930 Comfort King Tractor

Operators Manual

9-1575

Reprinted

CASE IH

This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about your safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death. SB001

IF THIS MACHINE IS USED BY AN EMPLOYEE, IS LOANED, OR IS RENTED, MAKE SURE THAT THE OPERATOR UNDERSTANDS THE TWO INSTRUCTIONS BELOW.

BEFORE THE OPERATOR STARTS THE ENGINE:

1. GIVE INSTRUCTIONS TO THE OPERATOR ON SAFE AND CORRECT USE OF THE MACHINE.
2. MAKE SURE THE OPERATOR READS AND UNDERSTANDS THE OPERATOR'S MANUAL FOR THIS MACHINE.

WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH.

BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

1. READ THE OPERATOR'S MANUAL.
2. READ ALL SAFETY DECALS ON THE MACHINE.
3. CLEAR THE AREA OF OTHER PERSONS.

LEARN AND PRACTICE SAFE USE OF MACHINE CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.

It is your responsibility to observe pertinent laws and regulations and to follow manufacturer's instructions on machine operation and maintenance.

See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

TO THE PURCHASER OF A CASE TRACTOR

The care you give your new Case Tractor will greatly determine the satisfaction and service life you will obtain from it. Use this manual as your guide. By observing the instructions and suggestions in this manual, your Case Tractor will serve you well for many years.

As an Authorized Case Dealer, we stock Genuine Case Parts, which are manufactured with the same precision and skill as the original equipment. Our factory trained staff is kept well informed on the best methods of servicing Case equipment and is ready and able to help you.

Should you require additional aid or information, contact us.

Your Authorized Case Dealer

To insure efficient and prompt service, please furnish us with the Model, Serial and Engine Numbers of your Tractor in all correspondence or contacts.

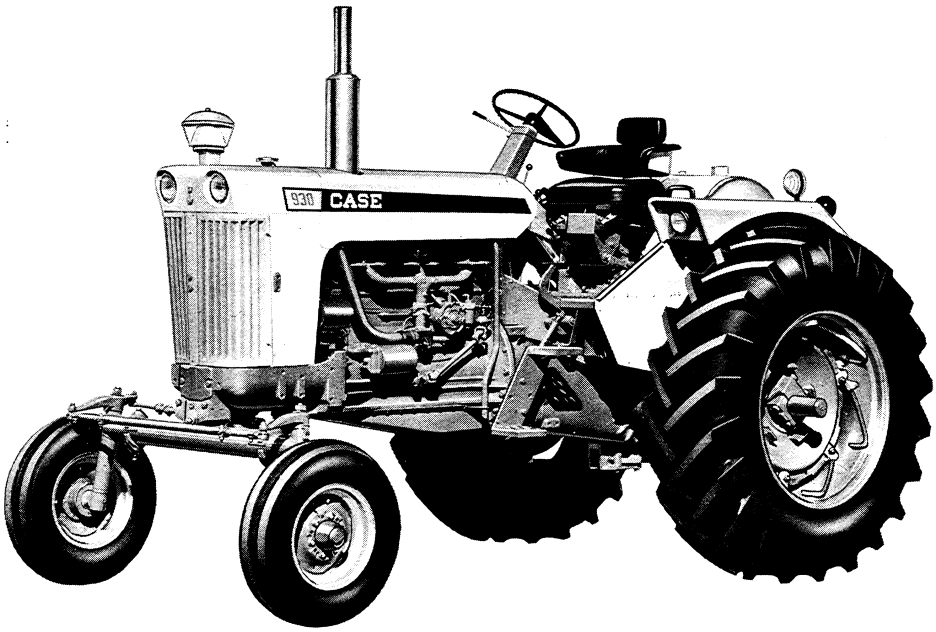


Figure 1.General Purpose Tractor (931)

