

7100 and 7200 Series Tractor Service Manual Table of Contents

Description	Section No.	Form No.
General	Tab 1	
General Information - 7100 Series	1001	8-91581
General Information - 7200 Series	1002	7-60490
Engines	Tab 2	
Engine Troubleshooting	2001	8-91600
Engine Tune-up	2002	8-91611
Engine Removal	2003	8-91621
Tractor Split between Engine and Speed Transmission	2004	8-91631
Tractor Split between Flywheel Housing and Speed Transmission for 7100 Series Transmission S/N AJB0055133 and After and all 7200 Series	2004	7-61090
Air Induction System	2010	8-91691
Aftercooler System	2011	8-91701
Specification Details	2403	8-28424
Cylinder Head and Valve Train	2415	8-28432
Cylinder Block	2425	8-28442
Lubrication System	2445	8-28452
Cooling System	2455	8-28462
Turbocharger	2465	8-28470
Turbocharger Failure Analysis	2565	9-78235
Fuel System	Tab 3	
Fuel System Specifications	3001	8-91591
Fuel Tank	3004	8-91752
Fuel System and Filters	3410	8-28480
Injection Pump	3412	8-28492
Fuel Injectors	3413	8-28501
Electrical	Tab 4	
Wiring Schematics and Troubleshooting - 7100 Series	4001	8-91764
Wiring Schematics and Troubleshooting - 7200 Series	4002	7-60450
Alternator	4004	8-91793
Neutral Start Switch	4005	8-91801
Starting Motor - Nippondensa 12800 - 5330	4011	8-95970
Starting Motor - Nippondensa 12800 - 4341	4230	8-25980
Battery Servicing and Testing	4235	8-20291
Steering	Tab 5	
Steering Column and Hand Pump	5001	8-91822
Steering Cylinder - 2WD and MFD Tractors	5002	8-91832
Steering Axle and Lines - 2WD	5003	8-91840

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Description	Section No.	Form No.
Power Train	Tab 6	
Tractor Split between Speed and Range Transmission	6001	8-91851
Tractor Split for Speed Transmission Service, 7100 Series		
Transmission S/N AJB0055133 and After and all 7200 Series	6001	7-60630
Tractor Split between Range Transmission and Rear Housing	6002	8-91861
Tractor Split for Pinion Shaft or Range Transmission		
Service - 7100 Series Transmission S/N AJB0055133		
and After and all 7200 Series	6002	7-60720
MFD Axle Removal	6003	8-91871
Transmission Valve - Prior to Transmission S/N AJB0055133	6004	8-91882
Transmission Valve - Transmission S/N AJB0055133 and After	6004	7-60330
Speed Transmission	6005	8-91891
Speed Transmission - 7100 Series Transmission		
S/N AJB0055133 and After and all 7200 Series	6005	7-60620
Range Transmission	6006	8-91901
Range Transmission - 7100 Series Transmission		
S/N AJB0055133 and After and all 7200 Series	6006	7-60610
Hydraulic Pump Drive	6007	8-91911
Rear Frame	6008	8-91922
Rear Axle and Planetaries	6009	8-91932
PTO - Single Shaft for Models 7130 and 7140 Prior to		
Transmission S/N AJB00059710 and Dual Shaft PTO for		
all 7110 and 7120 Models	6010	8-91942
PTO - Single Shaft for 7130 and 7140 Models		
Transmission S/N AJB00059710 and After, All Models 7150,		
7230, 7240 and 7250. Dual Shaft for all 7210 and 7220 Models	6010	7-60250
MFD Clutch Removal without Tractor Split	6011	7-60770
MFD Differential	6012	8-91961
MFD Axle and Planetaries	6013	8-91972

Brakes	Tab 7	
Brake Valve	7001	8-91981
Brake Cylinders	7003	8-91952

Hydraulics	Tab 8	
Hydraulic Troubleshooting - 7100 and 7200 Series	8001	8-92013
PTO Valve	8002	8-92021
Electrical PTO Valve	8002	7-65430
Remote Hydraulic Circuits	8004	8-92042
Hydraulic Filters - 7100 Series	8005	8-92051
Hydraulic Filters - 7200 Series	8005	7-60780
Differential Lock and MFD Solenoid Valves	8006	8-92060
Charge and Lube Pump - 7100 Series	8007	8-91811
Charge and Lube Pump - 7200 Series	8007	7-61040
Hydraulic Pump	8008	8-91990
Electronic Hitch Alignment - 7100 Series	8009	8-92071
Electronic Hitch Alignment - 7200 Series	8009	7-60420
Three Point Hitch	8010	8-92082
Hitch Valve	8011	8-92091
Hydraulic Schematics - 7100 and 7200 Series	8012	8-94382
Hydraulic Couplers	8013	8-95330

