

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

Adly - Adly ATV-300S_U (I) 9261-2006 Service

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SERVICE MANUAL

ATV-300S/U

OCTOBER, 2006

High Power Engine HER

CHEE INDUSTRIAL CO., LTD.

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Foreword

This service manual contains information on servicing ATV-300.

This manual is written for use as a guideline only. It is recommended that any mechanic, with or without sufficient experience, thoroughly read through the manual and only attempt to service those areas that are fully understood in accordance with the guidelines provided by this manual. For fully qualified mechanics, this manual supplies service data necessary for repairs and maintenance. It is highly recommended that a qualified mechanic, regardless of technical level, should study the service manual in full before attempting service on ATV-300.

All the data and diagrams provided in this service manual are valid at the time of publication. Information may be updated without notice due to improvements or upgrades.

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****MAINTENANCE SPECIAL TOOLS****

- * Install crankshaft tool (TLH3-01)
- * Bearing puller set (TLH3-04)
- * Fly wheel puller (TLH3-02)
- * Valve install / remove tool (TLH3-03)
- * Valve adjustment tool (TLH3-05)

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****ASSEMBLY INSTRUCTION****

1. Take out the battery and fill with acid liquid. Pre-charge the battery will extend its life. The preparation and charge procedure is based on the batteries instruction.
2. Install the front and rear wheels and parts in the following order:
 - A. 18x40x4.5mm washer
 - B. 18mm hex-bolt (torque 14 kg-m, 135 N-m)
 - C. Cotter pin (open up the end after installed)
 - D. Rubber cap.
3. Install the front bumper.
4. Set the handle bar into the lock-pin of the steering base. Tie-up the 4 hex-socket bolts. Install the front cover into the handlebar.
5. Install battery with the red wire to positive (+) first and the black wire to the negative (-). Use rubber strip to fix the battery onto frame.
6. Check the oil gage to see if the oil quantity is on the upper position. The oil type is 10W/40 for normal condition. It would be better for the engine to choose synthetic type. Fill up unleaded gasoline to operate. Be sure the arrow mark on the fuel valve arm (petcock) is set into the correct position (ON).
7. Turn on the main switch and try to start-up the engine. In order to use the electric starter, you need to check the following:
 - A. Check the neutral indication light should be on.
 - B. Press the electric starter bottom to start.

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****P.D.I. (Pre-Delivery Inspection)****

- * 1. Record the frame and engine number into the owners manual.
- * 2. Check that all tires have correct pressure specified on the tire or in the owners manual.

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- * 3. Engine oil is enough.
- * 4. Battery is installed properly.
- * 5. All cables are adjusted properly. (brake, throttle, choke)
- * 6. Fuel tank has enough gasoline to operate.
- * 7. Check the suspension and drive chain for proper setup.
- * 8. Check all electrical components and lights are working properly.
- * 9. Make sure that the owners manual and tool bag are installed on left side of the seat in the tool box.

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****1-1 INFORMATION FOR PREPARATION****

****Attention on Operation****

- * All washers, oil rings, clamp rings, opening pins shall be duly replaced by a new item when dismounted.
- * Locking of all screws, nuts, cross screws shall be performed in the order of first the large screws and then the small ones and from inside to outside in opposite angles by tightening the torque locks.
- * All items must use original parts, pure oil and greases.
- * All service shall use special tools and general tools to repair.
- * All dismounted items requiring for checks shall be duly cleaned and for assembly, all items shall be duly lubricated.

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****1-2 INFORMATION FOR PREPARATION****

****Attention on Operation****

- * Certified lubricants in cans shall be used on all the elements to be lubricated.
- * After assembly, performance of all elements shall be duly checked and the locking shall be duly verified.
- * In case of an operation is performed by over 2 people, the assignment shall be conducted in coordination and safety shall be the first priority.
- * Definition of signs: The sign given in the Service Manual shall refer to the operation methods and observation.