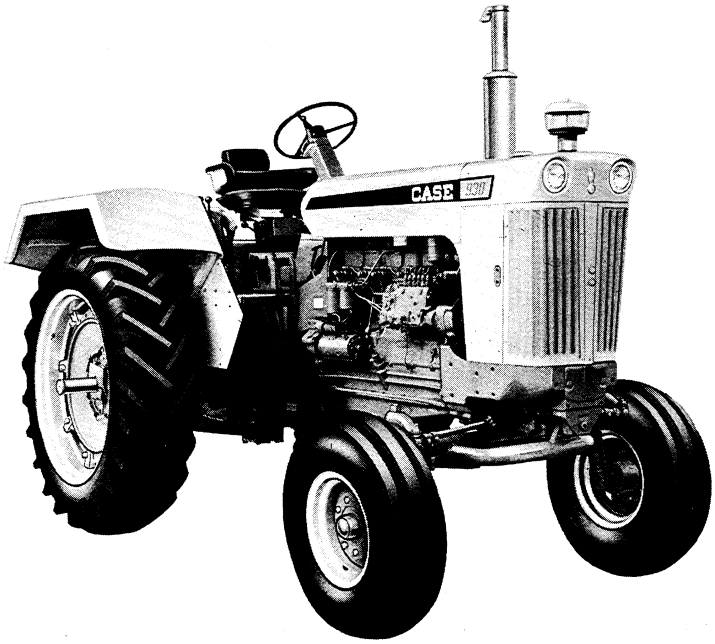


Figure 2.Special Tractor (932)

SERIAL NUMBER

When ordering parts from your Authorized Case Dealer and in all contacts or correspondence with your dealer relative to the Tractor, always specify the Serial, Model and Engine Numbers of your Tractor

The Model and Serial Numbers are stamped on the number plate located below the instrument panel. See Figure 3. The Engine Number is stamped on plate fastened to the right hand side of the engine on the fuel pump mounting flange, Figure 4.

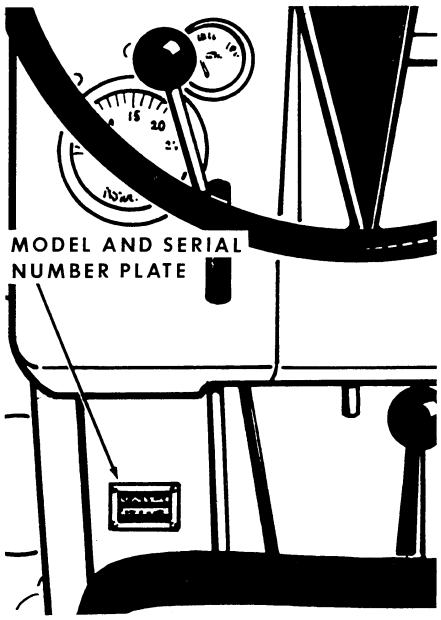


Figure 3

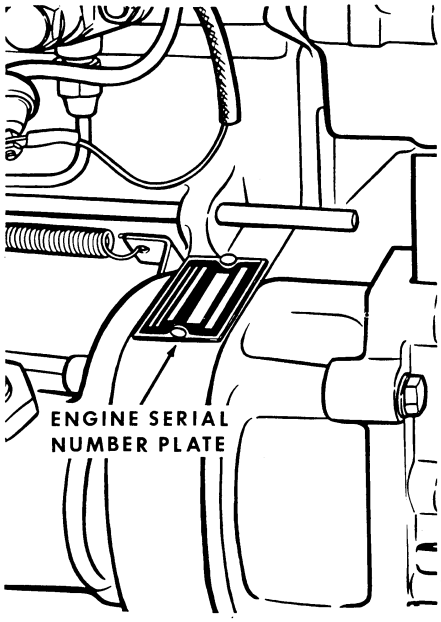


Figure 4

MODEL	DESCRIPTON
931	General Purpose
932	Special

NOTE The terms "Right Hand" and "Left Hand" whenever used in this manual apply to the Tractor when facing in the direction the Tractor will move in forward operation.

For reference, fill in the Serial Number, Model Number and Engine Number of your Tractor in the spaces provided below:

Model Number _____

Engine Number _____

Serial Number _____

Diesel Engine

SPECIFICATIONS

General

Type ---------- 6 Cylinder, 4 Stroke Cycle, Valve-In-Head Engine.
Firing Order ---------- 1-5-3-6-2-4
Bore ---------- 4.125 Inches
Stroke ---------- 5 Inches
Piston Displacement ---------- 401 Cubic Inches
Compression Ratio ---------- 15 to 1
*Valve Clearance (Intake and Exhaust) ---------- .020 Inch (Hot)
Rated Engine Speed ----------1800 RPM
No Load Governed Engine Speed ---------- 1960 RPM
Engine Idling Speed ---------- 600 RPM
Cylinder Sleeves ---------- Removable Wet Type
Cold Weather Starting Aid ---------- Electric Manifold Heater
Diesel Fuel Recommendation ---------- Number 2 Diesel Fuel

*Hot Settings Are Made At Low Idle After the Engine Has Operated At Thermostat Controlled Temperature For At Least Fifteen Minutes.

