VEHICLE IDENTIFICATION - GENERAL INFORMATION

GENERAL

This publication contains the essential removal, installation, adjustment, and maintenance procedures for servicing all domestically marketed 1974 AMC Jeep vehicles. Details of new and revised components, systems, and service procedures are covered herein.

Nine models comprise the 1974 Jeep vehicle product lineup. The two-wheel drive DJ Series and the Commando Models have been canceled for 1974. All lines now carry the four-wheel drive capability.

A new model line - Cherokee - is introduced as a two-door vehicle with major unique body components. The chassis and body mechanical systems are essentially common with Wagoneer throughout.

J42680

Fig. A-1 1974 Cherokee

Wagoneer and Truck body styles are distinguished by minor appearance changes. Major changes in these lines have been confined to improving ride and handling characteristics, brake performance, and in chassis upgrading. Truck models have been rerated to comply with standard industry gross vehicle weight ratings.

A 401 CID V-8 engine is now available with Cherokee, Wagoneer, and Truck. Eight-cylinder engine upgrading includes new induction hardening of exhaust valve seats (was six-cylinder only) for greater service life. All engines can now operate with any type of normal fuel (gasoline) . . . regular grade, low-lead, or no-lead fuels.

Energy-absorbing bumpers are optional on all models (except trucks), and aluminum-styled wheels are available on all Jeep vehicles except J-20 Trucks.

CJ-5 AND CJ-6 MODELS

As in 1973, two four-wheel drive models are being offered - the open body CJ-5 (84-inch wheelbase) and CJ-6 (104-inch wheelbase). The two-wheel drive models, DJ-5 and DJ-6, are no longer available. The sporty CJ-5 Renegade, formerly available on a limited basis, is now a regular production package. New upgraded drum brakes include new drums, linings, master cylinder, and the addition of a proportioning valve.

J42681

Fig. A-2 1974 CJ-5 Renegade

CHEROKEE MODELS

The new Cherokee line consists of two new four-wheel drive models . . . the two-door Cherokee Model 16, and the two-door Cherokee S Model 17.

Cherokee is a strong new entry in the extremely fast-growing sport-utility market, having roominess, ruggedness, and ride and handling comparable to or better than its competition. Cherokee has many unique features to accent its youthful, sporty appeal plus Wagoneer quality. Chassis, mechanical components, and most sheet metal are common with Wagoneer. Front disc brakes and Quadra-Trac (full time four-wheel drive) with automatic transmission are among the many quality options available.

WAGONEER MODELS

As in 1973, two Wagoneer models are available, both with the 109-inch wheelbase.

For 1974, Quadra-Trac with automatic transmission is standard, and the 401 CID, 4 barrel V-8 engine is available as an option. The standard axle ratio is 3.07 (was 3.31); optional ratio is 3.54 (was 3.73).

Power train combinations are listed on a chart included in this section.

J42682

Fig. A-3 1974 Wagoneer

Mechanically, Wagoneers now have open-end type front axles, optional energy-absorbing front and rear bumpers, and an upgraded brake system including front disc brakes, new rear drums and linings, and a new master cylinder and combination valve. Optional variable-ratio power steering is available to replace the constant-ratio type, and to provide better cornering and maneuverability. A new windshield wiper system with articulating arms provides an improved wiper pattern. Other features include stronger steering connecting rods and sockets, a heavier-gauge gas tank with new center support straps, improved air conditioner output and distribution, longer front and rear multileaf springs for smoother ride.

TRUCK MODELS

Three models are available for 1974:

- Series J-10, Model 25, 119-inch wheelbase
- Series J-10, Model 45, 131-inch wheelbase
- Series J-20, Model 46, 131-inch wheelbase

J42683

Fig. A-4 1974 Truck

These models are now aligned by Gross Vehicle Weight Rating (GVWR) to conform to industry practice. Two basic series, J-10 and J-20, with optional GVW ratings, replace the 1973 lineup of six models with no GVWR options. Wheelbases are shortened by one inch due to relocation of the front axle. Following are the 1974 GVW ratings.

