



98-20, *Publication Date: SEPTEMBER 29, 1998*

<ul style="list-style-type: none"><li>• <b>Exhaust System - Loose Catalyst Or Muffler Heat Shields</b></li><li>• <b>Noise - "Buzzing" Or "Rattling" - Loose Catalyst Or Muffler Heat Shields</b></li></ul>	<b>Article No. 98-20-10</b>
--	---------------------------------

**FORD:**

1993 FESTIVA  
1993-94 TEMPO  
1993-97 PROBE, THUNDERBIRD  
1993-99 CROWN VICTORIA, ESCORT, MUSTANG, TAURUS  
1994-97 ASPIRE  
1995-99 CONTOUR

**LINCOLN-MERCURY:**

1993-94 CAPRI, TOPAZ  
1993-99 CONTINENTAL, COUGAR, GRAND MARQUIS, SABLE, TOWN CAR, TRACER  
1995-99 MYSTIQUE

**LIGHT TRUCK:**

1993-96 BRONCO  
1993-97 F SUPER DUTY, F-350  
1993-99 AEROSTAR, ECONOLINE, EXPLORER, F-150, F-250 LD, RANGER  
1995-99 WINDSTAR  
1997-99 EXPEDITION, MOUNTAINEER, VILLAGER  
1998-99 NAVIGATOR  
1999 F-250 HD, SUPER DUTY F SERIES

This TSB article is being republished in its entirety to include additional vehicles and to include 1999 model year vehicles.

**ISSUE:**

A "buzzing" or "rattling" noise from the exhaust system may be caused by a loose heat shield attachment to the catalytic converter, catalytic pipes, muffler pipes and/or muffler. The noise is noticeable during normal driving conditions or at engine idle.

**ACTION:**

Install worm clamps to secure loose heat shield attachments. Refer to the following Service Procedure for details.

**SERVICE PROCEDURE**

1. Inspect for loose shields. If shield(s) is missing, this TSB does not apply. Refer to the appropriate Service or Workshop Manual for repair procedures .

**NOTE:**

UNDER NO CIRCUMSTANCES SHOULD A HEAT SHIELD BE REMOVED WITHOUT REPLACEMENT BEFORE THE VEHICLE IS RETURNED TO THE CUSTOMER.

2. Install worm clamps to the catalytic converter, catalytic pipes, muffler pipes or muffler as shown in Figure 1 for the typical light truck and Figure 2 for the typical passenger car.

