



SERVICE MANUAL

INTERNATIONAL

CHASSIS

DIESEL TRACTORS

955 + 1055

1091 320 R1



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INTRODUCTION

General

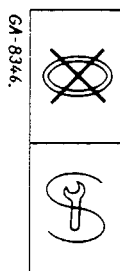
This Chassis Service Manual has been prepared as part of and to complete a series of manuals — such as for engine, transmission, hydrostatic steering and hydraulic draft control — for the guidance of the skilled serviceman who is responsible for the repair and overhaul of International Tractors.

In addition to being a comprehensive workshop guide this Service Manual also points out the various possibilities of re-equipment and replacement to improve the tractor's performance for a specific application.

For general directions e.g. special torques etc. see Service Manual "General Service Information".

Key to Symbols

The following symbols are shown on some Illusts. in this manual.



Replace on every tear-down

Use "Special Tool"

Special Tools

A minimum of special tools is required. For details see corresponding section of this Service Manual and/or Parts Catalog.

SI Measurements

A standard of measurement known as International System of Units (SI) has been adopted for world-wide use. These units are used throughout this manual.

SI Unit

mm	— millimeter
cm	— centimeter
cm ³	— cubic centimeter
m ³	— cubic meter
l	— liter
kg	— kilogram
kPa	— kilopascal
MPa	— Megapascal
N	— Newton
daN	— dekanewton
Nm	— Newton meter
daNm	— dekanewton meter
°C	— degrees-Celsius
kW	— kilowatt
l/min	— liter/minute
km/h	— Kilometer/hour
1/min	

English Equivalent

0.039 inches
0.39 inches
0.06 cubic inches
35.31 cubic feet
1.057 quarts
2.205 pounds weight
0.145 psi
145 psi
0.225 pounds force
2.25 pounds force
0.738 foot pounds force
7.38 foot pounds force
°Fahrenheit = 1.8 x °C + 32
1.34 horsepower
0.219 gallons per minute
0.621 miles per hour
rpm



INTRODUCTION

Safety Precautions



This symbol is used to call your attention to instructions concerning your personal safety. Be sure to observe and follow these instructions.

1. Caution is the most effective safeguard against accidents during a repair.
2. Keep the place of repair, surrounding area as well as ladders, tools, etc. free of oil and grease.
3. When working on rear axle or removing engine, block front axle with wooden wedges to prevent tilting.
4. Be extra careful in the vicinity of a running engine, fan blades or exposed shaft ends. Wear tight clothing.
5. Never attempt to loosen or tighten hose couplings or fittings of air pressure or hydraulic system while the engine is running or power cylinders are under pressure.
6. Beware of hot oil and coolant when draining.
7. Keep your tools in good condition. Worn or damaged tools may cause accidents or spoil good machine parts.
8. Keep lifting equipment in proper order. Do not overload! Tie heavy parts securely before lifting.
9. Take care when removing preloaded springs! Keep under control until spring is relieved.
10. Wear approved protective goggles when grinding and cleaning with compressed air.
11. When in-doors or in built-up areas observe existing fire regulations for combustion engines. Make sure exhaust gases are diverted into the open and rooms are sufficiently ventilated.
12. When testing brakes or steering system always perform on open premises (not public roads!). Make test in safe distance from persons or obstacles.
13. Before working on the electrical system, disconnect battery negative (ground) cable first. After repair reconnect this cable last.
14. When charging batteries observe manufacturer's safety instructions. Wear protective clothing and glasses, if necessary.
15. For welding repairs carefully observe all safety regulations.



GENERAL TECHNICAL DATA

Service Brake

Hydraulically operated, twin disk type wet brake, acting on the rear wheels.

Parking Brake

Mechanical band and drum type acting on the differential drive

Clutch

Dual Clutch

Make =

F & S

Model = Engine Clutch
PTO—Clutch

— single type dry disk —
— single type dry disk —

Front Wheel Drive Axle

Make =

ZF

Type =

APL 3052

Advanced drive of front wheels in respect to rear wheels in %

+5 to -1

Ratio front to rear axle

1.376

Dimensions (in mm)	955		1055	
	Standard	Four wheel drive version	Standard	Four wheel drive version
Length overall (with three-point suspension hitch)	4194	4229	4194	4229
Width overall (to outside edge of rear wheel fenders)	2306	2306	2306	2306
Height overall (to top of exhaust muffler)	2744	2884	2778	2918
Height overall (to top of cabin) max.	2649-2675	2649-2675	2649-2699	2649-2699
Wheel base	2627	2587	2627	2587
Ground clearance (under front axle)	512	412	512	412
(under transmission)	401	401	401	401
Turning radius, with steering brake applied	4400	4700	4400	4700
without steering brake applied	5050	5350	5050	5350

Note: Dimensions apply to the following tire equipment:

Front 7.50 — 18 AS
Rear 18.4/15 — 34 AS 6 PR
FWD 11.2/10 — 28 AS 6 PR with
18.4/15 — 34 AS 6 PR

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