



ATV 260 / 300

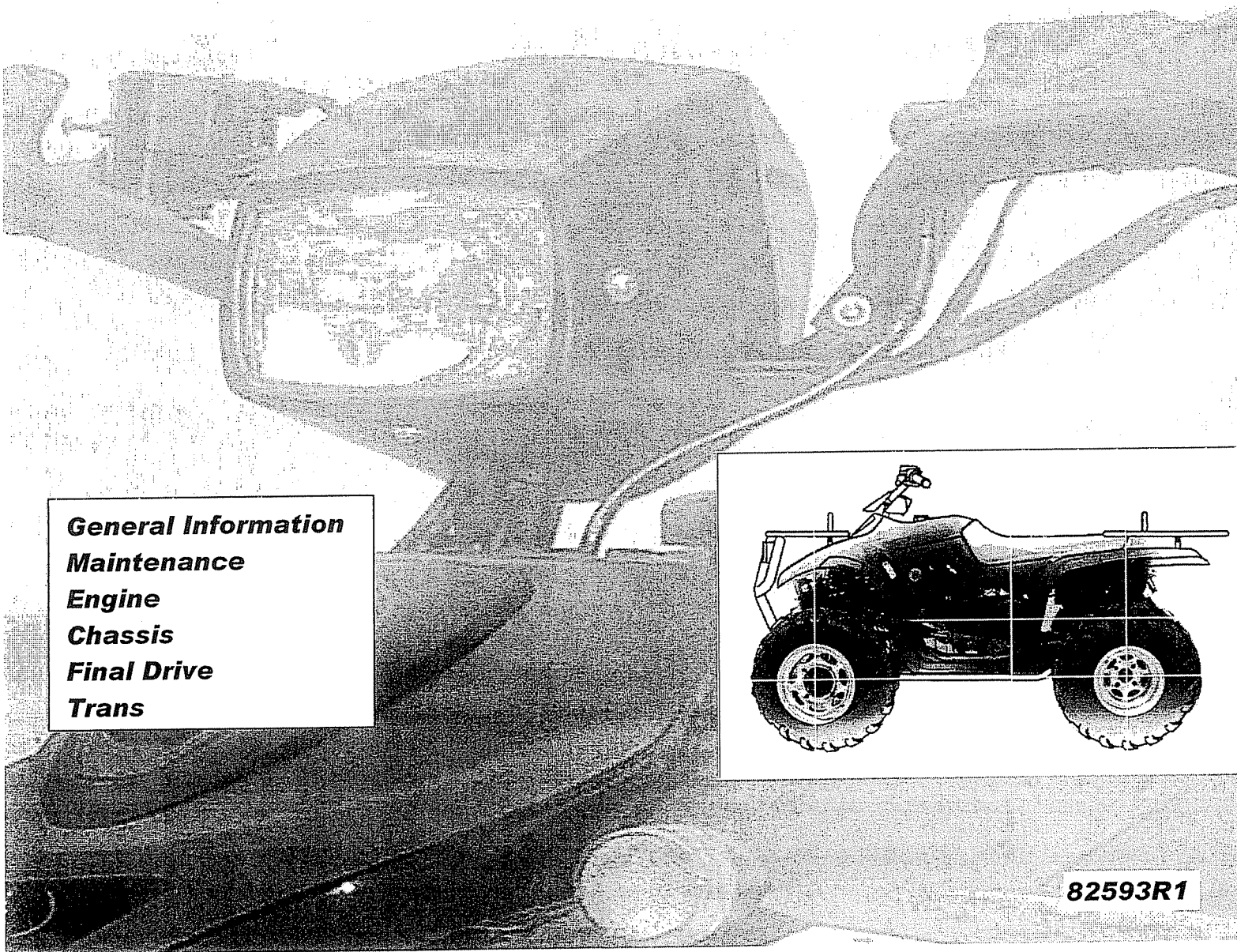
2005

Models:

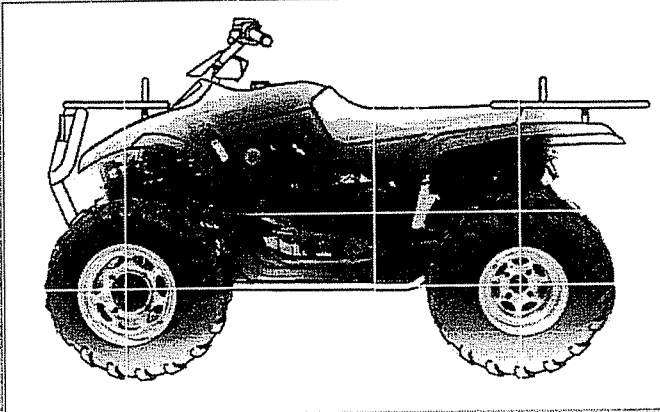
2x4

4x4

SERVICE MANUAL



- General Information**
- Maintenance**
- Engine**
- Chassis**
- Final Drive**
- Trans**



82593R1

Foreword

This manual is designed primarily for use by the ATV factory certified service technicians in a properly equipped shop. Persons using this manual should have a sound knowledge of mechanical theory, tool use, and shop procedures in order to perform the work safely and correctly. The technician should read the text and be familiar with service procedures before starting the work. Certain procedures require the use of special tools. Use only the proper tools, as specified. Cleanliness of parts and tools as well as the work area is of primary importance.

This manual is divided into sections. Each section covers a specific ATV component or system and, in addition to the standard service procedures. Keep this manual available for reference in the shop area. When using this manual as a guide, the technician should use discretion as to how much disassembly is needed to correct any given condition.

All references to left and right side of the vehicle are from the operator's perspective when seated in a normal riding position.

At the time of publication all information contained in this manual was technically correct. Some photographs used in this manual are used for clarity purposes only and are not designed to depict actual conditions. We constantly refine and improve its products, all materials and specifications are subject to change without notice.

This ATV's publications and decals display the words **Warning**, **Caution**, **Note**, and **At This Point** to emphasize important information:



This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Your safety is involved!



WARNING

Indicates a potential hazard which could result in severe injury or death.



CAUTION

Indicates a potential hazard which may result in minor personal injury or damage to the machine.

NOTE The word "**NOTE**" in this manual will alert you to key information or instructions.

CONTENTS

CHAPTER1	General Information
CHAPTER2	Maintenance
CHAPTER3.....	Engine
CHAPTER4.....	Chassis
CHAPTER5.....	Final Drive
CHAPTER6.....	Transmission
CHAPTER7.....	Brakes
CHAPTER8.....	Electrical
CHAPTER9	4X6



WARNING

Never run an engine in an enclosed area. Carbon monoxide exhaust gas is poisonous and can cause severe injury or death. Always start engines outdoors.

Gasoline is extremely flammable and explosive under certain conditions. Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing. Always keep alert and wear protection..

Exhaust system components are very hot during and after use of ATV. Never service when the engine is warm or hot. Escaping steam from cooling system or hot oil from the machine can cause severe burns. The engine must be cool before service.

Crate of the ATV and parts in the ATV maybe have sharp edge, always pay attention and wear protection.

CHAPTER 1 GENERAL INFORMATION

1.1 IMPORTANT INFORMATION

1.2 V.I.N AND ENGINE SERIAL NUMBER

1.3 VEHICLE DIMENSIONS

1.1 IMPORTANT INFORMATION

PREPARATION FOR REMOVAL PROCEDURES

1. Remove all dirt, mud, dust and foreign material before removal and disassembly.
2. Use proper tools and cleaning equipment.
3. When disassembling the machine, always keep mated parts together. This includes gears, cylinders, pistons and other parts that have been "mated" through normal wear. Mated part must always be reused or replaced as an assembly.
4. During machine disassembly, clean all parts and place them in trays in the order of disassembly. This will speed up assembly and allow for the correct installation of all parts.
5. Keep all parts away from any source of fire.