Series	Model Number	Wheelbase (Inches)	Gross Vehicle Weight Rating		
			Standard	Option 1	Option 2
J-10	25	119	5200	5600	--
J-10	45	131	5200	5600	--
J-20	46	131	6500	7200	8000

Quadra-Trac with automatic transmission is now standard or optional (see Power Train Combinations Chart) for all models and engines. Previously, Quadra-Trac was optional only for 5000 and 6000 GVW models with 360 CID V-8 engines.

The Dana 20, manual shift, four-wheel drive system continues standard except with 360-4V and 401-4V engines on J-10 models.

The 401-4V engine is a new option for all models.

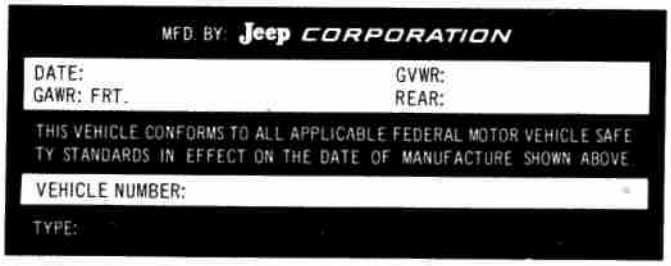
The standard axle ratio is 3.54, which replaces the 3.73 axle formerly used on J-10 models with V-8 engines.

VEHICLE IDENTIFICATION

Federal Safety Certification

A non-removable plastic label (fig. A-5) is affixed to all vehicles to certify compliance with federal motor vehicle safety standards. It lists the Vehicle Identification Number (VIN), the month and year built, Gross Vehicle Weight Rating (GVWR), and Gross Axle Weight Rating (GAWR).

On CJ-5 and CJ-6 models, the label is located on the instrument panel. On Cherokee, Wagoneer, and Truck models, it is located on the door lock pillar on the driver's side.



