks around axle outboard of shock absorbers.
- (2) Place towbar under spring shackles.
- (3) Attach safety chains around spring shackles.

CAUTION: To prevent damage to drive line members, shift the transmission and transfer case into the correct position as outlined in the general towing instructions.

Rear (Refer to Figure A-18)

- (1) Attach J-hooks around axle outboard of shock absorber brackets.

- (2) Place towbar under bumper.
- (3) Attach safety chains around frame rails.

CAUTION: To prevent damage to drive line member, shift the transmission and transfer case into the correct position as outlined in the general towing instructions.

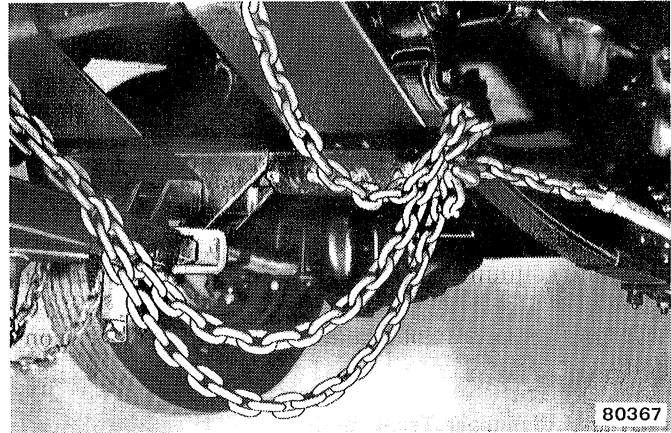


Fig. A-17 Front Towing—Cherokee and Wagoneer Models

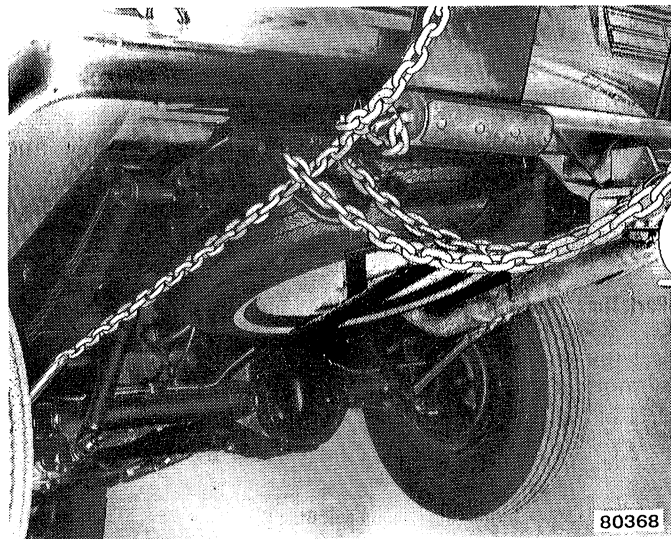


Fig. A-18 Rear Towing—Cherokee and Wagoneer Models

Truck Models

Front (Refer to Figure A-19)

- (1) Attach J-hooks around axle outboard of shock absorbers.
- (2) Place towbar under spring shackles.
- (3) Attach safety chains around spring shackles.

CAUTION: To prevent damage to drive line members, shift the transmission and transfer case into the correct position as outlined in the general towing instructions.

Rear (Refer to Figure A-20)

- (1) Attach J-hooks around axle outboard of shock absorbers.