Description	Section No.	Form No.
Chassis	Tab 9	
Air Conditioning Troubleshooting - 7100 Series	9001	8-92101
Air Conditioning Troubleshooting - 7200 Series	9001	7-60380
Air Conditioning Testing - 7100 Series	9002	8-92111
Air Conditioning Testing - 7200 Series	9002	7-60390
Air Conditioning System and Compressor - 7100 Series	9003	8-92121
Air Conditioning System and Compressor - 7200 Series	9003	7-60400
Air Conditioning Components - 7100 Series	9004	8-92131
Air Conditioning Components - 7200 Series	9004	7-60410
Cab Blower	9005	8-92141
Tractor Seat - Air/Oil	9006	8-92151
Hood, Grille and Side Panels - Radiator and Support	9007	8-92161
Decal Location - 7100 Series	9008	8-92170
Decal Location - 7200 Series	9008	7-60820
Cab Removal	9009	8-92180
Pedal and Lever Adjustment	9010	8-92192
Tractor Seat - Air/Air - 7100 Series	9011	8-95560
Tractor Seat - Air/Air - 7200 Series	9011	7-60910

Section 1001

GENERAL INFORMATION

TABLE OF CONTENTS

Conversion Factors	3
General Torque Specification Table	
SAE	4
Metric	4
Hydraulic Tubes and Fittings	5
Fluid Capacities and Types	6
Engine Speeds	6
Engine Flywheel	6
Fuses	6
Bulb and Lamp Replacement	6
Steering and Oscillation Stops - MFD	7
Steering and Oscillation Stop Charts - without Fenders	8
Steering and Oscillation Stop Charts - with Fenders	8
Tire Specifications	
Front Tires	9
Rear Tires	9
Service Tools Introduced for 7100 Series	
Transmission Service	10-11
Hydraulic Test Fittings	11
MFD Axle Service	12
Electrical Testing	13

CONVERSION FACTORS

U.S. Customary to SI (Metric) Units

SI (Metric) Units to U.S. Customary

	Multiply	By	To Obtain: Multiply	By	To Obtain
Area.	square foot (ft ²) acre	0 092 903 0.404 686	square meter (m ²) hectar (ha)	10.763 91 2.471 05	square foot (ft ²) acre
Force	ounce force (ozf) pound force (lbf)	0 278 014 4 448 222	newton (N) newton (N)	3.596 942 0.224 809	ounce force (ozf) pound force (lbf)
Length	inch (in) foot (ft) mile	25 4 0 304 8 1 609 344	millimetre (mm) meter (m) kilometer (km)	0.039 370 3.280 804 0.621 371	inch (in) foot (ft) mile
Mass	pound (lb)	0 453 592	kilogram (kg)	2.204 622	pound (lb)
Mass/Area.	ton/acre	2241 702	kilogram per hectare (kg/ha)	0.000 446	ton/acre
Mass/Energy (Fuel Consumption)	pound per brake horsepower- hour (lb/bhp-h)	608.277 4	gram per kilowatt hour (g/kwh)	0.001 644	pound per brake horsepower- hour (lb/bhp-h)
Mass/Volume (Density)	pound per cubic yard (lb/yd ³) 0 593276	0.593 276	kilogram per cubic meter (kg/m ³)	1.685 555	pound per cubic yard (lb/yd ³)
Power	horsepower - U.S. customary (hp - U.S. customary)	0 745 700	kilowatt (kw)	1.341 02	horsepower - U.S. customary (hp-U.S. customary)
Pressure	pound per square inch (psi)	6.894 757	kilopascal (kPa)	0.145 038	pound per square inch (psi)
Temperature	degrees Fahrenheit (°F)	TC = 5/9 (TF-32)	degree Celsius (°C)	TF = 1.8 TC + 32	degree Fahrenheit (°F)
Torque	pound inch (lb in) pound foot (lb ft)	0.112 985 1.355 818	newton meter (Nm) newton meter (Nm)	8.850 748 0.737 562	pound inch (lb in) pound foot (lb ft)
Velocity (Speed)	miles per hour (mph)	1 609 344	kilometer per hour (km/h)	0.621 371	miles per hour (mph)
Volume	cubic inch (in ³) cubic foot (ft ³) cubic yard (yd ³) ounce-U.S. fluid (oz) quart-U.S. liquid (qt) quart-Imperial (qt) gallon-U.S. liquid (gal) gallon-Imperial (gal)	16.387 06 0 028 317 0.764 555 29 573 53 0 946 353 1 136 523 3 785 412 4.546 092	cubic centimeter (cm ³) cubic meter (m ³) cubic meter (m ³) milliliter (ml) liter (l) liter (l) liter (l) liter (l)	0.061 024 35.314 66 1.307 950 0.033 814 1.056 688 0.879 877 0.264 172 0.219 969	cubic inch (in ³) cubic foot (ft ³) cubic yard (yd ³) ounce-U.S. fluid (oz) quart-U.S. liquid (qt) quart-Imperial (qt) gallon-U.S. liquid (gal) gallon-Imperial (gal)
Volume/Area	bushel (U.S.) per acre	0 087 078	cubic meter per hectare (m ³ /ha)	11.484 000	bushel (U.S.) per acre
Volume/Time. (Flow)	gallon per minute (U.S.) (gpm U.S.) gallon per minute (Imperial) (gpm Imp.)	3 785 412 4 546 092	liter per minute (l/m) liter per minute (l/m)	0.264 172 0.219 969	gallon per minute (U.S.) (gpm U.S.) gallon per minute (Imperial) (gpm Imp.)
Horsepower	U.S. customary hp net engine hp net engine hp	1.014 0.815* 0 70*	metric horsepower P.T.O. observed hp mox drawbar hp	0.986 3	U.S. customary hp

* Approximation based on observed tests

SAE FASTENER TORQUE CHART

NOTE: Use these torques, unless special torques are specified. Values are for UNC and UNF thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, moly-disulphide or other extreme pressure lubricant is used.