REPLACEMENT PARTS

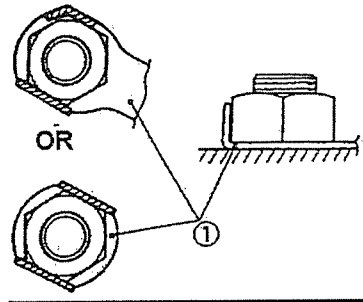
Use only genuine parts for all replacements. Use recommended oil and grease for all lubrication jobs. Other brands may be similar in function and appearance, but inferior in quality.

GASKETS, OIL SEALS AND O-RINGS

1. Replace all gaskets seals and O-rings when overhauling the engine. All gasket surfaces, oil seal lips and O-rings must be cleaned.
2. Properly oil all mating parts and bearings during reassembly. Apply grease to the oil seal lips.

LOCK WASHERS/PLATES AND COTTER PINS

Replace all lock washers/plates and cotter pins after removal. Bend lock tabs along the bolt or nut flats after the bolt or nut has been tightened to specification.



BEARINGS AND OIL SEALS

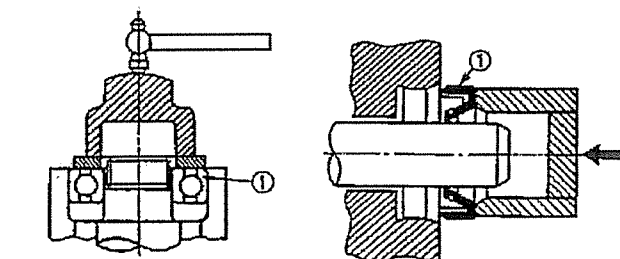
Install bearings and oil seals so that the manufacturer's marks or numbers are visible. When installing oil seals, apply a light coating of lightweight lithium base grease to the seal lips. Oil bearings liberally when installing, if appropriate.

① oil seal

CAUTION:

Do not use compressed air to spin the bearings dry. This will damage the bearing surfaces.

① Bearing

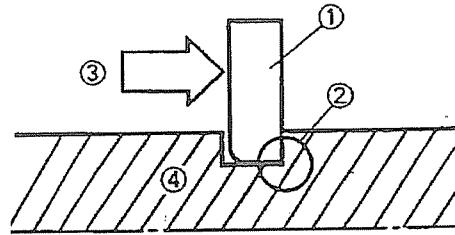


CIRCLIPS

1. Check all circlips carefully before reassembly. Always replace piston pin clips after one use.

Replace distorted circlips. When installing a circlip ①, make sure that the sharp-edged corner ② is positioned opposite the thrust ③ it receives. See sectional view.

④ Shaft



CHECKING OF CONNECTIONS

Dealing with stains, rust, moisture, etc. on the connector.

1. Disconnect:
 - Connector
2. Dry each terminal with an air blower.
3. Connect and disconnect the connector two or three.
4. Pull the lead to check that it will not come off.
5. If the terminal comes off, bend up the pin ① and reinsert the terminal into the connector.
6. Connect:
 - Connector



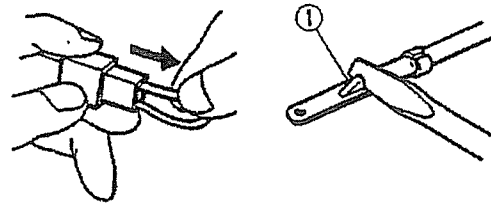
NOTE:

The two connectors "click" together.

7. Check for continuity with a tester.

NOTE:

- If there is no continuity, clean the terminals.
- Be sure to perform the steps 1 to 7 listed above when checking the wire harness.
- Use the tester on the connector as shown.



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CONVERSION TABLE

How to use the CONVERSION TABLE

Use this table to convert METRIC unit data to IMPERIAL unit data.