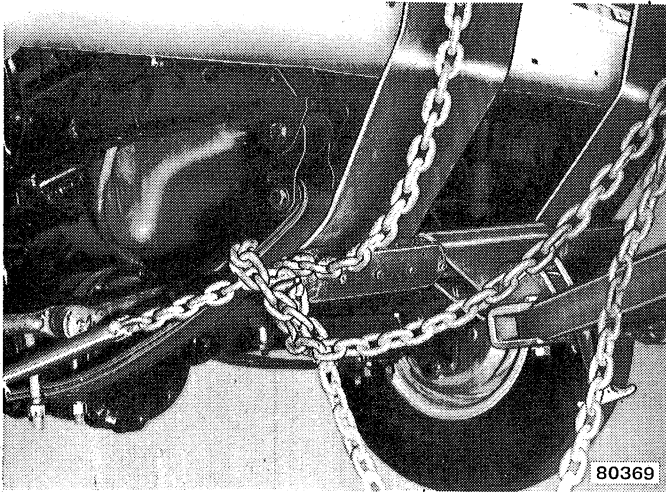


Fig. A-19 Front Towing—Truck Models

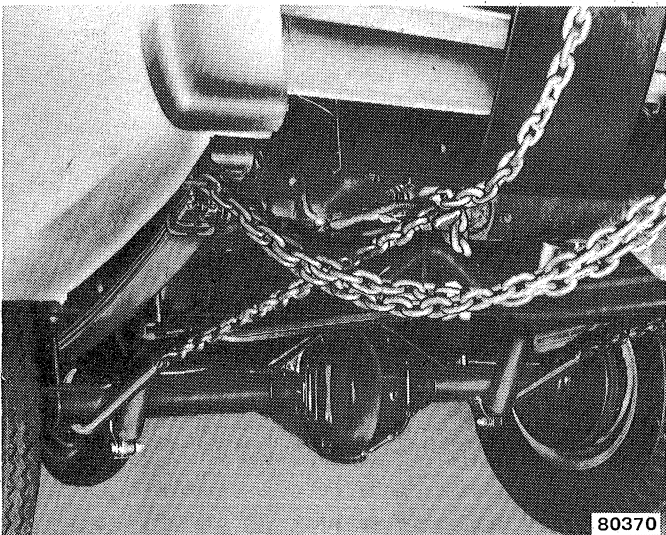


Fig. A-20 Rear Towing—Truck Models

- (2) Place towbar under frame cross rail.
- (3) Attach safety chains around spring shackles.

CAUTION: To prevent damage to drive line members, shift the transmission and transfer case into the correct position as outlined in the general towing instructions.

CONVERSION OF ENGLISH AND METRIC MEASURES

Cubic Centimeters to Inches: To change cubic centimeters to cubic inches, multiply cubic centimeters by 0.061 (cc x 0.061 equals cubic inch).

Cubic Inches to Centimeters: To change cubic inches to cubic centimeters, multiply cubic inches by 16.39 (cubic inch x 16.39 equals cc).

Liters to Cubic Inches: To change liters to cubic inches, multiply liters by 61.02 (liter x 61.02 equals cubic inches).

Cubic Inches to Liters: To change cubic inches to liters, multiply cubic inches by 0.01639 (cubic inches x 0.01639 equals liters).

Cubic Centimeters to Liters: To change centimeters to liters, divide by 1000 (simply move the decimal point three figures to the left).

Liters to Cubic Centimeters: To change liters to cubic centimeters, move the decimal point three figures to the right.

Miles to Kilometers: To change miles to kilometers, multiply miles by 1.609 (miles x 1.609 equals kilometers).

Kilometers to Miles: To change kilometers to miles, multiply kilometers by 0.6214 (kilometers x 0.6214 equals miles).

Pounds to Kilograms: 1 pound equals 0.4536 kg.

Kilograms to Pounds: 1 kg equals 2.2046 pounds.