SAE Grade No	2				5				8*			
Bolt head identification (See Note 1)					  				  			
Bolt Size	LB FT		Nm		LB FT		Nm		LB FT		Nm	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1/4	5	6	7	8	9	11	12	15	12	15	16	20
5/16	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	20	23	27	31	35	42	48	57	45	54	61	73
7/16	30	35	41	47	54	64	73	87	70	84	95	114
1/2	45	52	61	70	80	96	109	130	110	132	149	179
9/16	65	75	88	102	110	132	149	179	160	192	217	260
5/8	95	105	129	142	150	180	203	244	220	264	298	358
3/4	150	185	203	251	270	324	366	439	380	456	515	618
7/8	160	200	217	271	400	480	542	651	600	720	814	976
1	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8					800	880	1085	1193	1280	1440	1736	1953
1-1/4					1120	1240	1519	1681	1820	2000	2468	2712
1-3/8					1460	1680	1980	2278	2380	2720	3227	3688
1-1/2					1940	2200	2631	2983	3160	3560	4285	4827

NOTE 1: Bolt head identification marks as per grade. Manufacturing marks will vary.

*Thick nuts must be used with Grade 8 bolts.

METRIC FASTENER (ISO) TORQUE CHART

NOTE: Use these torques, unless special torques are specified. Values are for coarse thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, moly-disulphide or other extreme pressure lubricant is used.

ISO Class No	8.8				10.9				12.9			
Bolt head identification (See Note 1)												
Bolt Size	Nm		LB FT		Nm		LB FT		Nm		LB FT	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M4	3	4	2	3	4	5	3	4	Because of the low ductility of these fasteners, the torque range is to be determined individually for each application. As a general rule, the torque ranges specified for grade 10.9 fasteners can be used satisfactorily on 12.9 fasteners. *M14 is not a preferred size.			
M5	6.5	8	5	6	9.5	11	7	8				
M6	10.5	12	8	9	15	17.5	11	13				
M8	26	31	19	23	37	43	27	32				
M10	52	61	38	45	73	87	54	64				
M12	90	107	66	79	125	150	93	112				
*M14	144	172	106	127	200	245	149	179				
M16	217	271	160	200	310	380	230	280				
M20	434	515	320	380	610	730	450	540				
M24	675	815	500	600	1050	1275	780	940				
M30	1250	1500	920	1100	2000	2400	1470	1770				
M36	2175	2600	1600	1950	3500	4200	2580	3090				

NOTE 1: Bolt head identification marks as per grade. Manufacturing marks will vary.

STANDARD TORQUE DATA FOR HYDRAULIC TUBES AND FITTINGS

TUBE NUTS FOR 37° FLARED FITTINGS								O-RING BOSS PLUGS, ADJUSTABLE FITTING LOCK NUTS, SWIVEL JIC - 37° SEATS			
SIZE	TUBING O.D.		THREAD SIZE	LB FT		Nm		LB FT		Nm	
	Inches	mm		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
4	1/4	6.4	7/16-20	9	12	12	16	6	10	8	14
5	5/16	7.9	1/2-20	12	15	16	20	10	15	14	20
6	3/8	9.5	9/16-18	21	24	29	33	15	20	20	27
8	1/2	12.7	3/4-18	35	40	47	54	25	30	34	41
10	5/8	15.9	7/8-14	53	58	72	79	35	40	47	54
12	3/4	19.1	1-1/16-12	77	82	104	111	60	70	81	95
14	7/8	22.2	1-3/16-12	90	100	122	136	70	80	95	109
16	1	25.4	1-5/16-12	110	120	149	163	80	90	108	122
20	1-1/4	31.8	1-5/8-12	140	150	190	204	95	115	129	156
24	1-1/2	38.1	1-7/8-12	160	175	217	237	120	140	163	190
32	2	50.8	2-1/2-12	225	240	305	325	250	300	339	407

Above torque figures are recommended for plain, cadmium or zinc plated fittings, dry or wet installations and swivel nuts either swaged or brazed. These torques are not recommended for tubes 1/2 inch (12.7 mm) O.D. and larger with wall thickness of 0.035 inch (0.889 mm) or less. The torque is specified for 0.035 inch (0.889 mm) wall tubes on each application individually.