J41028

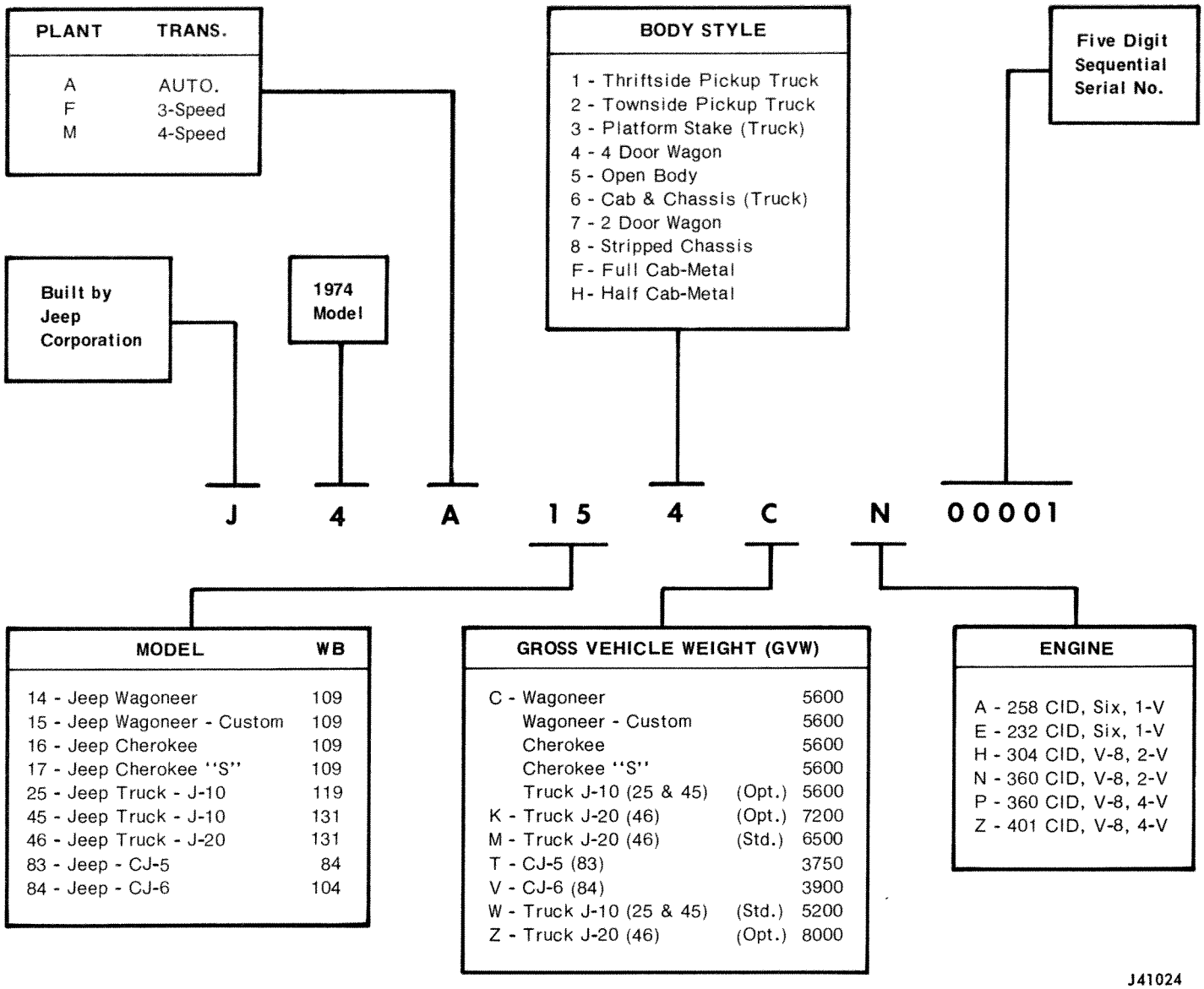
Fig. A-5 Certification Label

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 procuring the correct replacement part(s), 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-6.

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

VEHICLE IDENTIFICATION NUMBER (VIN) DECODING CHART



J41024

Vehicle Identification Number (VIN)

All vehicle identification numbers contain 13 characters or digits. These digits are a combination of letters and numbers providing specific information about the vehicle. For an explanation of the VIN, refer to the decoding chart shown above.

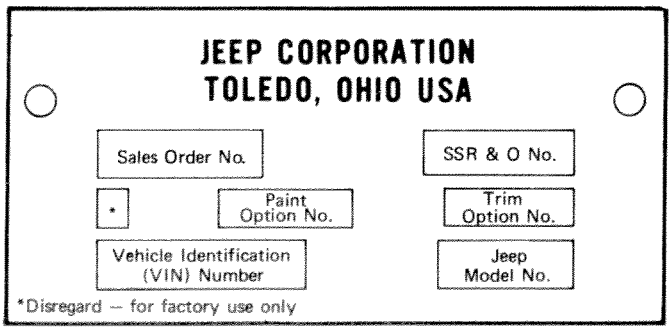


Fig. A-6 Vehicle Identification Plate J73030

Vehicle Identification Plate

A metal Vehicle Identification Plate (fig. A-6) is affixed to the left side of the firewall under the hood. The plate indicates the Vehicle Identification Number (VIN), the Sales Order Number, Special Sales Request and Order (SSR&O) Number, Paint and Trim Option Numbers, and the Jeep Model Number.

Paint Option Number

The Paint Option Number is embossed on the Vehicle Identification Plate as shown in figure A-6.

All colors are available from Ditzler or duPont jobbers by requesting the paint intermix formula. Option number 999 indicates special paint. To obtain information on special paint, obtain the SSR&O Number from the Vehicle Identification Plate and contact the National Parts Distribution Center for the correct paint under that sales order number.

Trim Option Number

The Trim Option Number is embossed on the Vehicle Identification Plate as shown in figure A-6. Consult your Jeep Parts Catalogs 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).

KEYS AND LOCKS

Two square-headed and two oval-headed keys are provided, as applicable, with each vehicle. The square-headed (code D) keys operate the ignition switch, front door locks, and Wagoneer and Cherokee tailgates. The oval-headed (code E) keys operate the glove box locks. The keys have a code number stamped on the knockout plug. In the event a key is lost, a new key can be made by converting the key code number to a key bitting number. Key bitting 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 (VIN).

