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> AV Steel 2.5 Ton (5500 lbs) Low Profile Floor Jack Instruction Manual Model AV-250102F

AV Steel AV-250102F

AV Steel 2.5 Ton Low Profile Floor Jack Instruction Manual

Model: AV-250102F

INTRODUCTION

This manual provides essential instructions for the safe and effective use, maintenance, and troubleshooting of your AV Steel 2.5 Ton Low Profile Floor Jack. Please read and understand all instructions and safety warnings before operating this equipment. Proper use ensures optimal performance and user safety.

IMPORTANT SAFETY INFORMATION

Failure to follow these safety instructions may result in property damage, personal injury, or death. Always prioritize safety when using lifting equipment.

- **Always use jack stands:** Never work under a vehicle supported only by a floor jack. Immediately after lifting, support the vehicle with appropriately rated jack stands.
- **Do not exceed rated capacity:** This jack has a maximum lifting capacity of 2.5 tons (5500 lbs). Do not attempt to lift loads exceeding this limit.
- **Ensure stable surface:** Operate the jack only on a hard, level, and stable surface capable of supporting the load. Avoid soft ground or uneven surfaces.
- **Center the load:** Position the jack saddle directly under the vehicle's designated lifting points. Ensure the load is centered and stable on the saddle before lifting.
- **Vehicle preparation:** Before lifting, ensure the vehicle is in park (or gear for manual transmission), the parking brake is engaged, and the wheels not being lifted are chocked.
- **Keep clear:** Keep hands, feet, and other body parts clear of moving parts and the area under the vehicle during lifting and lowering operations.
- **Overload protection:** The integrated safety valve prevents lifting beyond the rated capacity. Do not attempt to bypass or modify this safety feature.
- **Inspect before use:** Before each use, inspect the jack for any signs of damage, leaks, or wear. Do not use if damaged.

PRODUCT OVERVIEW

The AV Steel 2.5 Ton Low Profile Floor Jack is a heavy-duty hydraulic lifting tool designed for automotive use. It features a robust alloy steel construction and a low-profile design for accessing vehicles with minimal ground clearance.

Key Features:

- **Capacity:** 2.5 tons (5500 lbs)
- **Lifting Range:** 3.4 inches (minimum) to 14.6 inches (maximum)
- **Low Profile Design:** Allows access under vehicles with low ground clearance.
- **Single Piston Quick Pump:** Provides efficient and rapid lifting.
- **360° Rotating Saddle:** Enhances stability and adaptability to various lifting points.
- **360° Swivel Casters:** Facilitate easy positioning and maneuverability.
- **Overload Protection:** Built-in safety valve prevents lifting beyond rated capacity.
- **Material:** Durable Alloy Steel construction.

Components:

Familiarize yourself with the main components of your floor jack:

- Lifting Arm
- Saddle (with 360° rotation)
- Handle Socket
- Operating Handle
- Release Valve (controlled by handle)
- Hydraulic Pump Assembly
- Front Wheels
- Rear Swivel Casters



Image: Overall view of the AV Steel 2.5 Ton Low Profile Floor Jack, showcasing its black and orange design and main components.



Image: Diagram illustrating the 2.5 ton (5500 lbs) load capacity and the lifting range from 3.4 inches (8.57 cm) minimum to 14.6 inches (37.5 cm) maximum height.

Product Specification

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Image: Detailed product specification diagram showing the dimensions of the floor jack, including handle length (46cm/18.1"), width (22cm/8.7"), and overall length (56cm/22.04").



◆ **Single piston pump**

Image: Close-up view of the single piston pump mechanism, highlighting its robust construction for efficient hydraulic operation.

Easy Maneuverability

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Image: Illustration of the jack's maneuverability features, including 360° swivel casters for easy movement and a 360° rotation head on the saddle for flexible positioning.

SETUP

1. **Unpacking:** Carefully remove the floor jack and all components from the packaging. Inspect for any shipping damage.
2. **Handle Assembly:**
 - Insert the lower part of the operating handle into the handle socket on the jack.
 - Align the pin on the handle with the slot in the socket and secure it.
 - Ensure the handle is firmly seated and the release valve mechanism is properly engaged.
3. **Bleeding the Hydraulic System (if necessary):** Although often not required for new units, if the jack does not lift smoothly or reaches full height, air may be trapped in the hydraulic system.
 - Turn the handle counter-clockwise to fully open the release valve.
 - Pump the handle up and down vigorously 10-15 times without a load.
 - Turn the handle clockwise to close the release valve. Test the jack. Repeat if necessary.

OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your floor jack.