FLUID CAPACITIES AND TYPES

Engine Crankcase Capacity, Refill.....	20 Litres
New	22 Litres
Fluid Type.....	Case No. 1 Multi-Viscosity Engine Oil
Transmission/Hydraulic System Capacity, Refill	162 Litres
New	191.2 Litres

Fluid Type..... Hy-Tran Plus ® Fluid

Differential Housing Capacity - MFD	11 Litres
Planetary Housing Capacity - MFD (Each)	1 Quart (0.9 Litres)
Fluid Type.....	Case 135H EP Gear Lubricant
	Use one pint of Limited Slip additive in the differential

Cooling System Capacity.....	28.4 Litres
Fluid Type.....	50 Percent Ethylene Glycol Coolant

ENGINE SPEEDS

Governed Engine Speed without Load	2315 to 2395 RPM
Rated Engine Speed	2200 RPM
Engine Idle Speed	825 to 875 RPM

NUMBER OF TEETH ON THE FLYWHEEL..... 137

FUSES

Dome Lamp and Radio Clock	5 Amp
Fuel Shut Off	5 Amp
Shut Down Override	15 amp
Instrument Cluster - Run Position	7.5 Amp
Instrument Cluster - Accessory Position	5 Amp
Radio	5 Amp
Electronic Hitch System	7.5 Amp
Cigar Lighter	10 Amp
Ether Starting Aid	15 Amp
Differential Lock	10 Amp
Tail Lamps	10 Amp
Warning Lamps	15 Amp
Cab Roof Work Lamps	15 Amp
Mechanical Front Drive (If equipped)	7.5 Amp
Creeper Drive (If equipped)	7.5 Amp

BULB AND LAMP REPLACEMENT

Dome Lamp Bulb	No. 3050958R1
Console Lamp Bulb.....	No. 194
Flasher Lamp Bulb	No. 1156
Head Lamps.....	No. H3 and H4
Front and Rear Flood Lamps.....	No. H3
Tail Lamp Bulbs	No. 168
Rocker Switch Bulb	No. 3141107R1
Three Point Hitch Indicator Bulb	No. 182

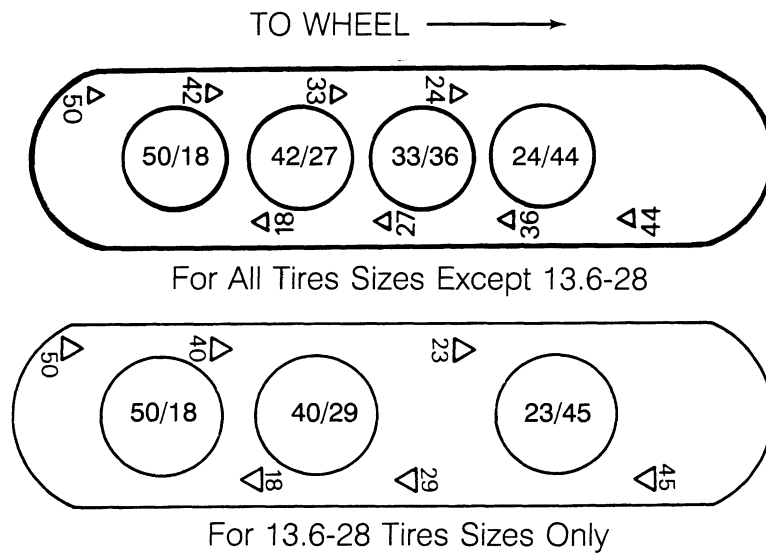
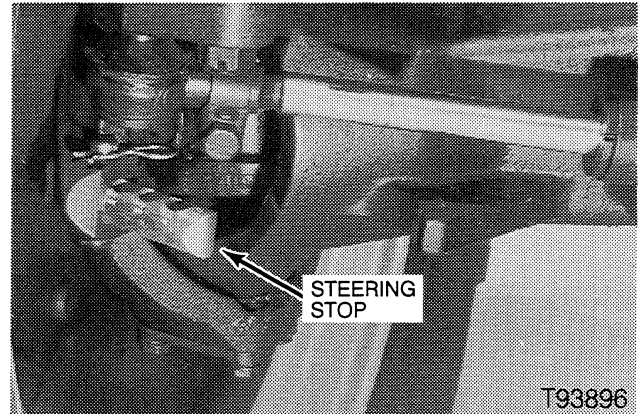
STEERING AND OSCILLATION STOPS - MFD

Tractors with mechanical front drive (MFD) are equipped with steering and oscillation stops. The steering and oscillation stops are used to give the required steering clearance between the front tires and tractor frame. The front tire size and tread width being used, will determine the required steering and oscillation angles.

Steering Stop

Each adjustment hole in the steering stop is identified with an arrow and a number. With the arrow pointing toward the wheel, the number indicates the turn angle when the mounting pin is installed in that hole. The steering stop can be installed in either direction depending on the tire size and tread width being used. See Steering and Oscillation Stop Charts for more information.

