

## YANMAR 128990-77580

# Genuine Yanmar 128990-77580 Serpentine Belt Instruction Manual

## 1. PRODUCT OVERVIEW

This manual provides essential information for the proper installation, maintenance, and troubleshooting of the Genuine Yanmar 128990-77580 Serpentine Belt. This belt is designed for specific Yanmar 3YM series diesel engines to ensure optimal performance and longevity.



Image 1.1: The Yanmar 128990-77580 Serpentine Belt as supplied in its genuine packaging, featuring the Yanmar branding and part number.

## 2. COMPATIBILITY

The Yanmar 128990-77580 Serpentine Belt is compatible with the following Yanmar engine models:

- **3YM30:** For engines with serial number E20848 and after.
- **3YM30AE:** All models.

Always verify your engine's model and serial number against this compatibility list before installation.

### 3. INSTALLATION GUIDELINES

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Proper installation is crucial for the serpentine belt's performance and lifespan. Always refer to your specific Yanmar engine service manual for detailed, model-specific instructions. The following are general guidelines:

1. **Safety First:** Ensure the engine is turned off, cooled, and the battery is disconnected before beginning any work.
2. **Identify Belt Routing:** Carefully note or sketch the existing belt's routing path around all pulleys.
3. **Relieve Tension:** Locate the automatic belt tensioner and use an appropriate tool to relieve tension, allowing the old belt to be removed.
4. **Remove Old Belt:** Once tension is relieved, carefully remove the old serpentine belt from all pulleys.
5. **Inspect Pulleys:** Check all pulleys for wear, damage, or excessive play. Replace any faulty pulleys. Ensure they are clean and free of debris.
6. **Install New Belt:** Route the new Yanmar 128990-77580 belt according to the diagram noted earlier. Ensure it is seated correctly in all pulley grooves.
7. **Apply Tension:** Release the tensioner slowly to apply proper tension to the new belt.
8. **Final Check:** Visually inspect the belt routing and ensure it is properly seated on all pulleys. Reconnect the battery.
9. **Test Run:** Start the engine and observe the belt's operation for any unusual noises, slipping, or misalignment.



Image 3.1: A side view of the serpentine belt, showing the multiple ribs designed for efficient power transfer across various engine accessories.

## 4. MAINTENANCE

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Regular inspection and maintenance of your serpentine belt are essential for preventing unexpected breakdowns and ensuring the reliable operation of your Yanmar engine. Perform these checks at recommended service intervals or if any unusual symptoms arise:

- **Visual Inspection:** Regularly inspect the belt for signs of wear, such as cracks, fraying, glazing, missing ribs, or oil contamination.
- **Tension Check:** Ensure the belt tension is correct. An automatic tensioner should maintain proper tension, but manual checks can confirm its function. Refer to your engine manual for specific tension specifications.
- **Pulley Alignment:** Check that all pulleys are properly aligned. Misalignment can cause premature belt wear.
- **Noise:** Listen for squealing or chirping noises, which can indicate a loose belt, worn tensioner, or misaligned pulleys.
- **Replacement:** Replace the belt if any significant wear or damage is observed, or according to the engine manufacturer's recommended service schedule, even if it appears to be in good condition.



Image 4.1: A top view of the serpentine belt, illustrating its continuous loop design and the ribbed surface that engages with engine pulleys.

## 5. TROUBLESHOOTING COMMON ISSUES

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If you experience issues related to your serpentine belt, consider the following common problems and their potential causes:

- **Squealing Noise:**

- **Cause:** Loose belt, worn tensioner, misaligned pulleys, or contaminated belt surface.
- **Action:** Check tension, inspect tensioner, verify pulley alignment, clean belt if contaminated.

- **Belt Slipping:**

- **Cause:** Insufficient tension, worn belt ribs, or oil/fluid contamination.
- **Action:** Check tensioner, inspect belt for wear, identify and fix fluid leaks.

- **Cracked or Frayed Belt:**

- **Cause:** Age, heat exposure, excessive tension, or contact with sharp edges.
- **Action:** Replace the belt immediately. Inspect pulleys and routing for issues.

- **Belt Comes Off Pulleys:**

- **Cause:** Misaligned pulleys, worn tensioner, or incorrect belt length.
- **Action:** Verify pulley alignment, check tensioner function, ensure correct belt part number.

If troubleshooting steps do not resolve the issue, consult a qualified Yanmar service technician.

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## 6. PRODUCT SPECIFICATIONS

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Specification	Detail
Part Number	128990-77580
Brand	YANMAR
Belt Style	Serpentine
Compatible Devices	Yanmar 3YM30 (E20848+), Yanmar 3YM30AE
Item Weight	0.23 Pounds (approx. 3.68 ounces)
Manufacturer	Yanmar
Date First Available	August 29, 2022

## 7. WARRANTY INFORMATION

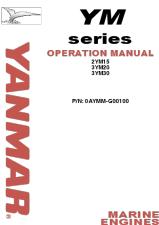
This Genuine Yanmar 128990-77580 Serpentine Belt comes with a **6-month manufacturer warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for any warranty claims. For full details regarding warranty terms and conditions, please refer to the official Yanmar warranty documentation or contact Yanmar customer support.

## 8. CUSTOMER SUPPORT

For further assistance, technical support, or to inquire about genuine Yanmar parts and service, please contact your authorized Yanmar dealer or visit the official Yanmar website. When contacting support, please have your engine model, serial number, and the belt part number (128990-77580) readily available.

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### Related Documents - 128990-77580

	<p><a href="#">Yanmar YM Series Operation Manual: 2YM15, 3YM20, 3YM30 Marine Engines</a>  Comprehensive operation manual for Yanmar YM series marine diesel engines (2YM15, 3YM20, 3YM30), covering operation, maintenance, safety, and specifications for optimal performance and longevity.</p>
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