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Hobart 500554001

Hobart Handler 190 with SpoolRunner 100 Welder Instruction Manual

Model: 500554001

1. Introduction

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your Hobart Handler 190 Wire Feed Welder, including the SpoolRunner 100. The Handler 190 is a versatile 230V MIG and flux-cored welder designed for welding mild steel, aluminum, and stainless steel, suitable for various applications from automotive repair to farm projects.

2. Safety Information

Always prioritize safety when operating welding equipment. Failure to follow safety precautions can result in serious injury or death. Refer to the complete safety guidelines provided in your owner's manual.

- **Electric Shock:** Can kill. Do not touch live electrical parts. Wear dry gloves and protective clothing.
- **Fumes and Gases:** Can be hazardous. Keep your head out of the fumes. Use ventilation or exhaust to remove fumes from the breathing zone.
- **Arc Rays:** Can burn eyes and skin. Wear a welding helmet with a proper shade filter and protective clothing.
- **Fire and Explosion:** Welding can cause fire or explosion. Keep combustibles away from the welding area. Have a fire extinguisher readily available.
- **Hot Parts:** Can cause severe burns. Allow equipment to cool before touching.

3. Product Overview

The Hobart Handler 190 is a robust wire-feed welder offering industrial performance for various welding tasks. It operates on 230V power and provides an output amperage range of 25 to 190 amps.

Image 3.1: The Hobart Handler 190 Welder shown with its complete set of accessories, including the MIG gun, gas regulator, work clamp, and sample wire spool.

Key Features:

- Welds 24 gauge to 5/16 inch steel in a single pass.
- 7 voltage selections for precise control.
- Infinite wire feed speed control for optimal arc performance.
- 30% duty cycle at 130 Amps.
- Spool gun ready for aluminum welding with the included SpoolRunner 100.
- Durable wire feed cast aluminum drive system.

Image 3.2: Close-up of the Handler 190 front panel, displaying the wire feed speed control, voltage selector, and power switch.