CJ and Scrambler General Dimensions-Inches (cm)

	CJ-5	CJ-7	Scrambler
Wheelbase	83.4 (211.8)	93.4 (237.2)	103.4 (262.6)
Overall Length — Body	144.2 (366.3)① 139.3 (353.8)②	153.2 (389.1) 153.2 (389.1)	166.2 (422.1)③ 177.2 (450.1)④
Overhang — Front	23.5 (59.7)	23.5 (59.7)	23.5 (59.7)
— Rear	37.4 (95.0)① 32.4 (82.3)②	36.3 (92.2)	39.3 (99.8)③ 50.3 (127.8)④
Overall Width	59.9 (152.2)① 68.2 (173.2)②	65.3 (165.9)	65.3 (165.9)
Overall Height — Open Body	70.0 (177.8)	70.9 (180.1)	70.8 (179.8)
— Soft Top	71.6 (181.9)	71.9 (182.6)	71.5 (181.6)
— Hard Top	N/A	71.0 (180.3)	71.6 (181.9)
Step Height — Front	27.8 (70.6)	27.1 (68.8)	27.4 (69.6)
Front Tread	52.4 (133.1)	55.8 (141.7)	55.8 (141.7)
Rear Tread	50.5 (128.3)	55.1 (140.0)	55.1 (140.0)
Minimum Ground Clearance	7.5 (19.1)	7.5 (19.1)	7.5 (19.1)
Minimum Turning Diameter-ft. (meters) curb to curb	33.5 (10.2)	35.8 (10.9)	38.8 (11.8)
Effective Leg Room			
Front (Accelerator)	37.9 (96.3)	39.1 (99.3)	39.1 (99.3)
Rear (Minimum)	30.5 (77.5)	35.0 (88.9)	—

① With solid backpanel and rear mounted spare tire.
② With tailgate and side mounted spare tire.

③ With roll bar mounted spare tire.
④ With rear mounted swing-away spare tire carrier.

CJ and Scrambler General Dimensions-Inches (cm) Cont'd.

	CJ-5	CJ-7	Scrambler
Hip Room — Front	55.4 (140.7)	53.8 (136.7)	53.8 (136.7)
— Rear	36.0 (91.4)	36.0 (91.4)	—
Shoulder Room — Front	55.4 (140.7)	53.8 (136.7)	53.8 (136.7)
— Rear	55.4 (140.7)	56.3 (143.0)	—
Effective Head Room			
Front			
Soft Top	39.8 (101.1)	40.6 (103.1)	40.6 (103.1)
Hard Top	40.8 (103.6)	39.9 (101.3)	39.9 (101.3)
Rear Hard Top	40.9 (103.9)	39.6 (100.6)	—
Cargo Floor Height	26.8 (68.1)	26.7 (67.8)	26.9 (68.3)
Cargo Capacity — cubic feet (meters)	10.2 (0.29) ^⑤	16.0 (0.45) ^⑤	30.4 (0.86) ^⑤
Cargo Space			
Length at Floor	40.2 (102.1)	46.8 (118.9)	61.5 (156.2)
Width at Wheelhouse/Floor	36.0 (91.4)	36.0 (91.4)	36.0 (91.4)
Width of Tailgate Opening	35.8 (90.9)	34.5 (87.6)	34.5 (87.6)

⑤ With rear seat removed.

NOTE: Length, width and overhang dimensions reflect rear mounted spare tire standard on CJ-5 and CJ-7, except CJ-5 with tailgate and side mounted spare tire. Height dimensions reflect roll bar as standard, which affects open body heights.

Cherokee, Wagoneer and Truck General Dimensions-Inches (cm)