Piston and Rods

Number of Compression Rings ---------- 3
Number of Oil Rings ---------- 1
Piston Pins ---------- Full Floating Type
Type of Connecting Rod Bearings ---------- Replaceable Precision Steel Back, Copper Lead Alloy Liners.

Main Bearings

Number of Bearings ---------- 7
Type of Main Bearings ---------- Replaceable Precision Steel Back, Copper Lead Alloy Liners.

Engine Lubricating System

Oil Pressure ---------- 40 to 50 PSI with Engine Warm and Operating at Rated RPM.
Type System ---------- Forced Circulation
Oil Pump ---------- Gear Type, Oil Screen Inlet

Oil Filter ---------- Full Flow with Replaceable Element.

Fuel Injection System

Fuel Tank Capacity ---------- 48 U. S. Gallons
Fuel Injection Pump ---------- Robert Bosch Type PES (Multiple Plunger). 31° Before Top Dead Center (Port Closing).
Fuel Injectors ---------- Robert Bosch Throttling Pintle Type (Opening Pressure 2000 PSI).
Fuel Transfer Pump ---------- Plunger Type, Integral Part of Injection Pump.
Governor ---------- Variable Speed, Fly-Weight Centrifugal Type; Integral Part of Injection Pump.

Fuel Filters

1st Stage ---------- Replaceable Element or Cartridge Type.
2n Stage ----------Replaceable Element or Cartridge Type.
Final 3rd Stage (If Equipped) -------- Replaceable "Sealed Type" Filter
Fuel Tank Breather ---------- Fuel Cap
Fuel Tank Water Trap and Drain ---------- Bottom of Fuel Tank
Fuel Tank Level Gauge --------- Located on Instrument Panel
Fuel Pressure Warning Light --- Located on Instrument Panel Indicates Condition of Fuel Filters.

spark ignition engine

SPECIFICATIONS

General

Type ---------- 6 Cylinder, 4 Stroke Cycle Valve-In-Head Engine.
Firing Order ---------- 1-5-3-6-2-4
Bore ---------- 4 Inches
Stroke ---------- 5 Inches
Piston Displacement ----------377 Cubic Inches
Compression Ratio (Gasoline) ---------- 7.4 to 1
(LP Gas) ---------- 8.5 to 1
Valve Clearance (Intake) ---------- .010 Inch(Hot)
(Exhaust) ---------- .020 Inch(Hot)
Rated Engine Speed ----------1800 RPM
No Load Governed Engine Speed ---------- 1960 RPM
Engine Idling Speed---------- 600 RPM
Cylinder Sleeves ---------- Removable Wet Type

*Hot Settings Are Made At Low Idle After the Engine has Operated At Thermostat Controlled Temperature For At Least Fifteen Minutes.

Pistons and Rods

Number of Compression Rings ---------- 3
Number of Oil Rings ---------- 1
Piston Pins ---------- Full Floating Type
Type of Connecting Rod Bearings ---------- Replaceable Precision Steel Back, Copper Lead Alloy Liners.

Main Bearings

Number of Bearings ---------- 7
Type of Main Bearings ---------- Replaceable Precision Steel Back, Copper Lead Alloy Liners.

Engine Lubricating System

Oil Pressure ---------- 40 to 50 PSI with Engine Warm and Operating at Rated RPM.

Type System ---------- Forced Circulation
Oil Pump ---------- Gear Type, Oil Screen Inlet
Oil Filter ---------- Full Flow With Replaceable Element

Fuel System(Gasoline)

Fuel Tank Capacity ---------- 48 U. S.Gallons
Carburetor ---------- Zenith Model 62
Flange ---------- SAE 1-1/2 Inch
Fuel Filter ---------- In Fuel Pump Located Under Fuel Tank.
Water Trap ---------- Located Under Fuel Tank.
Fuel Gauge ---------- Located On Instrument Panel.

Fuel System(LP Gas)

Fuel Tank Capacity ----------44 U. S. Gallons (80% Full)
Carburetor ---------- Ensign Model Kg 1
Flange ----------SAE 1-1/2 Inches
Fuel Filter ---------- Replaceable Element Type Located Near Regulator.
Fuel Gauge ---------- Visual - Located on Rear of LP Gas Tank.