- * OIL: Lubrication by designated lubricant.
- * GREASE: Lubrication by grease
- * Special Tool: Parts on which special tools shall be used
- * General Tool: General tools shall be used
- * New: Replace by new items after dismounting
- * Attention

Dangerous and important operations

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****1-3 INFORMATION FOR PREPARATION****

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SPECIFICATION (UTILITY)

- * **TYPE:** ATV-300U (92/61)
- * **LENGTH:** 1800 mm
- * **WIDTH:** 1030 mm
- * **HEIGHT:** 930 mm
- * **SEAT HEIGHT:** 800 mm
- * **WHEEL BASE:** 1150 mm
- * **NET WEIGHT:** 200 kg
- * **ENGINE TYPE:** 4-STROKE, Single Cylinder
- * **COOLING:** AIR COOLED
- * **DISPLACEMENT:** 282 c.c.
- * **BORE x STROKE:** Ø 74 x 65.5 mm
- * **TRANSMISSION:** Manual, 5 speed
 - * First gear: 0.095
 - * Second gear: 0.139
 - * Third gear: 0.190
 - * Forth gear: 0.242
 - * Fifth gear: 0.299
 - * Reverse gear: 0.065
- * **CLUTCH TYPE:** Wet, Multi-disc
- * **ENGINE OIL (CHANGE):** 10W/40 (Standard), 2.0 Lit
- * **ENGINE IDLE SPEED:** 1400 ± 100 rpm
- * **VALVE CLEARANCE:** 0.08 - 0.12 mm
- * **STARTING:** Electric starter and pull start
- * **SPARK PLUG:** NGK DR8EA
- * **SPARK PLUG GAP:** 0.6~0.7 mm
- * **IGNITION:** C.D.I
- * **SUSPENSION:**
 - * Front: Double A-Arm with preload adjustable shock
 - * Rear: Swing arm with preload adjustable shock
- * **BRAKE:**
 - * Front: Double Disc
 - * Rear: Disc
- * **BATTERY:** 8 Amps/h, Maintenance Free
- * **FINAL DRIVE:** Chain
- * **FRONT TIRE:** 21x7-10 (Optional 22 x 8-10)
- * **REAR TIRE:** 21x10-8 (Optional 22 x 11-10)
- * **FRONT BUMPER (LOAD):** 30kg
- * **REAR BUMPER (LOAD):** 45kg

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1-4 INFORMATION FOR PREPARATION

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SPECIFICATION (SPORTY)

- * **TYPE:** ATV-300S (92/61)
- * **LENGTH:** 1740 mm
- * **WIDTH:** 1050 mm
- * **HEIGHT:** 1080 mm
- * **SEAT HEIGHT:** 820 mm
- * **WHEEL BASE:** 1150 mm
- * **NET WEIGHT:** 190 kg
- * **ENGINE TYPE:** 4-STROKE, Single Cylinder
- * **COOLING:** AIR COOLED
- * **DISPLACEMENT:** 282 c.c.
- * **BORE x STROKE:** Ø 74 x 65.5 mm
- * **TRANSMISSION:** Manual, 5 speed
 - * First gear: 0.095
 - * Second gear: 0.139
 - * Third gear: 0.190
 - * Forth gear: 0.242
 - * Fifth gear: 0.299
 - * Reverse gear: 0.065
- * **CLUTCH TYPE:** Wet, Multi-disc
- * **ENGINE OIL (CHANGE):** 10W/40 (Standard), 1.6 Lit
- * **ENGINE IDLE SPEED:** 1400 ± 100 rpm
- * **VALVE CLEARANCE:** 0.08 - 0.12 mm
- * **STARTING:** Electric starter and pull start
- * **SPARK PLUG:** NGK DR8EA
- * **SPARK PLUG GAP:** 0.6~0.7 mm
- * **IGNITION:** C.D.I
- * **SUSPENSION:**
 - * Front: Double A-Arm with preload adjustable shock
 - * Rear: Swing arm with preload adjustable shock
- * **BRAKE:**
 - * Front: Double Disc
 - * Rear: Disc
- * **BATTERY:** 8 Amps/h, Maintenance Free
- * **FINAL DRIVE:** Chain
- * **FRONT TIRE:** 21x7-10 (Optional 22 x 8-10)
- * **REAR TIRE:** 21x10-8 (Optional 22 x 11-10)