

# POLICE SERVICE BULLETIN

PM-105

February 24, 1998



## 1997 AND 1998 MODELS AIR SPRING GUARD

### General

Since mid-January 1998, Harley-Davidson has been installing an air spring guard between the frame and the seat air spring on all Police model motorcycles assembled at our York, PA plant. The air spring guard prevents the air spring from chafing on the frame cross member and will extend the service life of the air spring.

Harley-Davidson now offers the air spring guard for retrofit and recommends that the dealer install the air spring guard on the following motorcycles:

- all 1997 Police motorcycles.
- 1998 Police motorcycles built before VIN WY618106.

The air spring guard may be ordered through normal parts channels as Part No. 52972-98.

### Air Spring Guard Installation

1. Remove seat quick release pin and tilt seat forward.

#### NOTE

*Seat fairing torx fasteners may be either TORX plus or standard TORX. Generally, 1997 models use TORX plus fasteners and 1998 models use standard TORX fasteners.*

2. See Figure 1. Remove two seat fairing 5/16 x 18 TORX (plus) mounting screws and seat fairing.

#### ⚠ WARNING

**Always disconnect the negative battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion leading to personal injury and/or property damage.**

3. Disconnect battery cables, negative cable first.
4. Squeeze wings on clamp with piers and pull vent tube from nipple on positive terminal side of the battery.
5. Using a T-40 TORX drive head, loosen bolt to move lip of hold-down clamp off edge of battery. Remove battery from battery box.
6. Release air pressure from system and disconnect air line quick release fitting from bottom of air spring by pushing hose in and releasing plastic collar.
7. Remove two 1/4 x 20 nuts attaching air spring to frame.

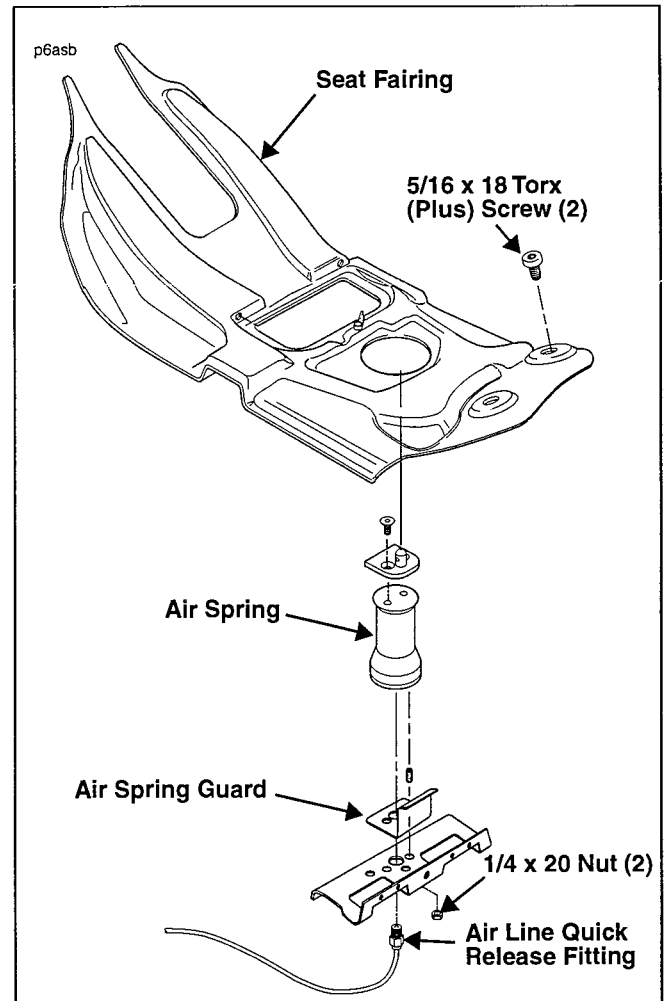


Figure 1. Air Spring Guard Location

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	TECHNICIAN NO. 4	RETURN THIS TO:
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1998 Harley-Davidson® Inc.

8. Lift up air spring and place air spring guard between frame and air spring with flange facing up and towards rear of bike.
9. Install two 1/4 x 20 nuts to air spring. Tighten nuts to 72 in-lbs (8 Nm).

**NOTE**

*Air line may leak if Step 10 is not performed.*

10. Cut a short segment off the end of the air line and re-attach to quick release fitting.
11. Position battery in battery box, terminal side forward.

**⚠ CAUTION**

Connect the cables to the correct battery terminals or damage to the motorcycle electrical system will occur.

**⚠ WARNING**

Always connect the positive battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion leading to personal injury and/or property damage.

12. Connect the battery cables and spacers, positive cable first, to the correct terminals with bolt. Tighten bolt to 40 in-lbs (4.5 Nm).
13. Squeeze wings on clamp with pliers and install vent tube on nipple on positive terminal side of the battery (left side of vehicle). Verify that vent tube is not kinked or obstructed, that it does not touch or chafe against any moving parts and that the outlet end is directed away from all metal components.
14. Rotate the hold-down clamp so that the lip (with rubber pad) rests on the edge of the battery. Using a T-40 TORX drive head, tighten the clamp bolt to 15-20 ft-lbs (20-27 Nm).
15. Install seat fairing with two 5/16 x 18 torx (plus) screws.
16. Pivot seat down onto air spring and install quick release pin.
17. Pressurize seat air spring to desired level. Spray or brush a light film of soapy water around air line quick release fitting and check for leaks.
18. See Credit Procedures.

## Credit Procedures

To receive credit, complete a regular Warranty Claim Form referencing Service Bulletin PM-105 in the "Description of Repair" section. Fill in the rest of the claim as follows:

CLAIM TYPE*	*MC or GDW
QTY.	1
EVENT 1, PROBLEM PART NO.	52972-98
PART DESCRIPTION	Air Spring Guard
PRIMARY LABOR CODE	2514
TIME.	0.4 hrs
CUSTOMER CONCERN	6811
CONDITION CODE	2208

\*The claim type may vary depending on the status of the vehicle warranty:

- If the vehicle is in warranty, claim type should be MC.
- If the vehicle is out of warranty, claim type should be GDW.

NO PRIOR AUTHORIZATION IS REQUIRED FOR VEHICLES OUT OF WARRANTY.