	Cherokee			Wagoneer	Truck		
	Model 16 2-Dr.	Model 17 2-Dr.	Model 18 4-Dr.	Model 15	Model 25	Model 26	Model 46
Wheelbase	108.7 (276.1)	108.7 (276.1)	108.7 (276.1)	108.7 (276.1)	118.8 (301.8)	130.8 (332.2)	130.8 (332.2)
Overall Length — Body	186.4 (473.5)	186.4 (473.5)	186.4 (473.5)	186.4 (473.5)	194.0 (492.8)	206.0 (523.2)	206.0 (523.2)
Overhang — Front	31.3 (79.5)	31.3 (79.5)	31.3 (79.5)	31.3 (79.5)	31.3 (79.5)	31.3 (79.5)	31.3 (79.5)
— Rear	46.4 (117.9)	46.4 (117.9)	46.4 (117.9)	46.4 (117.9)	43.9 (111.5)	43.9 (111.5)	43.9 (111.5)
Overall Width	74.8 (190.1)	78.9 (200.4)	74.8 (190.1)	74.8 (190.1)	78.9 (200.4)	78.9 (200.4)	78.9 (200.4)
Overall Height	66.4 (168.7)	67.9 (172.5)	66.4 (168.7)	66.4 (168.7)	69.0 (175.3)	69.5 (176.5)	70.0 (177.8)
Step Height — Front	19.1 (48.5)	20.4 (51.8)	19.1 (48.5)	19.1 (48.5)	20.6 (52.3)	21.0 (53.3)	21.4 (54.4)
— Rear	—	—	20.0 (50.8)	20.0 (50.8)	—	—	—
Front Tread	59.4 (150.9)	65.3 (165.9)	59.4 (150.9)	59.4 (150.9)	63.3 (160.8)	63.3 (160.8)	64.0 (162.6)
Rear Tread	57.8 (146.8)	62.3 (158.2)	57.8 (146.8)	57.8 (146.8)	63.8 (162.1)	63.8 (162.1)	65.4 (166.1)
Min. Ground Clearance	7.2 (18.3)	8.2 (20.8)	7.2 (18.3)	7.2 (18.3)	7.5 (19.1)	7.5 (19.1)	8.2 (20.8)
Min. Turning Dia.-Ft. (meters) curb to curb	37.7 (11.5)	39.4 (12.0)	37.7 (11.5)	37.7 (11.5)	40.6 (12.4)	44.5 (13.6)	44.5 (13.6)
Effective Leg Room							
Front (Accelerator)	40.5 (102.9)	40.5 (102.9)	40.5 (102.9)	40.5 (102.9)	40.5 (102.9)	40.5 (102.9)	40.5 (102.9)
Rear (Minimum)	37.0 (94.0)	37.0 (94.0)	37.0 (94.0)	37.0 (94.0)	—	—	—
Hip Room — Front	60.5 (153.7)	60.5 (153.7)	60.5 (153.7)	60.5 (153.7)	60.5 (153.7)	60.5 (153.7)	60.5 (153.7)
— Rear	60.9 (154.7)	60.9 (154.7)	60.9 (154.7)	60.9 (154.7)	—	—	—
Shoulder Room — Front	58.3 (148.1)	58.3 (148.1)	58.3 (148.1)	58.3 (148.1)	58.3 (148.1)	58.3 (148.1)	58.3 (148.1)
— Rear	58.3 (148.1)	58.3 (148.1)	58.3 (148.1)	58.3 (148.1)	—	—	—
Effective Head Room							
Front	37.1 (94.2)	37.1 (94.2)	37.1 (94.2)	37.1 (94.2)	40.2 (102.1)	40.2 (102.1)	40.2 (102.1)
Rear	36.8 (93.5)	36.8 (93.5)	36.8 (93.5)	36.8 (93.5)	—	—	—
Cargo Floor Height	24.8 (63.1)	26.4 (67.1)	24.8 (63.1)	24.8 (63.1)	26.8 (68.0)	28.0 (71.1)	27.8 (70.6)
Cargo Capacity — Cubic feet (meters)	95.1 (2.69) [ⓓ]	95.1 (2.69) [ⓓ]	95.1 (2.69) [ⓓ]	95.1 (2.69) [ⓓ]	68.0 (1.93)	77.7 (2.20)	77.7 (2.20)
Cargo Space							
Overall Length	—	—	—	—	86.5 (219.7)	98.5 (250.2)	98.5 (250.2)
Length at Floor	81.6 (207.3)	81.6 (207.3)	81.6 (207.3)	81.6 (207.3)	83.6 (212.3)	95.6 (242.8)	95.6 (242.8)
Width at Wheelhouse	44.3 (112.5)	44.3 (112.5)	44.3 (112.5)	44.3 (112.5)	50.0 (127.0)	50.0 (127.0)	50.0 (127.0)
Width at Floor	60.9 (154.7)	60.9 (154.7)	60.9 (154.7)	60.9 (154.7)	68.0 (172.7)	68.0 (172.7)	68.0 (172.7)
Width at Tailgate Opening	54.9 (139.4)	54.9 (139.4)	54.9 (139.4)	54.9 (139.4)	57.2 (145.3)	57.2 (145.3)	57.2 (145.3)
Height of Slides and Tailgate	—	—	—	—	20.5 (52.1)	20.5 (52.1)	20.5 (52.1)