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 (for CJ models, remove ignition switch). The locksmith can determine the key bitting by inserting a blank key into the lock cylinder and cutting the blank to match the tumbler.s

If a glove box key is lost, the lock cylinder can be removed and the tumblers rearranged to match the ignition key. Refer to the procedures outlined in Section 14 of this manual for installing new 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-7). Starting with the number 1 position, read across the visible line and record first digit of the key code. Continue this process for subsequent numbers 2 through 5.

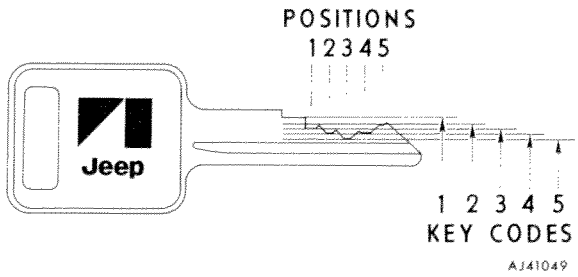


Fig. A-7 Key Coding Template

NOTE: *The template shown in figure A-7 may be used to determine th key bitting code of a key for which the key code number is unknown.*

SERVICE MANUAL IMPROVEMENTS

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

SPECIAL TOOLS

Special tools are required for some service operations. When such tools are required, reference is made in the service procedure to the tool name and number. In addition, all special tools are illustrated throughout the text, where possible, or at the end of the section in which they are referenced.

WARNING: *Use of tools or procedures other than those recommended in this service manual could be detrimental to the safe operation of the vehicle serviced, as well as to the safety of the person or persons servicing the vehicle.*

CONVERSION OF ENGLISH AND METRIC MEASURES

Cubic Centimeters to Inches: To change cubic centimeter to cubic inches, multiply cubic centimeters times 0.061 to obtain cubic inches (cc x 9.061 = cubic inch).

Cubic Inches to Centimeters: To change cubic inches to cubic centimeters, multiply cubic inches times 16.39 to obtain cubic centimeters (cubic inch x 16.39 = cc).

Liters to Cubic Inches: To change liters to cubic inches, multiply liters times 61.02 to obtain cubic inches (liters x 61.02 = cubic inch).

Cubic Inches to Liters: To change cubic inches to liters, multiply cubic inches times 0.01639 to obtain liters (cubic inch x 0.01639 = 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 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 times 1.609 to obtain kilometers (miles x 1.609 = kilometers).

Kilometers to Miles: to change kilometers to miles, multiply kilometers times 0.6214 to obtain miles (kilometers x 0.6214 = miles).

Pounds to Kilograms: 1 lb. = 0.04536 kg.

Kilograms to Pounds: 1 Kg = 2.2046 lb.

METRIC SYSTEM

LENGTH

Unit	abbreviation	number of meters	approximate U.S. equivalent
myriameter	mym	10,000	6.2 miles
kilometer	km	1,000	0.62 miles
hectometer	hm	100	109.36 yards
decameter	dkm	10	32.81 feet
meter	m	1	39.37 inches
decimeter	dm	0.1	3.94 inches
centimeter	cm	0.01	0.39 inches
millimeter	mm	0.001	0.04 inches

AREA

unit	abbreviation	number of square meters	approximate U.S. equivalent
square kilometer	sq km *or* km^2	1,000,000	0.3861 square miles
hectare	ha	10,000	2.47 acres
are	a	100	119.60 square yards
centare	ca	1	10.76 square feet
square centimeter	sq cm *or* cm^2	0.0001	0.155 square inches

VOLUME

unit	abbreviation	number of cubic meters	approximate U.S. equivalent
decastere	dks	10	13.10 cubic yards
stere	s	1	1.31 cubic yards
decistere	ds	0.10	3.53 cubic feet
cubic centimeter	cu cm *or* cm^3 *also* cc	0.000001	0.061 cubic inches

