

- **EXHAUST SYSTEM—LOOSE CATALYST OR MUFFLER HEAT SHIELDS**
- **NOISE—“BUZZING” OR “RATTLING”—LOOSE CATALYST OR MUFFLER HEAT SHIELDS**

**Article No.  
98-20-10**

**FORD:** 1993 FESTIVA  
 1993-1994 TEMPO  
 1993-1997 PROBE, THUNDERBIRD  
 1993-1999 CROWN VICTORIA, ESCORT, MUSTANG, TAURUS  
 1994-1997 ASPIRE  
 1995-1999 CONTOUR  
 1993-1996 BRONCO  
 1993-1997 AEROSTAR, F SUPER DUTY, F-350  
 1993-1999 ECONOLINE, EXPLORER, F-150, F-250 LD, RANGER  
 1995-1999 WINDSTAR  
 1997-1999 EXPEDITION  
 1999 F-250 HD, SUPER DUTY F SERIES

**LINCOLN:** 1993-1999 CONTINENTAL, TOWN CAR  
 1998-1999 NAVIGATOR

**MERCURY:** 1993-1994 CAPRI, TOPAZ  
 1993-1997 COUGAR  
 1993-1999 GRAND MARQUIS, SABLE, TRACER  
 1995-1999 MYSTIQUE  
 1999 COUGAR  
 1997-1999 MOUNTAINEER, VILLAGER

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.
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”).