ⓓ — With rear seat removed.

1982 Powertrain-Driveline Combinations

Vehicle/Model	Engine CID	Trans. Model	49 State Axle Ratio	Axle Ratio: California	Transfer Case	Trailer Towing Option
Scrambler and CJ-7 Models	4-151-2V	T-4	3.54 - 4.09*	Same	300 300	N.A. N.A.
	6-258-2V	T-4	2.73 - 3.31*			
	6-258-2V	T-176 T-5	2.73 - 3.31* 2.73 - 3.31*			
CJ-5 Models	6-258-2V	999	2.73 - 3.31*		300	N.A.
	4-151-2V	T-4	3.54 - 4.09*		300	N.A.
	6-258-2V	T-176	2.73 - 3.31*		300	N.A.
Cherokee Models: 16, 17, 18	4-151-2V	T-5	3.54 - 4.09*		300	N.A.
	6-258-2V	T-176 [Ⓢ]	2.73 - 3.31*	Same	208 [Ⓢ]	3.31
	6-258-2V	T-5	2.73 - 3.31*	Same	208/219	3.31
	6-258-2V	999	2.73 - 3.31*	Same	208/219	3.31
	8-360-2V	T-176 [Ⓢ]	2.73 - 3.31*	Same	208/219	3.31
Wagoneer Model 15	8-360-2V	727	2.73 - 3.31*	Same	219	3.31
	6-258-2V	T-176 [Ⓢ]	2.73 - 3.31*	Same	208 [Ⓢ]	3.31
	6-258-2V	T-5	2.73 - 3.31*	Same	208/219	3.31
	6-258-2V	999	2.73 - 3.31*	Same	208/219	3.31
	6-258-2V	727	2.73 - 3.31*	Same	208/219	3.31
	8-360-2V	T-176	2.73 - 3.31*	Same	208	3.31
Truck Models 25, 26	8-360-2V	727	2.73 - 3.31*	Same	208/219	3.31
	6-258-2V	T-176 [Ⓢ]	2.73 - 3.31*	Same	208 [Ⓢ]	3.31
	6-258-2V	T-5	2.73 - 3.31*	Same	208/219	3.31
	6-258-2V	999	2.73 - 3.31*	Same	208/219	3.31
	6-258-2V	727	2.73 - 3.31*	Same	208/219	3.31
	8-360-2V	T-176	2.73 - 3.31*	Same	208 [Ⓢ]	3.31
Truck Model 27	8-360-2V	727	2.73 - 3.31*	Same	208 [Ⓢ]	3.31
	8-360-2V	T-18	2.73 - 3.31*	Same	208/219	3.31

ⓈN.A. California
 Note: Trac-Loc and Free Wheeling Hubs N.A. with Auto/Quadra-Trac.
 *Optional

Metric System—SI

The International System of Units (Système International d'Unités) officially abbreviated "SI" in all languages – the modern metric system