CAPACITY

unit	abbreviation	number of liters	approximate U.S. equivalent		
			cubic	*dry*	*liquid*
kiloliter	kl	1,000	1.31 cubic yards		
hectoliter	hl	100	3.53 cubic feet	2.84 bushels	
decaliter	dkl	10	0.35 cubic feet	1.14 pecks	2.64 gallons
liter	l	1	61.02 cubic inches	0.908 quarts	1.057 quarts
deciliter	dl	0.10	6.1 cubic inches	0.18 pints	0.21 pints
centiliter	cl	0.01	0.6 cubic inches		0.338 fluidounces
milliliter	ml	0.001	0.06 cubic inches		0.27 fluidrams

MASS AND WEIGHT

unit	abbreviation	number of grams	approximate U.S. equivalent
metric ton	MT *or* t	1,000.000	1.1 tons
quintal	q	100,000	220.46 pounds
kilogram	kg	1,000	2.2046 pounds
hectogram	hg	100	3.527 ounces
decagram	dkg	10	0.353 ounces
gram	g *or* gm	1	0.035 ounces
decigram	dg	0.10	1.543 grains
centigram	cg	0.01	0.154 grains
milligram	mg	0.001	0.015 grains

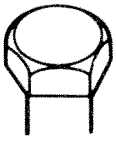
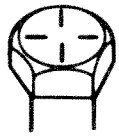
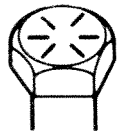
CAPACITY CONVERSION - U.S. GALLONS TO LITERS

Gallons	0	1	2	3	4	5
	Liters	Liters	Liters	Liters	Liters	Liters
1		3.7853	7.5707	11.3560	15.1413	18.9267
10	37.8533	41.6387	45.4240	49.2098	52.9947	56.7800
20	75.7066	79.4920	83.2773	87.0626	90.8480	94.6333
30	113.5600	117.3453	121.1306	124.9160	128.7013	132.4866
40	151.4133	155.1986	158.9840	162.7693	166.5546	170.3400

All critical torque specifications are listed at the end of each section, where appropriate. Where no torque reference is given, refer to the accompanying chart, Standard Torque Specifications and Capscrew Markings. Note that torques given in the chart are based on use of clean and dry threads. Reduce torque by ten percent when threads are lubricated with engine oil, and by twenty percent if new plated capscrews are used.

CAUTION: *Capscrews threaded into aluminum may require reductions in torque of thirty percent or more unless inserts are used.*

STANDARD TORQUE SPECIFICATIONS AND CAPSCREW MARKINGS

SAE Grade Number	1 or 2		5		6 or 7		8	
Capscrew Head Markings Manufacturer's marks may vary. Three-line markings on heads shown below, for example, indicate SAE Grade 5.								
Usage	**Used Frequently**		**Used Frequently**		**Used at Times**		**Used at Times**	
Capscrew Diameter and Minimum Tensile Strength psi (Kg/sq cm)	To 1/2 - 69,000 (4850.7) To 3/4 - 64,000 (4499.2) To 1 - 55,000 (3866.5)		To 3/4 - 120,000 (8436.0) To 1 - 115,000 (8084.5)		To 5/8 - 140,000 (9842.0) To 3/4 - 133,000 (9349.9)		150,000 (10545.0)	
Quality of Material	**Indeterminate**		**Minimum Commercial**		**Medium Commercial**		**Best Commercial**	
Capscrew Body Size (Inches) - (Thread)	**Torque**		**Torque**		**Torque**		**Torque**	
	Ft-Lb	**kg m**	**Ft-Lb**	**kg m**	**Ft-Lb**	**kg m**	**Ft-Lb**	**kg m**
1/4-20	5	0.6915	8	1.1064	10	1.3830	12	1.6596
-28	6	0.8298	10	1.3830			14	1.9362
5/16-18	11	1.5213	17	2.3511	19	2.6277	24	3.3192
-24	13	1.7979	19	2.6277			27	3.7341
3/8-16	18	2.4894	31	4.2873	34	4.7022	44	6.0852
-24	20	2.7660	35	4.8405			49	6.7767
7/16-14	28	3.8132	49	6.7767	55	7.6065	70	9.6810
-20	30	4.1490	55	7.6065			78	10.7874
1/2-13	39	5.3937	75	10.3725	85	11.7555	105	14.5215
-20	41	5.6703	85	11.7555			120	16.5960
9/16-12	51	7.0533	110	15.2130	120	16.5960	155	21.4365
-18	55	7.6065	120	16.5960			170	23.5110
5/8-11	83	11.4789	150	20.7450	167	23.0961	210	29.0430
-18	95	13.1385	170	23.5110			240	33.1920
3/4-10	105	14.5215	270	37.3410	280	38.7240	375	51.8625
-16	115	15.9045	295	40.7985			420	58.0860
7/8- 9	160	22.1280	395	54.6285	440	60.8520	605	83.6715
-14	175	24.2025	435	60.1605			675	93.3525
1- 8	235	32.5005	590	81.5970	660	91.2780	910	125.8530
-14	250	34.5750	660	91.2780			990	136.9170