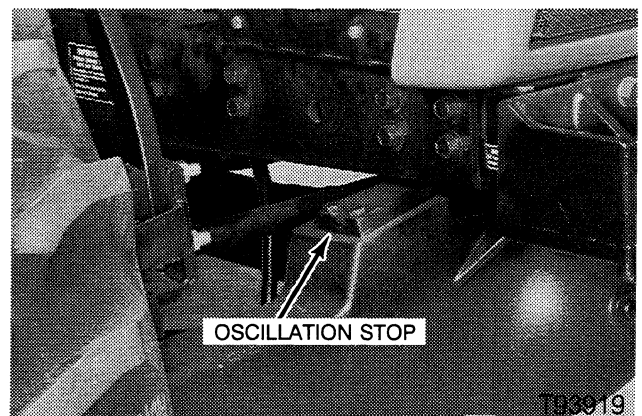
NOTE: The numbers shown in the hole outlines indicates the steering angle in degrees for that hole when installed in that direction.



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Oscillation Stop

Oscillation stops are required for some tire size and tread width combinations. The oscillation stops are installed on the axle stop pad on each side of the tractor.



Steering and Oscillation Stop Charts

The following charts show the steering stop turn angle and oscillation stop requirement for each tread width and tire size combination for tractors without fenders and with fenders.

TRACTORS EQUIPPED WITH 26 INCH (660 mm) DIAMETER WHEEL

STEERING STOP AND OSCILLATION STOP POSITIONS- W/O FENDERS									
TIRE SIZE	TYPE STOP	TREAD WIDTHS (INCHES)							
		62.1	66.5	71.3	75.8	79.1	83.5	88.3	92.8
18.4-26	A	N.A.	27	33	42	50	50	50	50
	B	N.A.	YES	YES	YES	YES	NO	NO	NO
16.9-26	A	24	33	44	50	50	50	50	50
	B	YES	YES	YES	YES	NO	NO	NO	NO
STEERING STOP AND OSCILLATION STOP POSITIONS- WITH FENDERS									
TIRE SIZE	TYPE STOP	TREAD WIDTHS (INCHES)							
		62.1	66.5	71.3	75.8	79.1	83.5	88.3	92.8
18.4-26	A	N.A.	N.A.	27	36	36	44	44	50
	B	N.A.	N.A.	YES	YES	YES	NO	NO	NO
16.9-26	A	24	27	27	36	36	44	44	50
	B	YES	YES	YES	YES	NO	NO	NO	NO

TRACTORS EQUIPPED WITH 28 INCH (711 mm) AND 30 INCH (762 mm) DIAMETER WHEEL

STEERING STOP AND OSCILLATION STOP POSITIONS- W/O FENDERS									
TIRE SIZE	TYPE STOP	TREAD WIDTHS (INCHES)							
		60.1	64.5	69.3	73.8	81.1	85.5	90.3	94.8
13.6-28	A	29	40	45	50	50	50	50	50
	B	YES	YES	YES	NO	NO	NO	NO	NO
14.9-28	A	24	36	42	50	50	50	50	50
	B	YES	YES	YES	YES	NO	NO	NO	NO
16.9-28	A	18	27	36	42	50	50	50	50
	B	YES	YES	YES	YES	NO	NO	NO	NO
14.9-30	A	24	33	42	50	50	50	50	50
	B	YES	YES	YES	YES	NO	NO	NO	NO
STEERING STOP AND OSCILLATION STOP POSITIONS- WITH FENDERS									
TIRE SIZE	TYPE STOP	TREAD WIDTHS (INCHES)							
		60.1	64.5	69.3	73.8	81.1	85.5	90.3	94.8
13.6-28	A	23	23	29	29	40	45	50	50
	B	YES	YES	YES	NO	NO	NO	NO	NO
14.9-28	A	24	24	27	36	42	44	50	50
	B	YES	YES	YES	YES	NO	NO	NO	NO
16.9-28	A	18	24	27	36	42	44	50	50
	B	YES	YES	YES	YES	NO	NO	NO	NO
14.9-30	A	24	24	27	36	42	44	50	50
	B	YES	YES	YES	YES	NO	NO	NO	NO

Type Stop A = Steering Stop Angle Number Type Stop B = Oscillation Stop Required

NOTE: N.A. indicates that the tread width is not approved for these tire sizes because of clearance requirements.

TIRE SPECIFICATIONS

TIRE SIZE	TIRE RATING	TREAD TYPE	INFLATION PRESSURE
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Front Tires - Two Wheel Drive

11.0-16	8 PLY	F2M	40 PSI (276 kPa)
11.0-16	12 PLY	F2M	60 PSI (414 kPa)
14L-16.1	6 PLY	F2M	28 PSI (193 kPa)
14L-16 1	10 PLY	F2M	44 PSI (303 kPa)
16.5L-16.1	8 PLY	F2M	32 PSI (221 kPa)

Front Tires - Mechanical Front Drive (MFD)