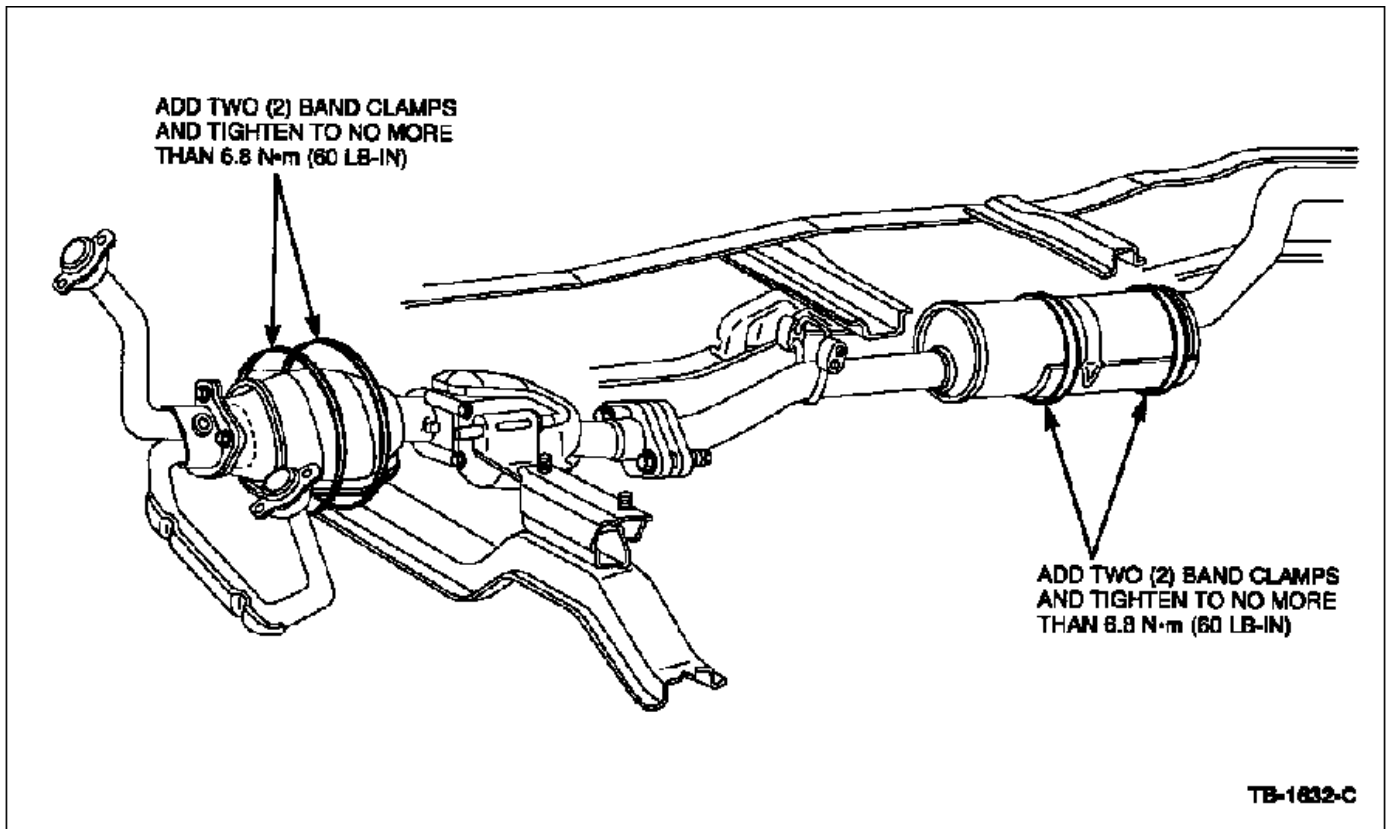


Figure 1 - Article 98-20-10

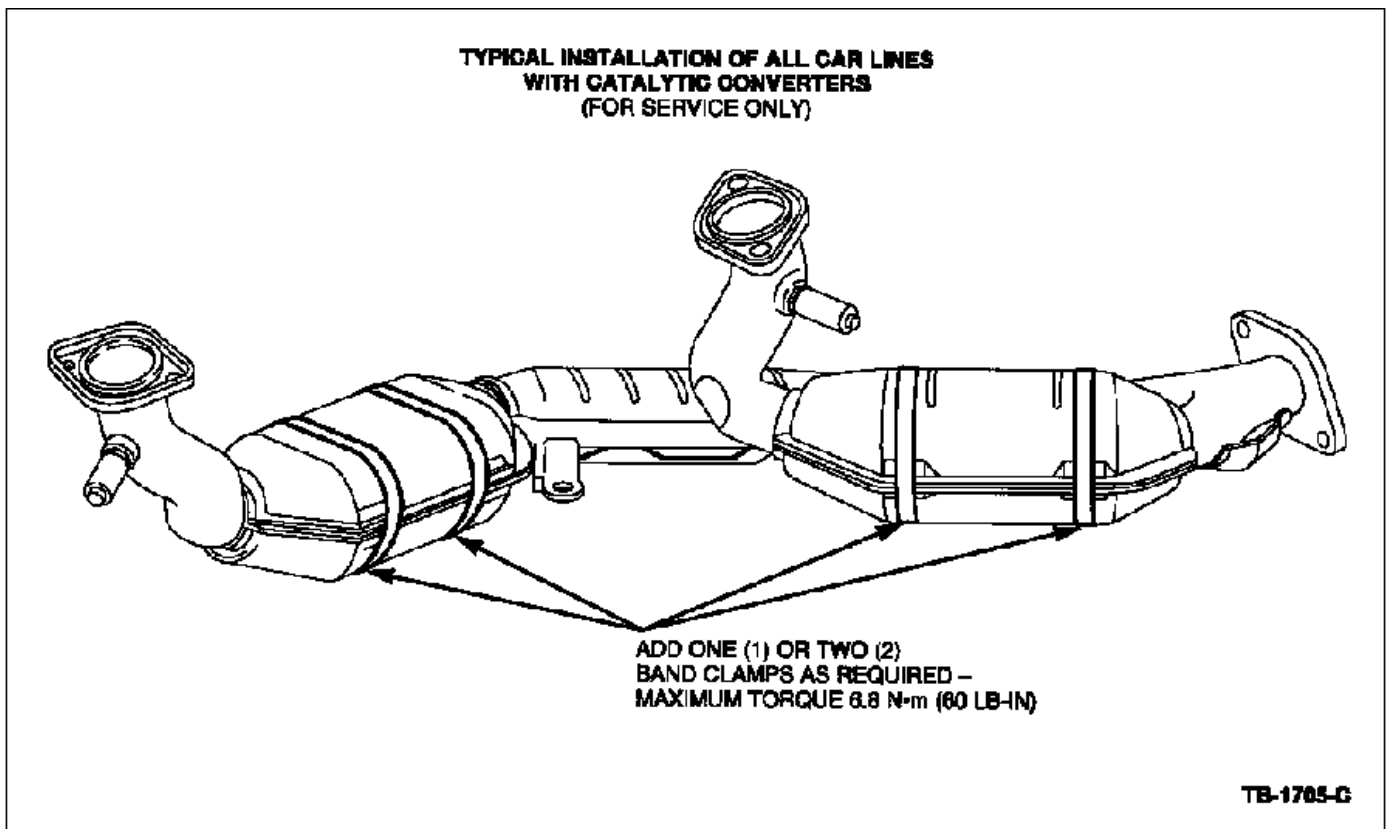


Figure 2 - Article 98-20-10

3. Align the clamps to secure the heat shield to the catalytic converter, catalytic pipes, muffler pipes or

muffler as required.

4. Tighten the clamps to 6.8 N-m (60 lb-in).
5. Trim the excess "ear" of the clamp to approximately 2.54 cm (1").

PART NUMBER	PART NAME
FOTZ-5A231-A	Worm Clamp (4-1/2" To 9-1/2")
W705949-S300	Worm Clamp (3/4" To 4")

**OTHER APPLICABLE ARTICLES:** NONE

**SUPERSEDES:** 98-6-4

**WARRANTY STATUS:** Eligible Under Basic Warranty Coverage For 1991 And Prior Models, Bumper To Bumper Warranty Coverage For 1992-99 Models, And Any Applicable Emissions Warranty Coverage

**LABOR ALLOWANCE**

OPERATION	DESCRIPTION	TIME
982010A	Install One (1), Two (2), Or Four (4) Worm Clamps	0.3 Hr.

**DEALER CODING**

BASIC PART NO.	CONDITION CODE
5E258	33

**OASIS CODES:** 403000, 702000, 702100, 702200, 703000

---