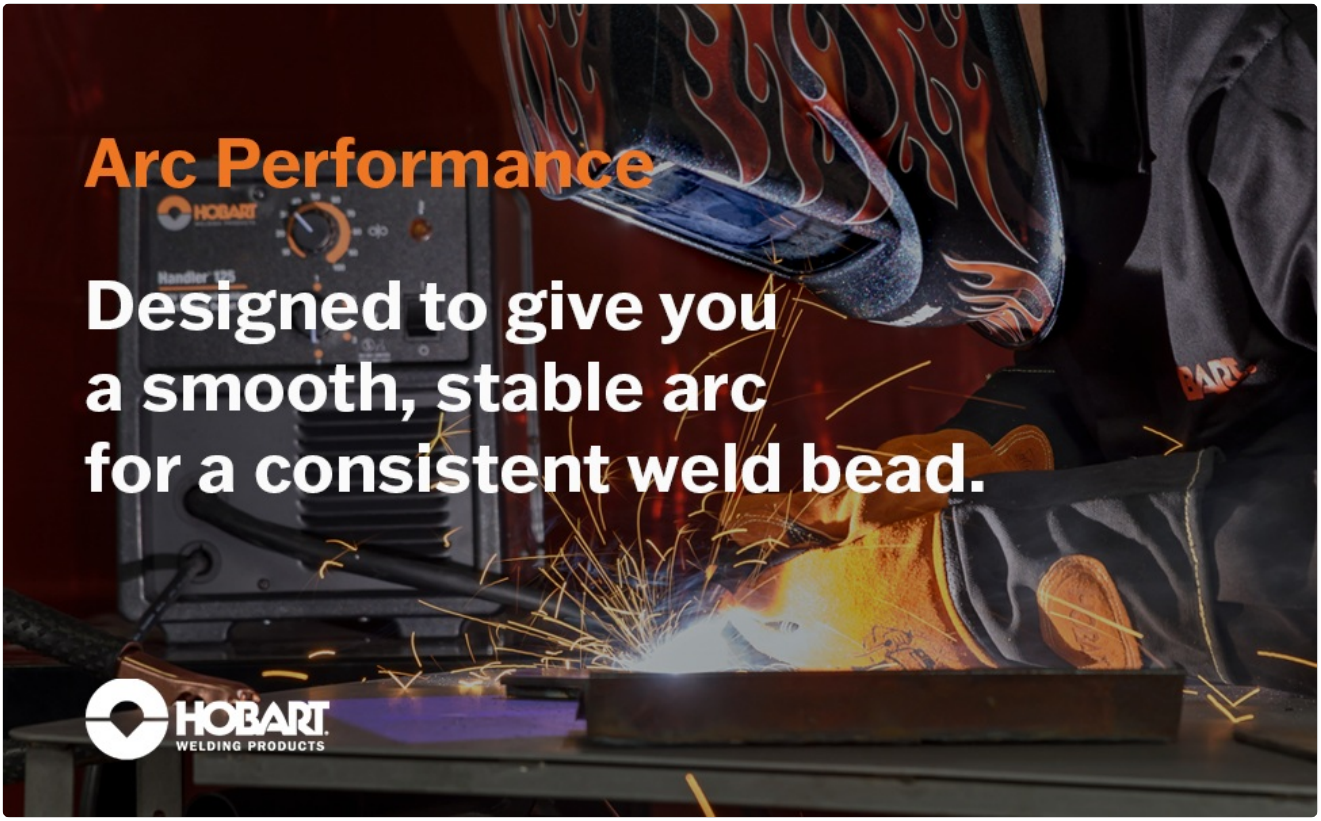

Image 3.3: Visual representation of the Handler 190's arc performance, designed for smooth and stable welding.

4. Setup

Proper setup is crucial for safe and effective welding. Ensure the welder is placed on a stable, level surface with adequate ventilation.

4.1 Unpacking and Inspection

Carefully remove all components from the packaging. Inspect for any shipping damage. The package includes:

- Handler 190 with built-in gas valve
- 10 ft. MIG gun (H100S4-10)
- Dual gauge regulator & gas hose
- 10 ft. work cable & clamp
- 10 ft. power cord with plug
- Extra .030 contact tips
- Sample spool of .030 flux-cored wire
- 8-inch spool adapter
- Owner's manual and set-up guide
- SpoolRunner 100 with 10 ft. cable in plastic case

4.2 Power Connection

Connect the 10 ft. power cord to a dedicated 230V AC power outlet. Ensure the circuit can handle the welder's power requirements.

4.3 Wire Spool Installation

Open the side panel of the welder. Install the appropriate wire spool (flux-cored or solid wire) onto the spool hub assembly. The unit accommodates 4 or 8-inch spools. Thread the wire through the drive roll mechanism.

Image 4.1: Detailed view of the wire feed mechanism, showing the drive roll and wire path for proper installation.

4.4 Gas Connection (for MIG welding)

For MIG welding, connect the gas hose from the dual gauge regulator to the built-in gas valve on the welder. Attach the regulator to your shielding gas cylinder (e.g., C25 for steel, 100% Argon for aluminum). Ensure all connections are tight to prevent leaks.

4.5 MIG Gun and Work Clamp Connection

Connect the 10 ft. MIG gun to the appropriate receptacle on the front panel. Attach the work cable and clamp to the work terminal. The work clamp must be securely attached to the workpiece to complete the electrical circuit.

4.6 SpoolRunner 100 Spool Gun Setup (for Aluminum Welding)

The Handler 190 is designed for direct plug-in of the SpoolRunner 100. Connect the SpoolRunner 100 to the dedicated port on the welder. A selector switch on the front panel allows you to switch between the standard MIG gun and the spool gun. No additional control box or adapter is required.

5. Operating Instructions

Before operating, ensure all safety precautions are understood and followed. Always wear appropriate personal protective equipment (PPE).

5.1 Initial Settings

Refer to the weld set-up guide located on the inside of the welder's cover. This guide provides recommended settings for different materials, thicknesses, and wire types. Adjust the voltage selector (1-7) and wire feed speed control knob according to the guide.

Image 5.1: A hand adjusting the wire feed speed and voltage settings on the Handler 190 control panel.

5.2 Welding Process (MIG/Flux-Cored)

1. Turn on the welder's power switch.
2. If using shielding gas, open the gas cylinder valve and adjust the flow rate on the regulator.
3. Position the MIG gun or SpoolRunner 100 over the workpiece.
4. Lower your welding helmet.
5. Press the trigger on the gun to initiate the arc and begin welding. Maintain a consistent travel speed and gun angle.
6. Release the trigger to stop welding.
7. Allow the workpiece to cool before handling.

Image 5.2: An individual performing welding on a metal fence using the Hobart Handler 190, demonstrating its portability and application in various projects.

5.3 Welding Aluminum with SpoolRunner 100

When welding aluminum, use the SpoolRunner 100 spool gun and 100% Argon shielding gas. The spool gun is designed to prevent feeding problems commonly associated with soft aluminum wire. Select the spool gun operation via the front panel switch.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your welder.