Distributor Ignition

Contact Point Gap ---------- .020 Inch
Dwell Angle ----------39°
Static Timing (Gasoline) ---------- 4° BTC
(LP Gas) ---------- 2° ATC
Running Timing at 1800 RPM (Gasoline) ---------- 28° BTC
(LP Gas) ---------- 22° BTC
Spark Plugs (Gasoline) ---------- Prestolite 18 8 or Equivalent
(LP Gas) ---------- Prestolite 18 3 or Equivalent
Thread ---------- 18 MM
Gap (Gasoline) ---------- .025 Inch
(LP Gas) ---------- .020 Inch
Shank Length ----------1/2 Inch

general specifications

Cooling System

Capacity (Diesel) ---------- 10 U. S. Gallons
(Spark Ignition) ---------- 10.5 U. S. Gallons
Type of System ---------- Pressurized Thermostat Continuous By-Pass Type; Forced Circulation, Impeller Type Pump.
Radiator ---------- Heavy Duty Tube and Fin Type
Thermostats ----- Starts to Open at 180°F. Fully Open at 204° F.
Pressure Cap Required ---------- 7 PSI
When using a proper operating 7 PSI pressure cap, the engine temperature can safely rise to 230° F.

Electrical System

Type of System ---------- 12 Volt Negative Ground
Batteries (Diesel) ---------- Two 6 Volt Batteries connected in Series (Group 7DA, 204R) 204 Amp. hours at 20 hour rate.
(Gasoline) ---------- Two 6 Volt Batteries connected in Series (Group 4HA, 150R) 150 Amp hours at 20 hour rate.
Generator ---------- 12 Volt
Voltage Regulator ---------- Automatic Type
Starting Motor ---------- 12 Volt
Headlights ---------- 12 Volt Sealed Unit
Cultivator Lights ---------- 12 Volt Sealed Unit
Tail and Flood Light --------- 12 Volt Sealed Unit Combination
Electrical Outlet Socket ---------- 12 Volt; for Auxiliary Light
Circuit Breaker ---------- Protects the Electrical System from Overloads.

Brakes

Type ---------- Heavy Duty Self-Energizing Differential Brakes
Brake Pedals ----- Can be Locked Together for Road Travel or Used Individually for Steering Assistance.

Traction Clutch

Foot Operated ---------- Spring Loaded, Single Disc

Power Steering

Pump Type ---------- Belt Driven, Gear or Roller Type
Reservoir Capacity (Gas and Diesel) ---------- 3 U. S. Pints
(LP Gas) ---------- 1.5 U. S. Pints
Relief Valve Pressure ---------- 950 to 1100 PSI

Transmission

Transmission Case ----- Heavy Cast Iron One Piece Unit Construction Containing All Gears, Shafts, Bearings, Differential and Final Drive.
Transmission ------- 8 Forward Working Ranges and 2 Reverse
Final Drive ---------- Heavy Duty Gear Drive

Belt Pulley

Method of Engaging ---------- PTO Control Lever
Pulley Diameter---------- 10.50 Inches
Pulley Face Width ---------- 7.25 Inches
Ratio Engine RPM to Belt Pulley RPM (540 PTO) ----- 1.85 to 1
(1000 PTO)---- 1.56 to 1
1 RPM of the Belt Pulley ---- 2.75 Feet Per Minute Belt Travel

Power Take Off

Rotation ---------- Clockwise
Spline Size (540 RPM) ---------- 6 Spline 1.375 Inch Dia.
(1000 RPM) ---------- 21 Spline 1.375 Inch Dia.
PTO Shaft Speed at 1700 Engine RPM --------- 545 or 1005 RPM

Drawbars

Standard ---------- Full Swinging, Roller Mounted, Will accommodate 1.125 inch or 1.25 inch Dia. Pin. Use Largest Pin Drawbar will accept.
Yoke Type ---------- Full Swinging, Roller Mounted, Equipped with 1-1/4 inch Dia. Pin.