QUANTITY	EXAMPLES OF APPLICATIONS	METRIC UNIT	SYMBOL	QUANTITY	EXAMPLES OF APPLICATIONS	METRIC UNIT	SYMBOL
Length	Dimensions	meter	m	Celsius Temperature	General use	degree Celsius	°C
	Tire rolling circumference			Thermodynamic Temperature	General use	kelvin	k
	Turning circle/radius			Electric Current	General use	ampere milliamperere microampere	A mA µA
	Braking distance			Electric Potential Difference (Electromotive Force)	General use	kilovolt volt millivolt microvolt	kV V mV µV
Area	Greater than 999 meters	kilometer	km	Electric Resistance	General use	megohm kilohm ohm	MΩ kΩ Ω
	Dimensions	millimeter	mm	Electric Capacitance	General use	farad microfarad picofarad	F µF pF
	Depth of surface finish	micrometer	µm	Fuel Consumption	Vehicle performance	liter per 100 kilometer	l/100 km
Volume	Glass & Fabrics	square centimeter	cm ²	Oil Consumption	Vehicle performance	liter per 1000 kilometer	l/1000 km
	Brake & Clutch linings			Stiffness	Linear stiffness	kilonewton per meter	kN/m
Volume Flow	Radiator area etc.			Tire Revolutions	Tire Data	revolution per kilometer	rev/km
	Small areas	square millimeter	mm ²	Pressure	Tire Coolant Lubricating oil Fuel pump delivery Engine compression Manifold vacuum Brake line (hydraulic) Car heating & ventilation Barometric pressure	kilopascal	kPa
Time Interval	Car Luggage Capacity	cubic meter	m ³	Luminous Intensity	Bulbs	candela	cd
	Measurement of elapsed time	second minute hour day	s min h d	Mass	Vehicle mass Legal load rating General use Small masses	megagram (1000 kg) kilogram gram milligram	t kg g mg
Velocity	Engine Capacity	liter	l	Density	General use	kilogram per cubic meter gram per cubic centimeter kilogram per liter	kg/m ³ g/cm ³ kg/l
	Vehicle fluid capacity	cubic centimeter	cm ³	Force	Pedal effort Clutch spring force Handbrake lever effort etc.	newton	N
Acceleration & Deceleration	Gas & Liquid	liter per second	l/s	Moment of Force (Torque)	Tightening Torque	newton meter	N•m
	General use	meter per second kilometer per hour	m/s km/h	Power, Heat Flow Rate	General use Bulbs Alternator output Engine performance Starter motor performance	watt kilowatt	W kW
Frequency	General use	meter per second squared	m/s ²	U.S.A./METRIC COMPARISON			
	Electronics	hertz kilohertz megahertz	Hz kHz mHz	QUANTITY	USA	METRIC – SYMBOL	
Rotational Speed	General use	revolution per minute revolution per second	rpm rps	Length	Inch-Foot-Mile	Meter	m
	General use	meter per second squared	m/s ²	Weight (mass)	Ounce-Pound	Kilogram	Kg
Mass	Vehicle mass	megagram (1000 kg)	t	Area	Square inch/Foot	Square Meter	m ²
	Legal load rating			Volume-Dry	Cubic inch/Foot	Cubic Meter	m ³
Density	General use	kilogram	kg	Liquid	Ounce-Pint-Quart-Gallon	Liter	l
	Small masses	gram milligram	g mg	Velocity	Feet Per Second	Meter per Second	m/s
Force	Pedal effort	newton	N	Road Speed	Miles Per Hour	Kilometer per Hour	km/h
	Clutch spring force			Force	Pound-Force	Newton	N
Moment of Force (Torque)	Handbrake lever effort etc.			Torque	Foot-Pounds	Newton meter	N•m
	Tightening Torque	newton meter	N•m	Power	Horsepower	Kilowatt	kW
Power, Heat Flow Rate	General use	watt	W	Pressure	Pounds Per Square Inch of Mercury	Kilopascal	kPa
	Bulbs	kilowatt	kW	Temperature	Degrees Fahrenheit	Degrees Kelvin and Celsius	K °C