- **Daily:** Clean the MIG gun nozzle and contact tip. Check for loose connections.
- **Weekly:** Inspect the drive rolls for wear and cleanliness. Clean the wire feed path.
- **Monthly:** Check the power cord and welding cables for damage. Clean the internal components with compressed air, ensuring the power is disconnected.
- **Periodically:** Replace worn contact tips, nozzles, and drive rolls as needed.

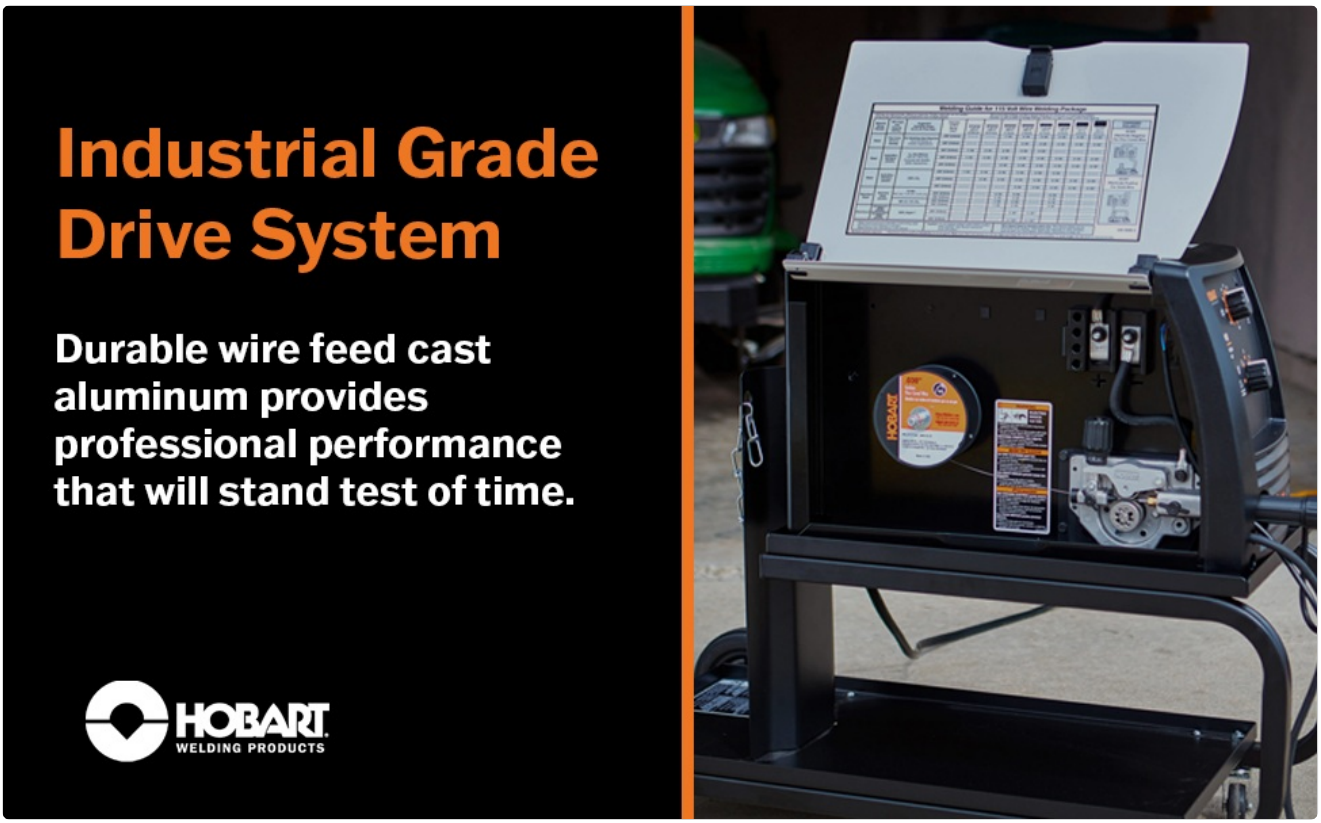

Image 6.1: Illustration of the durable wire feed cast aluminum drive system, highlighting its robust construction for consistent performance.

7. Troubleshooting

This section provides solutions to common issues. For more complex problems, consult the full owner's manual or contact customer support.

Problem	Possible Cause	Solution
No arc	No power, poor work clamp connection, incorrect gun connection.	Check power supply, ensure work clamp is on bare metal, verify gun connection.
Poor weld quality	Incorrect settings, contaminated material, improper gas flow.	Adjust voltage/wire speed, clean workpiece, check gas flow and type.
Wire feeding issues	Worn drive rolls, incorrect tension, tangled wire, wrong liner.	Inspect/clean drive rolls, adjust tension, untangle wire, ensure correct liner for wire size.