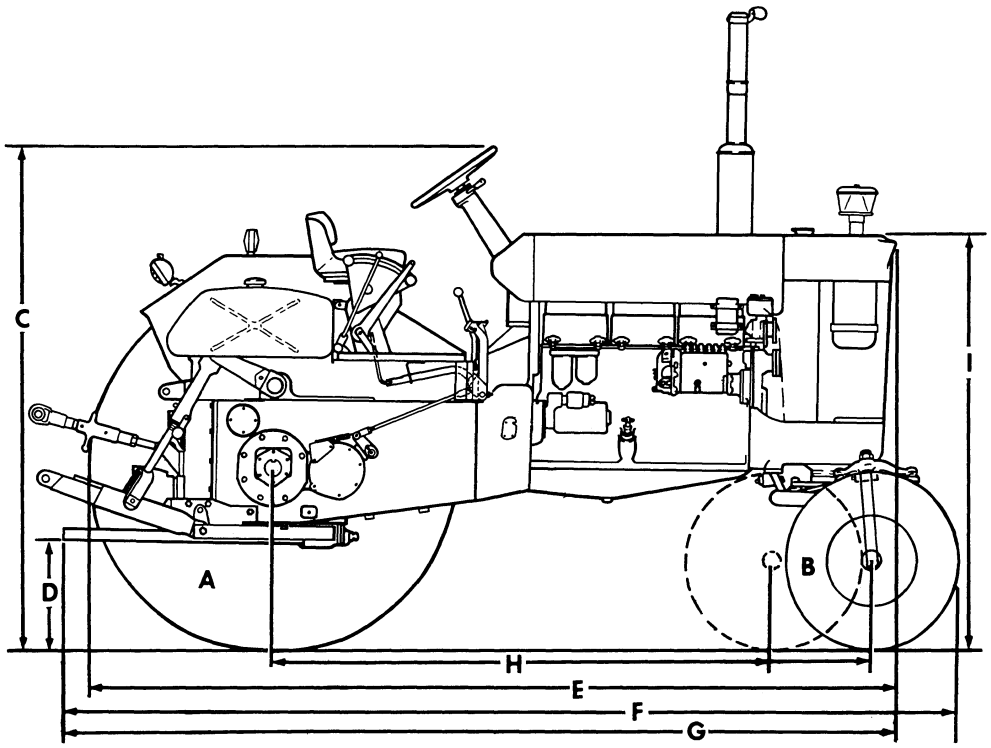
Hydraulic System

Pump ---------- Spur Gear, Continuous Running
Type Valve Control --------- Hand Lever Operated Dual Valve
Portable Cylinder Coupling-Case Quick Detachable Breakaway Type
Portable Cylinder ---------- Available
Pump Capacity at 1500 RPM ---------- 12 GPM
Pump Capacity at 1800 RPM ---------- 14.5 GPM
Relief Valve Pressure ---------- 1700 - 1900 PSI

Draft-O-Matic System

Type of Sensing ---------- Lower Link
Type Control ---------- Quadrant Lever
Type Valve ---------- 3 Positions - Raise - Hold - Lower
Type Draft Arms ------ Swinging, with Manual Float Adjustment
Type Hitch ---------- 3 Point Category II

APPROXIMATE OVERALL MEASUREMENTS



Model	A	B	C	D	E	F	G	H	I
931 General Purpose	18.4-34	7.50-15 F2	87	16-1/4		163		108	72
932 Special	15.5-38	10.00-16	88	16	143		150	89	73

A and B Tire Sizes C thru I Dimensions in Inches

APPROXIMATE WEIGHTS

General Purpose (931) ---------- 7900 Pounds
Special (932) ---------- 8300 Pounds

TIRE AND WHEEL EQUIPMENT

Front

TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	Special	General Purpose Dual	General Purpose Adj.	Tire Pressure PSI
7.50L-15	8	6LB-15	F-2	X	X		32
7.50-16	6	550F-16	F-2	X		X	36
7.50-16	6	550F-16	I-1			X	36
7.50-18	6	550F-18	F-2	X			36
9.00-16	6	550F-16	I-1			X	36
9.50L-15	8	8LB-15	F-2	X		X	32
9.50-20	8	W7B-20	F-2	X		X	32
10.00-16	8	8L-16	F1&F2	X		X	36
11.00L-15	8	8LB-15	F-2	X		X	36
11.00-16	6	8L-16	F-2	X		X	28
11.00-16	8	8L-16	F-1	X		X	36
11.00L-16	8	8L-16	I-1	X		X	36

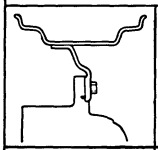
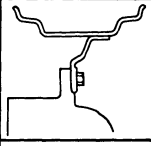
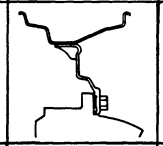
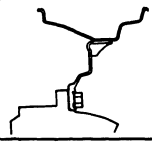
Rear