AJ41029

BODY STYLES AND GENERAL DIMENSIONS (Inches)

Model Code Number and Body Style		Wheelbase and Tread Width				Exterior Dimensions						Interior Dimensions			
		Wheel-Base	Min. Turning Circle	Front Tread	Rear Tread	Overall Length	Height	Width	Front Over-hang	Rear Over-hang	Min. Ground Clearance	Head-room (Front)	Leg Room (Front)	Shoulder Room (Front)	Hip Room (Front)
83	CJ-5 Open Body	84	32.9	51.5	50.0	138.9	69.5	59.9	22.9	32.0	8.0	40.0	41.0	55.40	55.40
84	CJ-6 Open Body	104	37.6	51.5	50.0	158.9	68.3	59.9	22.9	32.0	8.0	40.0	41.0	55.40	55.40
16	Cherokee Std. 2-Dr. Wagon	109	38.4	59.0	57.5	183.7	65.3	75.6	29.7	45.0	8.0	38.6	45.0	58.12	61.00
17	Cherokee 'S' Cust. 2-Dr. Wagon	109	38.4	59.0	57.5	183.7	65.3	75.6	29.7	45.0	8.0	38.6	45.0	58.12	61.00
14	Wagoneer Std. 4-Dr. Wagon	109	38.4	59.0	57.5	183.7	65.3	75.6	29.7	45.0	8.0	38.6	45.0	58.12	61.00
15	Wagoneer Custom Cust. 4-Dr. Wagon	109	38.4	59.0	57.5	183.7	65.3	75.6	29.7	45.0	8.0	38.6	45.0	58.12	61.00
25	Truck J-10 Pickup														
	Std. 5200 GVW	119	41.9	*62.9	63.8	193.6	69.5	78.9	29.5	45.1	8.0	38.3	45.0	60.12	60.62
	Opt. 5600 GVW	119	41.9	*62.9	63.8	193.6	71.3	78.9	29.5	45.1	8.9	38.3	45.0	60.12	60.62
45	Truck J-10 Pickup														
	Std. 5200 GVW	131	45.4	*62.9	64.4	205.6	69.5	78.9	29.5	45.1	8.0	38.3	45.0	60.12	60.62
	Std. 5600 GVW	131	45.4	*62.9	64.4	205.6	71.3	78.9	29.5	45.1	8.9	38.3	45.0	60.12	60.62
46	Truck J-20 Pickup														
	Std. 6500 GVW	131	45.4	64.5	64.4	205.6	69.5	78.9	29.5	45.1	8.9	38.3	45.0	60.12	60.62
	Opt. 7200 GVW	131	45.4	64.5	64.4	205.6	71.3	78.9	29.5	45.1	8.9	38.3	45.0	60.12	60.62
	Opt. 8000 GVW	131	45.4	64.5	64.6	205.6	72.4	78.9	29.5	45.1	8.9	38.3	45.0	60.12	60.62