13.6-28	10 PLY	R1	36 PSI (248 kPa)
13.6R-28	3 STAR	R1	30 PSI (207 kPa)
14.9-28	6 PLY	R1	20 PSI (138 kPa)
14 9-28	10 PLY	R1	32 PSI (221 kPa)
14.9R-28	3 STAR	R1	30 PSI (207 kPa)
14.9-30	10 PLY	R1	32 PSI (221 kPa)
16.9-26	6 PLY	R1 & R2	18 PSI (124 kPa)
16.9-26	10 PLY	R1 & R2	28 PSI (193 kPa)
16.9R-26	2 STAR	R1	24 PSI (165 kPa)
16.9-28	6 PLY	R1	18 PSI (124 kPa)
16.9R-28	2 STAR	R1	24 PSI (165 kPa)
18.4-26	6 PLY	R1	16 PSI (110 kPa)
18.4-26	10 PLY	R2	26 PSI (179 kPa)
18.4R-26	2 STAR	R1	30 PSI (207 kPa)

TIRE SIZE	TIRE RATING	TREAD TYPE	INFLATION PRESSURE
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Rear Tires

16.9-38	8 PLY	R1	16 to 24 PSI (110 to 165 kPa)
18.4-38	8 PLY	R1 & R2	16 to 20 PSI (110 to 138 kPa)
18.4R-38	1 STAR	R1 & R2	16 to 18 PSI (110 to 124 kPa)
18.4-38	10 PLY	R1 & R2	16 to 26 PSI (110 to 179 kPa)
18.4-38	8 PLY	R1 & R2	12 to 16 PSI (83 to 110 kPa)
18.4-42	8 PLY	R1	16 to 20 PSI (110 to 138 kPa)
18.4-42	10 PLY	R1	16 to 26 PSI (110 to 179 kPa)
18.4R-42	2 STAR	R1	16 to 24 PSI (110 to 165 kPa)
20.8-38	8 PLY	R1 & R2	16 to 18 PSI (110 to 124 kPa)
20.8R-38	1 STAR	R1 & R2	16 to 18 PSI (110 to 124 kPa)
23.1-34	8 PLY	R1	16 PSI (110 kPa)
24.5R-32	1 STAR	R1	18 PSI (124 kPa)

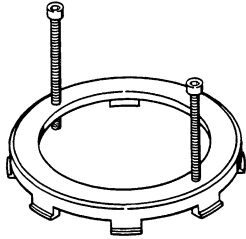


Do not remove, install or make repairs to a tire on a rim. Take the tire and rim to a tire shop where persons with special training and special safety tools are available. If the tire is not in correct position on the rim, or if too full of air, the tire bead can loosen on one side and cause air to leak at high speed and with large force. Because the air leak can thrust the tire in any direction, and with much force, you will be in danger of injury.

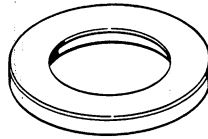
M169A

SERVICE TOOLS INTRODUCED FOR 7100 SERIES Transmission Service

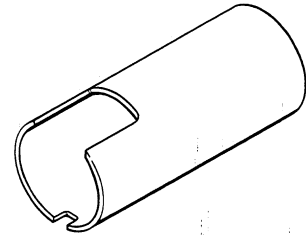
CAS-1903 CLUTCH SPRING COMPRESSOR TOOL SET INCLUDES CAS-1903-1-2-3-4-5
Used in Section 6005,6006