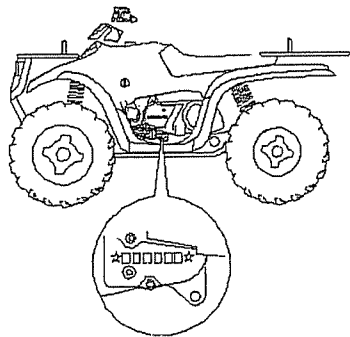
Ex.

METRIC		MULIPLIER	=	IMP
**mm	x	0.03937	=	**in
2mm	x	0.03937	=	0.08in

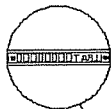
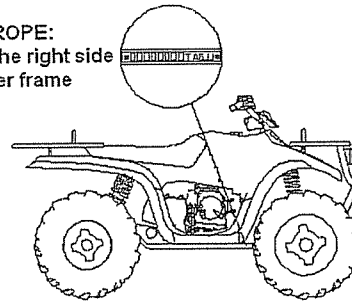
CONVERSION TABLE

METRIC TO IMP			
	Known	Multiplier	Result
Torque	m • kg	7.233	ft • lb
	m • kg	86.794	In • lb
	cm • kg	0.0723	ft • lb
	cm • kg	0.8679	In • lb
Weight	kg	2.205	lb
	g	0.03527	oz
Distance	km/h	0.6214	mph
	km	0.6214	mi
	m	3.281	ft
	m	1.094	yd
	cm	0.3927	in
	mm	0.03927	in
Volume/ Capacity	cc(cm ³)	0.03527	oz(IMP liq.)
	cc(cm ³)	0.06102	cu • in
	lit(liter)	0.8799	qt (IMP liq.)
	lit(liter)	0.2199	gal(IMP liq.)
Miscellaneous	kg/mm	55.997	lb/in
	kg/cm ²	14.2234	psi(lb/in ²)
	Centigrade	9/5(°C)+32	Fahrenheit(° F)

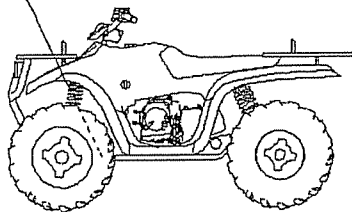
ENGINE SERIAL NUMBER



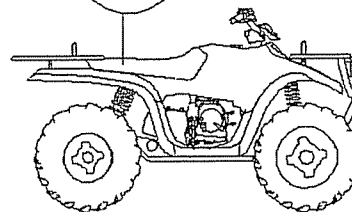
EUROPE:
on the right side
lower frame



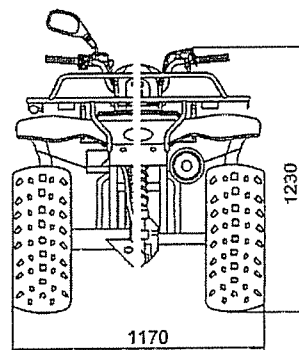
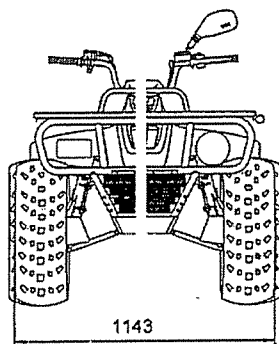
USA:
on the left side lower frame