***63.0 Inches with Disc Brakes**

J41027

POWER TRAIN COMBINATIONS

Vehicle	Engine	Comp. Ratio	Carb.	Transmission			Transfer Case		Clutch Size (Inches)	Axle Ratio		Trac-Loc (NA with QT)	Axle Model		Brake Size ④ (Inches)		Wheels	Tires
				3 Spd	4 Spd	Auto	Dana 20	QT		Std.	Opt.		Front	Rear	Front	Rear		
CJ-5 Model 83 (84" WB) 3750 GVW	232	8.0:1	1V	S	O		S	NA	10.5	3.73	4.27	O	Dana 30 Open End	Dana 44	Bendix 11 x 2 Drum	Bendix 11 x 2 Drum	15 x 6.00 5 Bolt 5.50 BC	F78 x 15
	258	8.0:1	1V	S	O													
	304	8.4:1	2V	S														
CJ-6 Model 84 (104" WB) 3900 GVW	232	8.0:1	1V	S			S	NA	10.5	3.73	4.27	O	Dana 30 Open End	Dana 44	Bendix 11 x 2 Drum	Bendix 11 x 2 Drum	15 x 6.00 5 Bolt 5.50 BC	F78 x 15
	258	8.0:1	1V	S														
	304	8.4:1	2V	S														
Cherokee Models 16 & 17 (109" WB) 5600 GVW	258	8.0:1	1V	S		O	S		10.5	3.54	4.09	O ③	Dana 44 Open End	Dana 44	Delco 11 x 2 Drum Std. 12 Disc Opt.	Delco 11 x 2 Drum	15 x 6.00 6 Bolt 5.50 BC	F78 x 15 H78 x 15
	360	8.25:1	2V	S	O	O	S	S ①	11.0	3.07	3.54	O						
	360	8.25:1	4V			S		S										
	401	8.35:1	4V			S		S										
Wagoneer Models 14 & 15 (109" WB) 5600 GVW	360	8.25:1	2V		O	S	S	S ①	11.0	3.07	3.54	O	Dana 44 Open End	Dana 44	Delco 12 Disc. Std.	Delco 11 x 2 Drum	15 x 6.00 6 Bolt 5.50 BC	F78 x 15 H78 x 15
	360	8.25:1	4V			S		S										
	401	8.35:1	4V			S		S										
J-10 Truck Model 25 (119" WB) Model 45 (131" WB) 5200 GVW 5600 Opt.	258	8.0:1	1V	S	O	O	S	O ②	10.5	4.09	NA	O	Dana 44 Open End	Dana 44	Delco 11 x 2 Drum Std. 12 Disc Opt.	Delco 11 x 2 Drum	15 x 6.00 6 Bolt 5.50 BC	G78 x 15 (5200 GVW) H78 x 15 (5600 GVW)
	360	8.25:1	2V	S	O	O	S	O ②	11.0	3.54	4.09							
	360	8.25:1	4V			S		S										
	401	8.35:1	4V			S		S		3.54	NA							
J-20 Truck Model 46 (131" WB) 6500 GVW 7200 Opt. 8000 Opt.	360	8.25:1	2V	S	O	O	S	O ②	11.0	3.73	4.09	O	Dana 44 Open End	Dana 60 Full Floating	Delco 12.5 Disc	Delco 12 x 2.5 Drum	16.5 x 6.00 (6500 GVW) 16.5 x 6.75 (7200 & 8000 GVW) 8 Bolt 6.50 BC	8.00 x 16.5 (6500 GVW) 8.75 x 16.5 (7200 GVW) 9.50 x 16.5 (8000 GVW)
	401	8.35:1	4V		S	O	S	S ⑤	11.0	3.73	NA							

Legend:
- S - Standard Equipment
- O - Optional
- NA - Not Available
- BC - Bolt Circle
- WB - Wheelbase
- GVW - Gross Vehicle Weight Rating
- QT - Quadra-Trac

① Quadra-Trac is standard and required with automatic transmission.
② Quadra-Trac is required with automatic transmission.
③ Trac-Loc not available with 4.09 axle.
④ Power not available with standard drum brakes (except CJ-5 with V-8), standard with disc brakes.
⑤ Auto/Quadra-Trac standard with 8000 GVW/401-4V.

J41009