# Article No. 98-20-10 Cont'd.

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

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

**DEALER CODING**

BASIC PART NO.  
5E258

CONDITION  
CODE  
33

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

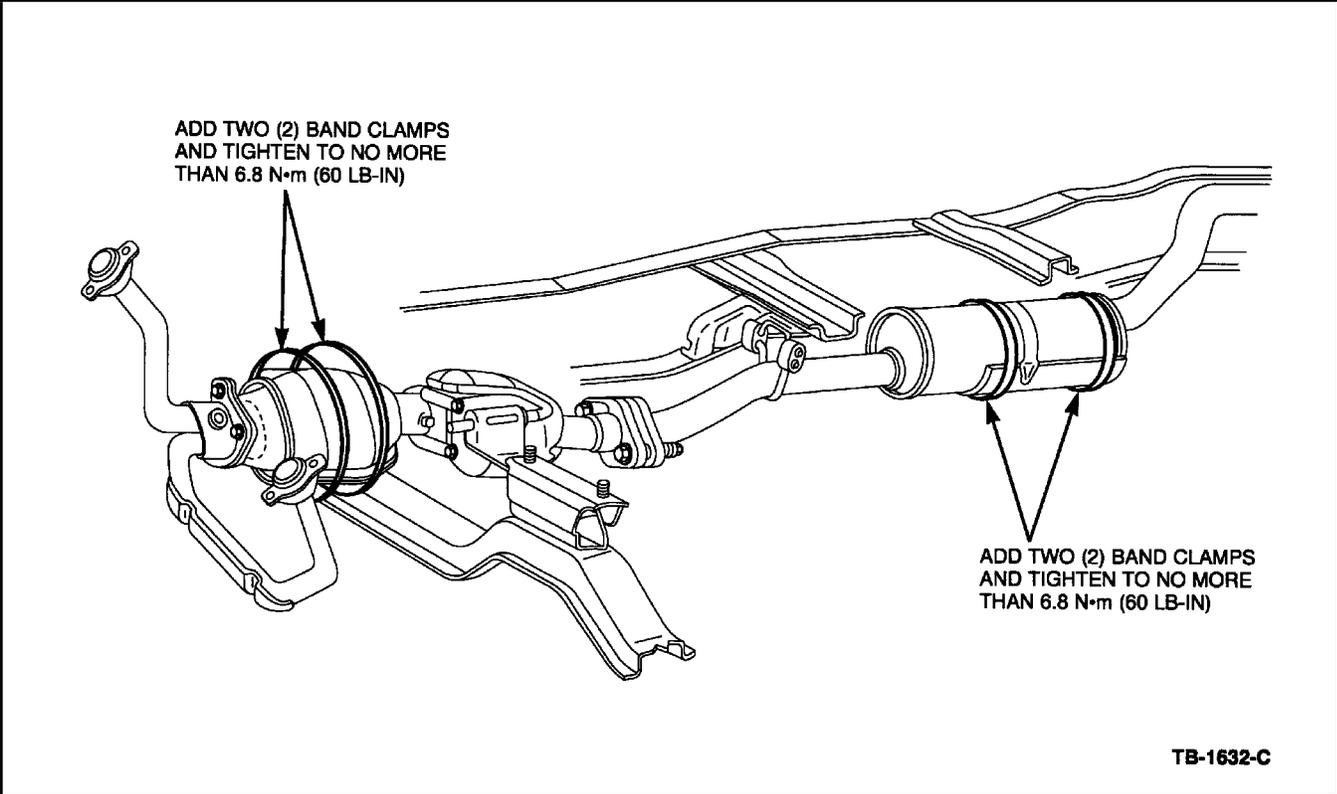


Figure 1 - Article 98-20-10

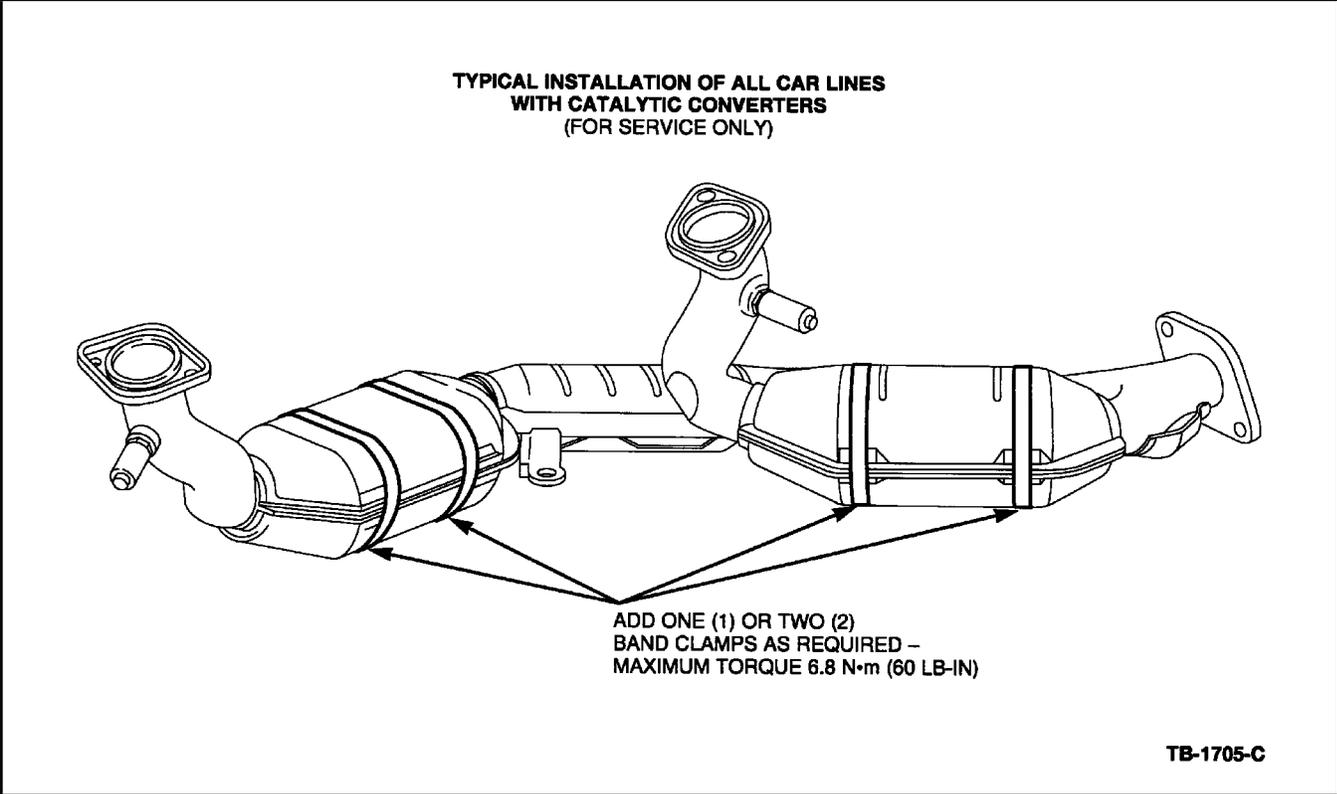


Figure 2 - Article 98-20-10