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uflex HYTECH 1.0

Uflex HYTECH 1.0 Hydraulic Outboard Steering Kit

Model: HYTECH 1.0 | Brand: Uflex

PRODUCT OVERVIEW

The Uflex HYTECH 1.0 Hydraulic Outboard Steering Kit is designed to provide an easy and affordable hydraulic steering solution for boats equipped with 150 horsepower engines and under. Its unique split tilt tube rod allows for straightforward installation of the UC94 cylinder without requiring engine removal. Coupled with the composite UP20 helm, this system ensures effortless steering with approximately five turns lock to lock, making it compatible with most two- and four-stroke outboard engines.



This image displays the complete Uflex HYTECH 1.0 Hydraulic Outboard Steering Kit. Visible components include the black UP20 helm unit, the UC94 cylinder, two bottles of Marine Hydraulic Steering Fluid (OIL 15), and a coil of black hydraulic tubing. The kit is presented in front of its packaging box, which highlights key features such as 'Split Tilt Tube Rod for Easy Installation' and 'Heavy Duty Seals for Maximum Longevity'.

KEY FEATURES

- **Maximum Horsepower:** Rated for engines up to 150hp.
- **Helm Type:** UP20 F Front mount.
- **Turns Lock-to-Lock:** Approximately 5 turns for full steering range.
- **Installation:** Features a unique split tilt tube rod for easy installation of the UC94 cylinder without engine removal.
- **Compatibility:** Applicable to almost all two- and four-stroke outboard engines.
- **Included Components:** UP20 helm, UC94 cylinder, two quarts of OIL 15 hydraulic fluid, and 40 feet of cut-to-length tubing.

COMPONENTS INCLUDED

The Uflex HYTECH 1.0 Hydraulic Outboard Steering Kit typically includes the following items:

- UP20 Helm Unit
- UC94 Cylinder
- 2 Quarts of OIL 15 Marine Hydraulic Steering Fluid
- 40 feet of Cut-to-Length Tubing
- Installation Hardware (as required for standard setup)

Note: Steering wheel is sold separately.

SETUP AND INSTALLATION

Installation of the Uflex HYTECH 1.0 steering system should ideally be performed by a qualified marine technician to ensure proper function and safety. The unique split tilt tube rod design simplifies the process, allowing the UC94 cylinder to be installed without the need to remove the engine.

General Steps:

1. **Mount the Helm:** Securely mount the UP20 F front mount helm in the desired steering position.
2. **Install the Cylinder:** Attach the UC94 cylinder to the outboard engine using the split tilt tube rod system. Ensure all connections are tight and secure.
3. **Route Tubing:** Cut the provided tubing to the appropriate lengths and route them from the helm to the cylinder. Avoid sharp bends and ensure tubing is protected from abrasion.
4. **Connect Hoses:** Connect the hydraulic hoses to the helm and cylinder fittings. Use appropriate tools to tighten connections, preventing leaks.
5. **Fill and Bleed System:** Fill the system with the provided OIL 15 hydraulic fluid. Carefully follow the bleeding procedure to remove all air from the system, ensuring smooth and responsive steering. Refer to the detailed installation guide provided with the product for specific bleeding instructions.
6. **Check for Leaks:** After filling and bleeding, thoroughly inspect all connections for any signs of leaks.
7. **Test Operation:** With the engine off, turn the steering wheel lock-to-lock several times to confirm smooth operation and full range of motion.

Always consult the detailed installation manual included with your kit for specific instructions, diagrams, and safety warnings.

OPERATING INSTRUCTIONS

The Uflex HYTECH 1.0 hydraulic steering system is designed for intuitive and effortless operation. Once properly installed and bled, the system provides smooth control of your outboard engine.

- **Steering Control:** Turn the steering wheel clockwise to steer the boat to starboard (right) and counter-clockwise to steer to port (left). The system offers approximately five turns from full lock to full lock.
- **Smooth Operation:** The hydraulic nature of the system provides a consistent and smooth feel, reducing steering effort, especially at higher speeds or during maneuvering.
- **Engine Trim/Tilt:** Ensure your engine's trim and tilt functions are not obstructed by the steering cylinder or hoses during full range of motion.

Always operate your vessel responsibly and in accordance with all local and national boating regulations.

MAINTENANCE

Regular maintenance is crucial to ensure the longevity and reliable performance of your Uflex HYTECH 1.0 hydraulic steering system.

- **Fluid Level Check:** Periodically check the hydraulic fluid level in the helm reservoir. Top up with Uflex OIL 15 Marine Hydraulic Steering Fluid if necessary. Do not overfill.
- **Inspect for Leaks:** Regularly inspect all hydraulic hose connections, the helm, and the cylinder for any signs of fluid leaks. Address any leaks immediately to prevent system failure and environmental contamination.
- **Cylinder Rod Inspection:** Check the cylinder rod for corrosion, pitting, or damage. Keep the rod clean to prevent seal wear.
- **Hose Condition:** Examine hydraulic hoses for cracks, chafing, or kinks. Replace damaged hoses promptly.
- **Mounting Hardware:** Ensure all mounting bolts for the helm and cylinder are secure and tightened to the manufacturer's specifications.
- **Bleeding:** If steering feels spongy or unresponsive, the system may have air. Re-bleed the system according to the installation manual.

For any major repairs or if you are unsure about a maintenance procedure, it is recommended to consult a certified marine technician.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your hydraulic steering system.

Problem	Possible Cause	Solution
Spongy or Loose Steering	Air in the hydraulic system; Low fluid level.	Bleed the hydraulic system thoroughly; Check and top up fluid level with OIL 15.
Fluid Leaks	Loose fittings; Damaged hoses or seals.	Tighten all connections; Inspect hoses and seals for damage and replace if necessary.

Problem	Possible Cause	Solution
Steering is Stiff or Hard to Turn	Insufficient fluid; Air in system; Mechanical obstruction; Damaged cylinder or helm.	Check fluid level and bleed system; Inspect for any physical obstructions; Consult a technician for internal component issues.
No Steering Response	Severe fluid loss; Major component failure.	Immediately stop operation and inspect for major leaks. Do not operate until repaired by a qualified technician.

If you are unable to resolve an issue using these troubleshooting steps, please contact Uflex customer support or a certified marine service center.

SPECIFICATIONS

Attribute	Detail
Model Number	HYTECH 1.0
Maximum Horsepower	150hp
Helm Type	UP20 F Front mount
Turns Lock-to-Lock	5
Steering Wheel Shaft	3/4" tapered
Item Weight	28 pounds
Product Dimensions	7 x 15 x 29 inches
Manufacturer Part Number	HYTECH 1.0
OEM Part Number	UFXHYTECH10
ASIN	B009GLWHUU

WARRANTY AND SUPPORT

Uflex products are manufactured to high standards and are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official Uflex website.

For technical support, replacement parts, or service inquiries, please contact Uflex customer service. You can typically find contact information on the product packaging or on the manufacturer's official website:

www.uflexusa.com

When contacting support, please have your product model number (HYTECH 1.0) and ASIN (B009GLWHUU) ready.