Lifting a Vehicle:

1. **Prepare the Vehicle:** Park the vehicle on a hard, level surface. Engage the parking brake. For manual transmissions, place the vehicle in gear. Chock the wheels that will remain on the ground to prevent accidental movement.
2. **Position the Jack:** Locate the vehicle manufacturer's recommended lifting points. Position the floor jack so that the saddle is directly under the designated lifting point. Ensure the jack is stable and not obstructed.
3. **Lift the Vehicle:** Turn the operating handle clockwise until the release valve is fully closed. Pump the handle up and down to raise the saddle and lift the vehicle to the desired height. Lift only high enough to place jack stands.
4. **Secure with Jack Stands:** Immediately place appropriately rated jack stands under the vehicle's designated support points. Slowly lower the vehicle onto the jack stands by gradually turning the operating handle counter-clockwise to open the release valve. Once the vehicle is securely resting on the jack stands, remove the floor jack.

Lowering a Vehicle:

1. **Raise Slightly:** If the vehicle is on jack stands, position the floor jack under the lifting point again and raise the vehicle slightly to relieve pressure on the jack stands.
2. **Remove Jack Stands:** Carefully remove the jack stands from under the vehicle.
3. **Lower Vehicle:** Slowly turn the operating handle counter-clockwise to gradually open the release valve. The vehicle will begin to lower. Control the lowering speed by adjusting how much you open the valve. Once the vehicle is fully lowered, remove the floor jack.

USE RIGHT

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Step 1

Clamp one end of the bayonet of the handle to the oil return valve and tighten it clockwise



Step 2

Properly connect the handle to the hatchback and rotate clockwise to the right to lock first



Step 3

Pump the handle up and down until desired height



Step 4

After use, loosen the oil return valve about half a circle counterclockwise and the saddle can be lowered

Image: Step-by-step visual guide for using the floor jack. Step 1: Clamp handle to oil return valve and tighten clockwise. Step 2: Connect handle to hatchback and rotate clockwise to lock. Step 3: Pump handle to desired height. Step 4: Loosen oil return valve counter-clockwise to lower.

Extra low profile for general or specialty use

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Image: Demonstrates the versatile application of the low-profile floor jack for various vehicle types including cars, mini RVs, SUVs, and light trucks, highlighting its extra low profile design.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your floor jack.

- **Lubrication:** Periodically lubricate all moving parts, including the pivot points, wheels, and handle mechanism, with light machine oil.
- **Hydraulic Fluid:** Check the hydraulic fluid level regularly. If low, replenish with a high-quality hydraulic jack oil. Do not use brake fluid or other non-approved fluids. Consult the manufacturer for specific fluid recommendations.
- **Inspection:** Before each use, inspect the jack for any signs of damage, cracks, bends, or leaks. Pay close attention to welds, the lifting arm, saddle, and hydraulic cylinder. Do not use a damaged jack.
- **Cleaning:** Keep the jack clean and free of dirt, grease, and debris. This helps prevent contamination of the hydraulic system and ensures smooth operation.
- **Storage:** Store the jack in a clean, dry place, fully lowered, to protect it from corrosion and damage.

TROUBLESHOOTING

Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Jack will not lift load.	Release valve open; Low hydraulic fluid; Air in system; Overload.	Ensure release valve is fully closed; Check and replenish fluid; Bleed air from system (see Setup); Do not exceed rated capacity.
Jack lifts slowly or erratically.	Low hydraulic fluid; Air in system; Contaminated fluid.	Check and replenish fluid; Bleed air from system; Replace fluid if contaminated (consult professional).
Jack will not hold load / creeps down.	Release valve not fully closed; Internal seal leakage; Overload.	Ensure release valve is fully closed; Do not use if internal leakage is suspected (consult professional); Do not exceed rated capacity.
Jack lowers too quickly.	Release valve opened too far.	Control lowering speed by slowly and gradually opening the release valve.

If problems persist after attempting these solutions, discontinue use and contact customer service or a qualified technician.

SPECIFICATIONS

Specification	Value
Model Number	AV-250102F
Capacity	2.5 Tons (5500 lbs)
Minimum Lifting Height	3.4 inches (8.57 cm)
Maximum Lifting Height	14.6 inches (37.5 cm)
Material	Alloy Steel
Product Dimensions (L x W x H)	59.39 x 23.39 x 15.9 cm (23.38 x 9.21 x 6.26 inches)
Item Weight	13.6 kg (30 lbs)
Vehicle Service Type	Car, Truck

WARRANTY AND SUPPORT

AV Steel provides a full **12-month warranty** against design, materials, and workmanship defects from the date of purchase. This warranty covers manufacturing faults under normal use conditions.

For warranty claims, technical assistance, or any questions regarding your AV Steel 2.5 Ton Low Profile Floor Jack, please contact our customer service team. We offer **24/7 customer service** for your peace of mind.

Please retain your proof of purchase for warranty validation.