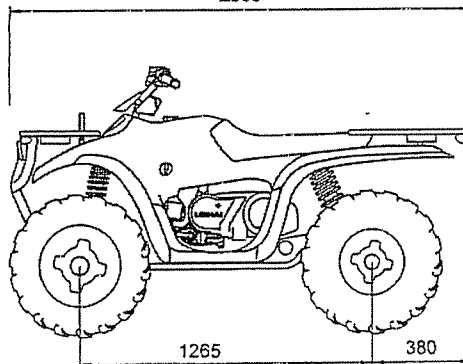
Or:
on the upper frame
under the seat



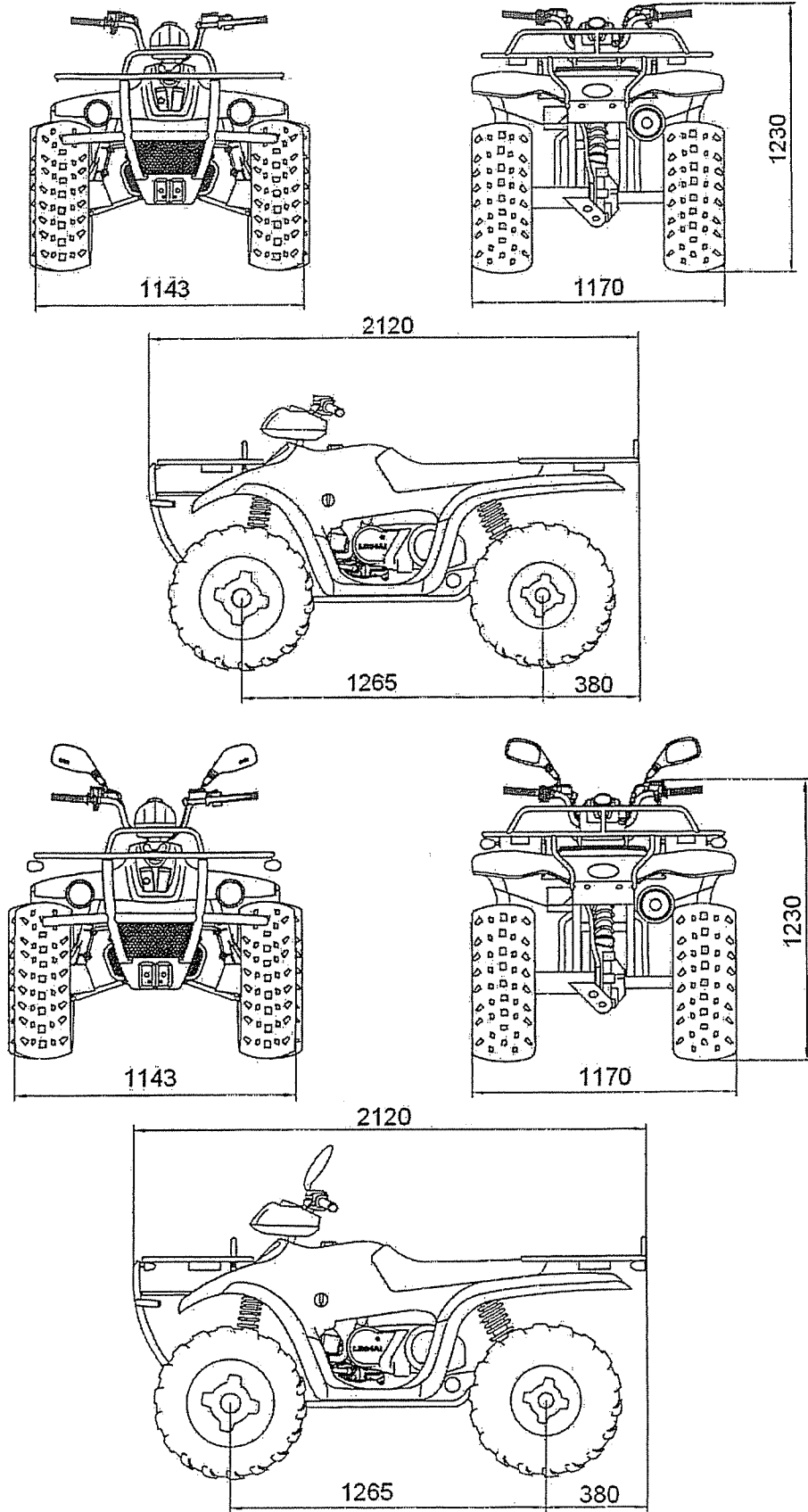
1.3 VEHICLE DIMENSIONS



2096



'05 Model



Demon