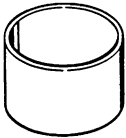
CAS-1903-1
COMPRESSOR PLATE WITH TWO
CAPSCREWS AND SIX TANGS



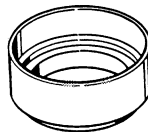
CAS-1903-2
COMPRESSOR PLATE



CAS-1903-3
COMPRESSOR SLEEVE WITH NOTCH



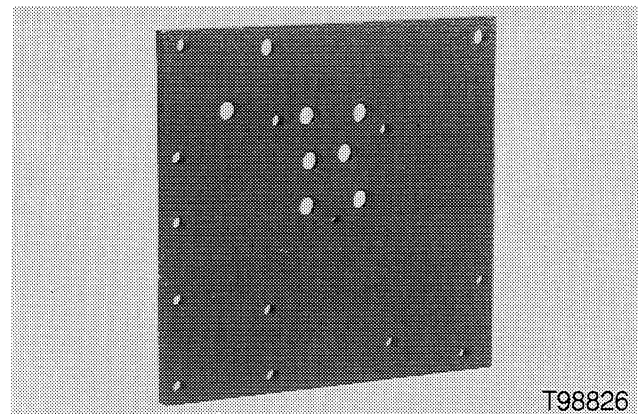
CAS-1903-4
CENTERING SLEEVE



CAS-1903-5
COMPRESSOR SLEEVE

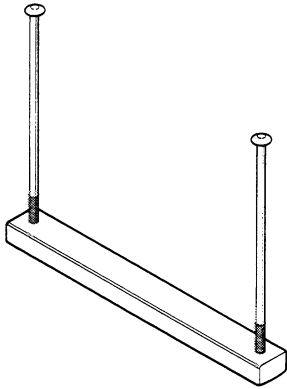


CAS-1908
TEST AND ALIGNMENT TOOL FOR MFD CLUTCH
Used in Section 6006

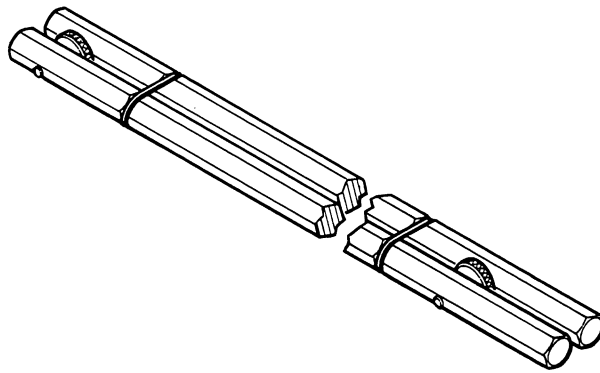


CAS-1905-1
TRANSMISSION CLUTCH LEAK TEST PLATE
Used in Section 6004,6005,6006

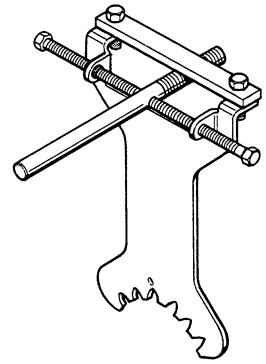
CAS-1902 REAR AXLE PINION SETTING TOOL SET - INCLUDES CAS 1902-1-2-3-5



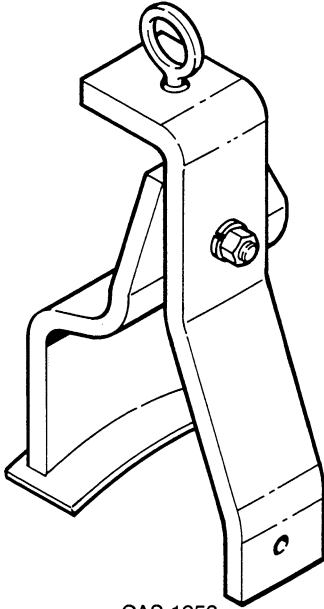
CAS-1902-1
BEVEL PINION SETTING TOOL
Used in Section 6008



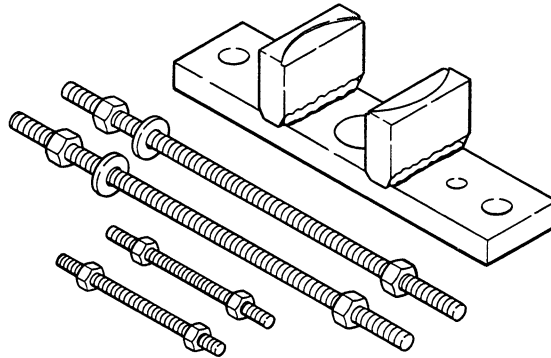
CAS-1902-2
ROLLING TORQUE ADAPTER
Used in Section 6008



CAS-1902-3 - (7130-7140)
CAS-1902-5 - (7110-7120)
SUN GEAR SHAFT ALIGNMENT TOOL
Used in Section 6009

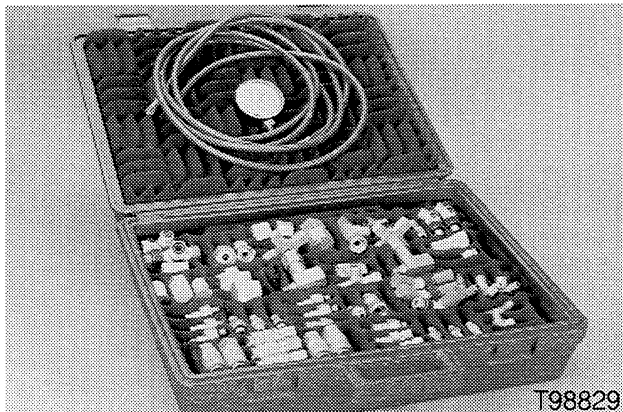


CAS-1952
REAR DIFFERENTIAL LIFTING TOOL
Used in Section 6008



CAS-1907
PTO CLUTCH SERVICE TOOL
Used in Section 6010

HYDRAULIC TEST FITTINGS



CAS-1904
TEST FITTING KIT
SUPPLEMENT FOR CAS-1803

CAS-1906
FLOWMETER FITTING KIT
SUPPLEMENT FOR CAS-1807

T98829

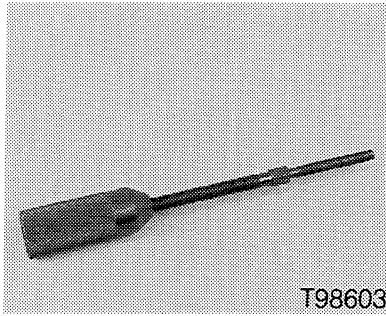


CAS-10851
VOLTAGE REGULATOR TESTER
Used in Section 4004

T94178

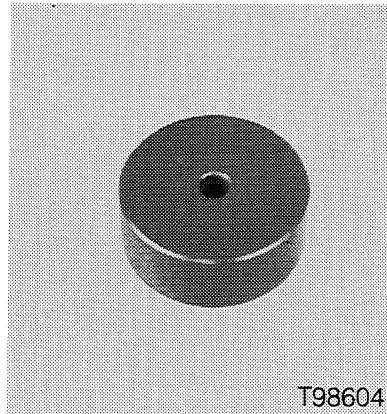
MFD AXLE SERVICE

CAS-1898 Pinion Setting Tool Set - Includes CAS-1898 - 1, 3, 4, 6, 7, 8 and 9
Used in Section 6012