8. Specifications

Detailed technical specifications for the Hobart Handler 190 Welder.

Image 8.1: Official specifications graphic for the Handler 190, detailing material thickness, duty cycle, weldable materials, amperage range, and input voltage.

- **Model:** 500554001
- **Input Voltage:** 230V AC
- **Output Amperage:** 25 - 190 Amps
- **Duty Cycle:** 30% at 130 Amps
- **Weldable Materials:** Mild Steel, Stainless Steel, Aluminum
- **Material Thickness (Single Pass):** 24 ga. to 5/16 inch steel
- **Item Weight:** 89 pounds
- **Package Dimensions:** 29.5 x 18.5 x 13.7 inches

- **Power Source:** Corded Electric
- **Installation Method:** MIG Welding

9. Warranty and Support

Hobart provides a standard 5/3/1 industrial warranty for the Handler 190. This warranty covers different components for varying durations:

- **5 Years:** Main power rectifier, transformer, and other major components.
- **3 Years:** Drive systems, PC boards, and other electronic components.
- **1 Year:** MIG guns, SpoolRunner 100, and other accessories.

For detailed warranty information, technical assistance, or to purchase replacement parts, please refer to the official Hobart Welding Products website or contact their customer support.

Image 9.1: A graphic emphasizing Hobart's commitment to quality, stating products are designed and manufactured for quality and longevity.

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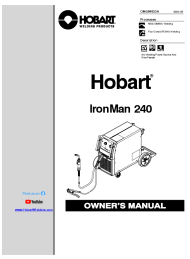
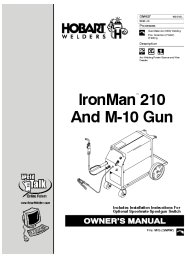
Related Documents - 500554001

	Hobart Handler 180 MIG Welder: Features, Specifications, and Accessories Detailed information on the Hobart Handler 180 230 VAC, Single-Phase Wire Welding Package, including features, benefits, specifications, performance data, and available accessories and consumables.
	Hobart Champion 145 Owner's Manual Comprehensive owner's manual for the Hobart Champion 145 Engine Driven Welder/Generator, covering safety, operation, specifications, and maintenance for Stick (SMAW) welding and AC power generation.
	Hobart BETA-MIG 2250 Owner's Manual - Welding Power Source and Wire Feeder Comprehensive owner's manual for the Hobart BETA-MIG 2250 arc welding power source and wire feeder, covering safety precautions, operation, maintenance, troubleshooting, specifications, and parts lists.
	Hobart IronMan 240 Owner's Manual Comprehensive owner's manual for the Hobart IronMan 240, covering safety precautions, installation, operation, maintenance, troubleshooting, and guidelines for MIG welding.
	Hobart IronMan 210 and M-10 Gun Owner's Manual Comprehensive owner's manual for the Hobart IronMan 210 and M-10 Gun welding power source and wire feeder. Covers installation, operation, safety precautions, maintenance, troubleshooting, and MIG/GMAW welding guidelines. Includes information on processes like Gas Metal Arc (MIG) Welding and Flux Cored Arc (FCAW) Welding.
	Hobart Champion 145 Engine Driven Welding Generator Owner's Manual This owner's manual provides comprehensive safety guidelines, operational instructions, specifications, maintenance procedures, and troubleshooting tips for the Hobart Champion 145 engine-driven welding generator. It is designed for users to ensure safe and effective operation.

[pdf] Specifications

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Handler 190 230-Volt Wire Feed Welder 251091 March 2020 230 V Spool Gun Ready Now with NEW HR-1 ... valve and dual-gauge regulator with gas hose .030 in. 0.8 mm contact tips 500554 machine only **500554001** with SpoolRunnerTM 100 Quick SelectTM drive roll for .024 in. 0.6 mm or .030/.035 in. ...

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[pdf] User Manual Owner's Manual Specifications

Layout 1 Graphics Handler 190 images na ssl amazon See owners manual for more information Wire speed listed is a starting value only setting can be fine tuned while welding also depends on other variables such as stick out travel weld angle cleanliness of metal etc Material Being Welded Steel Stainless A1bY21R5mzL I

Handler 190 230-Volt Wire Feed Welder 251091 February 2018 230 V Spool Gun Ready Quick Specs Weld ... valve and dual-gauge regulator with gas hose .030 in. 0.8 mm contact tips 500554 machine only **500554001** with SpoolRunnerTM 100 Quick SelectTM drive roll for .024 in. 0.6 mm or .030/.035 in. ...

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