

Adly - Adly ATELIER300 - 2004 service

Here's the English translation of the ADLY MOTO workshop manual text, maintaining the technical specs:

****ADLY MOTO****

****WORKSHOP MANUAL****

****300 Sport / Utility****

****JULY, 2004****

****HER CHEE INDUSTRIAL CO., LTD.****

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****Foreword****

This manual contains information regarding the overhaul of the ADLY 300. It is presented as a user guide. It is recommended that all mechanics, experienced or inexperienced, read the manual carefully before attempting any overhaul of elements believed to be well understood, in accordance with the manual's instructions. For experienced mechanics, this manual provides the necessary data for repair and maintenance. It is strongly recommended that experienced mechanics, regardless of their technical level, thoroughly study this manual before beginning an overhaul of the ADLY 300. All data and diagrams in this manual are valid at the time of publication. Certain information may be updated without notice due to improvements. No reference, reproduction, or reprint, even partial, of this manual will be permitted without the written consent of ADLY Motor sport.

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****ASSEMBLY****

1. Remove the battery and fill with electrolyte. Pre-charging the battery increases its lifespan. The preparation and charging procedure are in the battery instructions.
2. Install the front and rear wheels and parts in the following order:
 - A. Washers 18 x 40 x 4.5 mm.
 - B. 18 mm Hex Bolt (Torque: 14 kg-m, 135 N-m).
 - C. Cotter pin (open the end after installation).
 - D. Rubber Cap.
3. Install the front bumper.
4. Place the handlebar in the steering base.
Tighten the 4 Allen bolts.
Install the front fairing.
5. Install the battery, first with the red wire for the positive (+) terminal and then the black wire for the negative (-) terminal.
Use the rubber band to secure the battery in the frame.
6. Check the oil level using the oil level indicator.
The oil type is 10W/40 under normal conditions. Synthetic type is more suitable for the engine.
Fill with unleaded gasoline to operate the vehicle.
Make sure the arrow on the fuel tap arm indicates the correct position (ON).

7. Turn on the main switch to start the engine.

To use the electric starter, you must check the following:

- A. Verify that the neutral indicator light is on.
- B. Press the electric starter to start.

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

- * 1. Record the engine frame number in the owner's manual.
- * 2. Verify that all wheels have the correct pressure, specified on the wheel or in the owner's manual.
- * 3. Verify that the engine oil level is sufficient.
- * 4. Verify that the battery is installed correctly.
- * 5. Verify that all cables are correctly adjusted (brake, throttle, choke).
- * 6. Verify that the tank contains enough gasoline to operate.
- * 7. Verify the chain tension and the proper adjustment of the suspensions.
- * 8. Verify that all lights and electrical components are working properly.
- * 9. Ensure that the owner's manual and tool bag are installed to the left of the seat in the tool box.

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****PREPARATION INFORMATION****

****Caution:****

- * All washers, oil seals, clamps, and pins must be replaced with new items if disassembled.
- * Tighten all screws and nuts diagonally, starting with the larger screws towards the smaller ones, and from the inside to the outside in opposite corners, according to the specified torque values.
- * All items must be original parts, clean oil and grease.

- * All service should be done with special tools and general mechanical tools.
- * All items disassembled and required for checks must be cleaned. In addition, all these items must be properly lubricated before being assembled.

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****PREPARATION INFORMATION****

****Caution:****

- * Certified lubricants will be used on all elements to be lubricated.
- * After assembly, the operation of all elements will be properly verified, and the absence of any blockages will also be inspected.
- * If the operation is performed by more than 2 people, the task will be conducted with coordination, and safety will be the first priority.
- * Definition of signs: The signs given in the technical repair service manual relate to the methods and observation of the different operations.