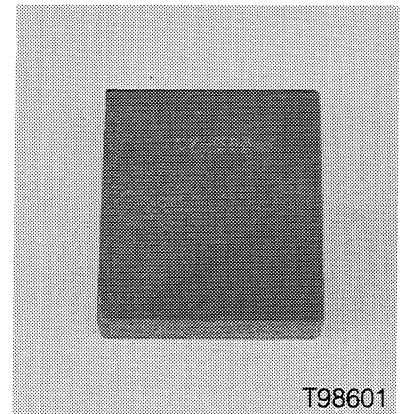
T98603

CAS-1898-1 HANDLE
CAS-1898-2 THREADED SHAFT



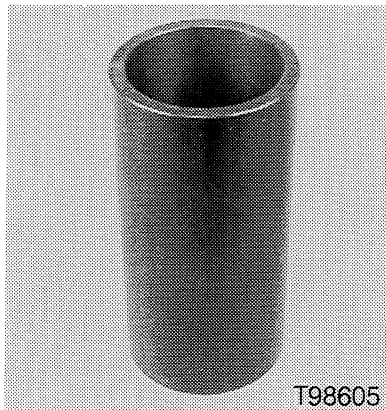
T98604

CAS-1898-3
GAUGE DISC



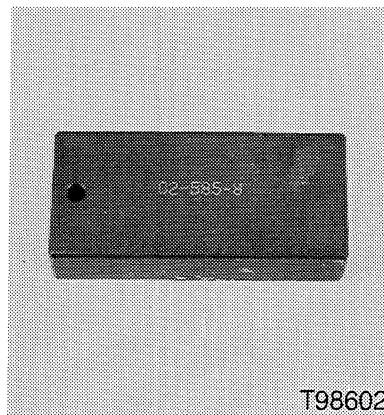
T98601

CAS-1898-4
GAUGE BLOCK



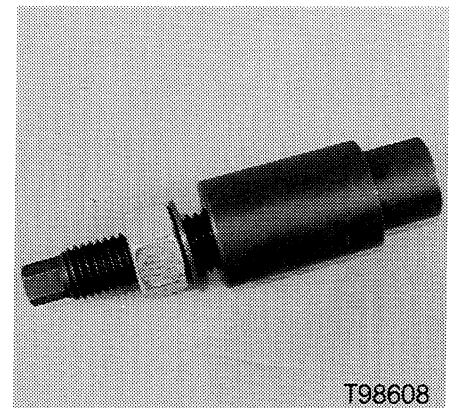
T98605

CAS-1898-6
TUBE FOR BEARING BORES



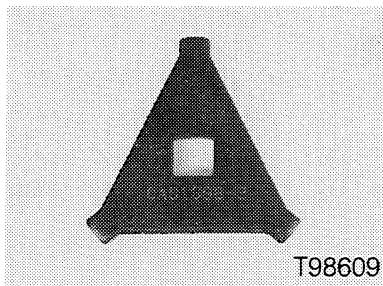
T98602

CAS-1898-7
CHECK BLOCK



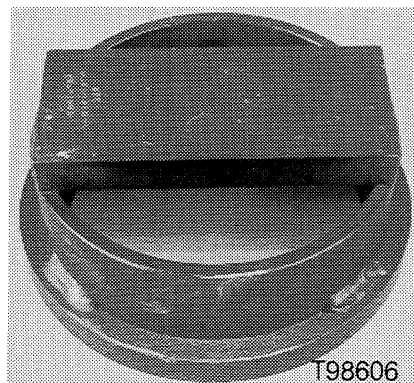
T98608

CAS-1898-8
COMPANION FLANGE INSTALLER



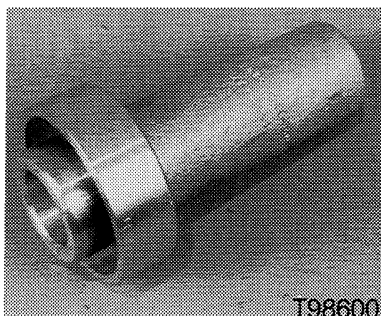
T98609

CAS-1898-9
SIDE BEARING ADJUSTING WRENCH



T98606

CAS-1900
PLANETARY HOUSING BEARING AND
SEAL DRIVER USED IN SECTION 6013



T98600

CAS-1899
PINION SEAL INSTALLER
Used in Section 6012

NOTE: The CASE CORPORATION reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold

Click on the image link below for the full
version of the service manual