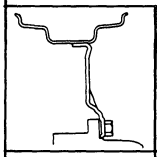
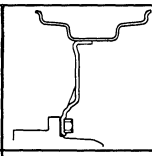
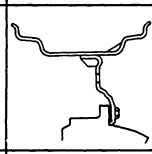
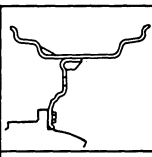
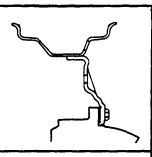
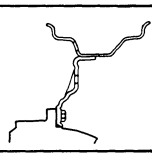
15.5-38	6	W14-38	R1&R2	X	X	18
15.5-38	8	W14-38	R1&R2	X	X	28
15.5-38	6	W14L-38	R1&R2	X	X	18
16.9-34	6	W15L-34	R-1	X	X	16
16.9-34	6	W16L-34	R-1	X	X	16
18.4-34	6	W15L-34	R1&R2	X	X	16
18.4-34	8	W15L-34	R1&R2	X	X	20
18.4-38	8	W16-38	R1&R2	X		20
23.1-30	8	DW20-30	R1&R2	X	X	16
23.1-30	8	W16-34	R1&R2	X		16
23.1-34	8	DW20-34	R1&R2	X		16

NOTE Keep tires inflated to recommended pressures. Check tire pressures every 60 hours of operation or once a week, whichever occurs first. Do not reduce rear tire pressure to increase traction. When plowing, increase furrow wheel tire pressure 4 PSI.

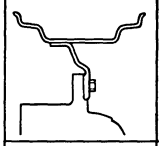
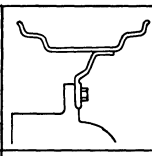
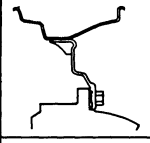
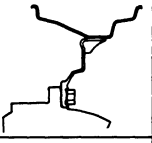
FRONT WHEEL TREAD SPACING
(General Purpose)

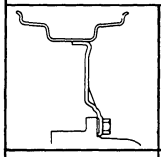
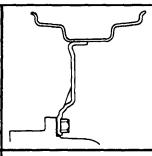
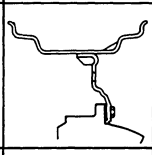
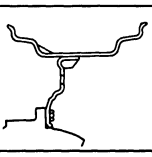
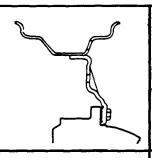
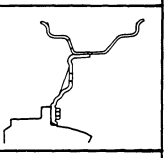
STANDARD ADJ. AXLE SPACING (INCHES) 108" WHEEL BASE

1/4" OFFSET WHEEL		1-1/8" OFFSET WHEEL		CAST WHEELS
				
54 - 70	56 - 72	55 - 75	56 - 76	56 - 76
DUAL FRONT WHEEL		9-1/8	14-1/4	

1-13/16" OFFSET WHL.		1-3/4" OFFSET WHEEL		2-1/4" OFFSET WHEEL	
					
53 - 73	61 - 81	54 - 74	62 - 82	53 - 73	62 - 82

WIDE ADJ. AXLE SPACING (INCHES) 108" WHEEL BASE

1/4" OFFSET WHEEL		1-1/8" OFFSET WHEEL		CAST WHEELS
				
59 - 79	61 - 81	62 - 90	63 - 91	63 - 91

1-13/16" OFFSET WHL.		1-3/4" OFFSET WHEEL		2-1/4" OFFSET WHEEL	
					
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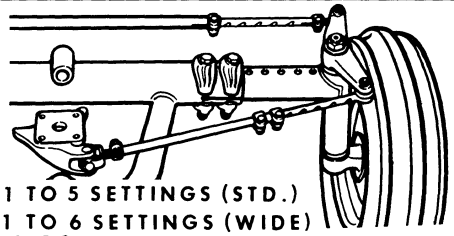
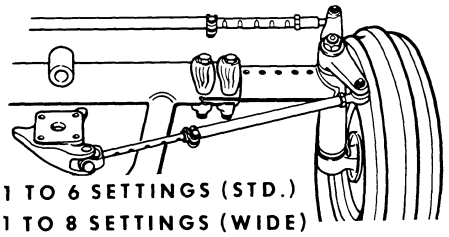


1 TO 5 SETTINGS (STD.)
1 TO 6 SETTINGS (WIDE)



1 TO 6 SETTINGS (STD.)
1 TO 8 SETTINGS (WIDE)

NOTE Axle spacings listed above are from the narrow setting (with increments of 4 inches) to the wide setting.

NOTE When tightening the front wheel bolts, torque 70 to 80 ft.lbs.

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