****Oil:**** Lubrication with the designated lubricant.

****Grease:**** Lubrication with grease.

****Special Tools:**** Parts requiring special tools.

****General Tools:**** General tools must be used.

****New:**** Replace the item after disassembly.

****Attention:**** Dangerous and important operations. Extremely important and dangerous operations.

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****PREPARATION INFORMATION****

****UTILITY SPECIFICATIONS****

TYPE ATV-300U (92/61)

LENGTH 1800 mm

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WIDTH 1030 mm
HEIGHT 930 mm
SEAT HEIGHT 800 mm
WHEELBASE 1150 mm
DRY WEIGHT 200 kg
ENGINE TYPE 4-Stroke, single cylinder
COOLING Air-cooled
DISPLACEMENT 282 cc
BORE x STROKE Ø 74 x 65.5 mm
TRANSMISSION Manual, 5 speeds
First 0.095 Second 0.139 Third 0.190 Fourth 0.242 Fifth 0.299 Reverse 0.065
CLUTCH TYPE Lubricated, Multi-disc
ENGINE OIL (Drain) 10 W / 40 (Standard), 2.0 Liters
IDLE SPEED 1400±100 rpm
VALVE CLEARANCE 0.08 - 0.12 mm
STARTING Electric start 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 automatic adjustment of shocks with adjustable pre-load springs.
Rear: Swingarm with adjustment
BRAKING Front: Dual Disc, Rear: Disc Brake
BATTERY 8 Amps / h, maintenance free
FINAL DRIVE Chain
FRONT TIRE 21x7-10 (Optional 22x8-10)
REAR TIRE 21x10-8 (Optional 22x11-10)
FRONT LOAD 30 kg
REAR LOAD 45 kg

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****PREPARATION INFORMATION****

****SPORT SPECIFICATIONS****

TYPE ATV-300S (92/61)
LENGTH 1740 mm
WIDTH 1050 mm
HEIGHT 1080 mm
SEAT HEIGHT 820 mm
WHEELBASE 1150 mm
DRY WEIGHT 190 kg
ENGINE TYPE 4-Stroke, single cylinder

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COOLING Air-cooled

DISPLACEMENT 282 cc

BORE X STROKE Ø 74 x 65.5 mm

TRANSMISSION Manual, 5 speeds

First 0.095 Second 0.139 Third 0.190 Fourth 0.242 Fifth 0.299 Reverse 0.065

CLUTCH TYPE Lubricated, Multi-disc

ENGINE OIL (Drain) 10 W / 40 (Standard), 1.6 Liters

IDLE SPEED 1400±100 rpm

VALVE CLEARANCE 0.08 - 0.12 mm

STARTING Electric start and pulsion

SPARK PLUG NGK DR8EA

SPARK PLUG GAP 0.6~0.7 mm

IGNITION C.D.I

SUSPENSION Front: Double A-Arm with automatic adjustment of shocks with adjustable pre-load springs. Rear: Swingarm with adjustment

BRAKING Front: Dual Disc, Rear: Disc

BATTERY 8 Amps / h, maintenance free

FINAL DRIVE Chain

FRONT TIRE 21x7-10 (Optional 22x8-10)

REAR TIRE 21x10- 8 (Optional 22x11-10)

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PREPARATION INFORMATION

****TORQUE SPECIFICATIONS:**** The standard torque will apply if there are no specifications

****STANDARD TORQUE:****

Type	Torque (kg-m)	Type	Torque (kg-m)
5 mm Bolt, Nut	0.5	5 mm Screw	0.4
6 mm Bolt, Nut	1.0	6 mm Screw	0.9
8 mm Bolt, Nut	2.2	6 mm Shoulder Bolt, Nut	1.2
10 mm Bolt, Nut	3.5	7 mm Shoulder Bolt, Nut	2.1
12 mm Bolt, Nut	5.5	8 mm Shoulder Bolt, Nut	2.7
18 mm Bolt, Nut	15.0	10 mm Shoulder Bolt, Nut	4.0
18 mm Fixed Nut	11.0		

****CHASSIS:****

Location	Quantity	Diameter (mm)	Torque (kg-m)	Remarks
Handlebar Fixing Nut	2	10	4.0	Nylon Insert
Ball Joint Fixing Nut	4	10	4.0	Nylon Insert

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Engine Support Nut	4	8	3.5		
Engine Fixing Nut	2	10	4.0		
Footrest Nut	6	8	4.0		
Swingarm Fixed Nut	1	14	9	Nylon Insert	
Rear Brake Plate Bolt	4	12	7		
Front Suspension Bolt	4	10	4.0	Nylon Insert	
Rear Suspension Bolt	2	10	4.0		
Nut of					