

Technical Bulletin	Model 944 S	Group 9
Subject: Providing Fuse Protection for Steering Pump Switch (Service Action 191)	Part Identifier 9715	Number 9108

ATTENTION: Service Manager/Service Technician

This is to notify you of a Service Action for 1987/88 Model 944 S Porsches. It has been determined by Porsche AG that in some cases, the contact spring inside the steering pump switch (for idle regulation) could break causing a short circuit in the switch. This may, under some circumstances, lead to an overload in the DME wiring harness causing it to short out. Affected vehicles may have reduced idle and/or a stall in certain limited circumstances.

Damage to the DME harness can be prevented by providing fuse protection for the steering pump switch circuit.

The vehicles effected by this service action are:

Model 1987: WP0AA094 _HN450001 to WP0AA094 _HN453127
 WP0AA294 _HN465101 to WP0AA294 _HN465113

Model 1988: WP0AA294 _JN465061 to WP0AA294 _JN465561

Customer Notification

Porsche Cars North America, Inc. will notify all known owners directly by first class mail during the week of December 12, 1991 as per the attached copy of the Customer Notification letter.

For those vehicles in dealer inventory, or for those for which we do not have sales information, the notification will be addressed to the dealer. If the vehicle is in dealer inventory, the service action involving the steering pump switch should be preformed without delay.

If the vehicle has been retailed or dealer traded, the dealer is to make the necessary arrangements to have the customer or receiving dealer contacted and the service action performed.

Work Procedure

See attachments.

Parts Requirements

The first shipments of parts required to perform the service action will be shipped to your dealership during the week of December 12, 1991.

The parts required to perform this service action are:

Quantity	Part Number	Description
1	944 612 956 00	Wiring Kit
1	N 020 904 4	Tie Strap
1	N 020 906 3	Tie Strap

Additional quantities, after the initial allocation is made, should be ordered as needed through normal parts channels using the above part numbers.

Technical Bulletin

Model
944 S

Group
9

**Subject: Providing Fuse Protection for
Steering Pump Switch (Service Action 191)**

Part Identifier
9715

Number
9108

Time Allowance

See Administrative Procedures

Administrative Procedure

See attachments.

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WORK PROCEDURE
Service Action 191

1. Raise vehicle on hoist and note radio presets.
2. Open engine lid, install fender covers and disconnect battery negative post and insulate.
3. Remove cover from central electric board.
4. Remove phillips screws (arrow /Figure 1) and lift CEB from body.
5. Unlock the locking rail on CEB underside (arrow / Figure 2).
6. Pull off CEB plugs "L" and "F", if necessary, cut tie strap.
7. Remove the first element from CEB plug "L". Install the supplied wiring bridge with connector (800mm long, 0.5mm², black /yellow) into element 1, position 5 (Figure 3). Reassemble element and install plug "L" into CEB.
8. Disassemble wiring plug "F". Install the other connector from wiring bridge in element 2 position 3. Reassemble element and install plug "F" into CEB.
9. Remove two phillips screws from the cover for the wiring plug front /DME harness and remove cover.
10. Disconnect 14 pin plug. Open tie strap on partition wall. Disengage wiring plug from bracket on partition wall.

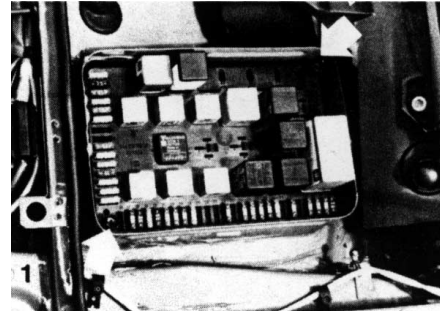


Figure 1

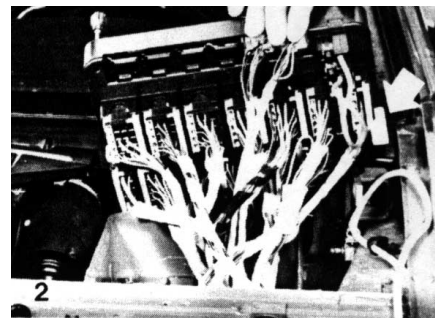


Figure 2

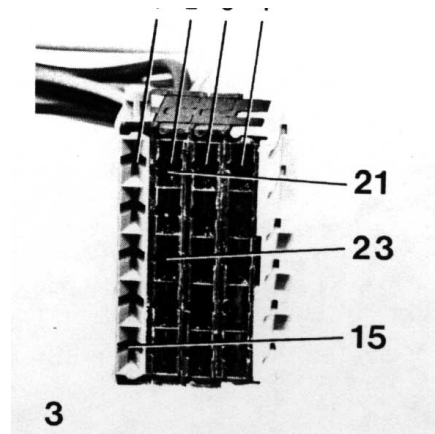


Figure 3

11. Remove cover from female part of wiring plug. Install solder terminal of wiring (800mm long, 2.5mm², black / yellow) in position 11 of the wiring plug. Reinstall cover of wiring plug. Route wiring through additional hole of rubber grommet in partition wall into vehicle inside CEB area (Figure 4). Open up hole in grommet by pulling off rubber nipple. Pull wiring from body well. Install and solder connector (from kit). Part Number 999 652 475 22.

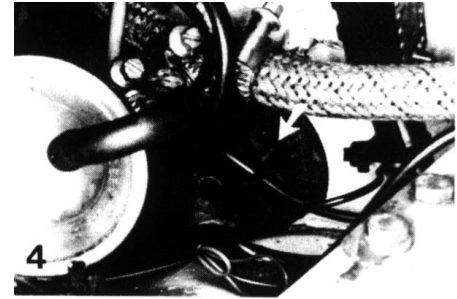


Figure 4

12. Remove wiring plug "E" from CEB and disassemble. Engage installed connector in element 2, position 1. Reassemble wiring plug and install plug into CEB.

13. Engage CEB locking rail.

14. Tie down additional wiring with tape and, if necessary, tie down wiring harnesses with tie strap. Part Number N 020 906 3.

15. Reinstall CEB and tighten the two phillips screws. Install 7.5A fuse in position 35. Reinstall CEB cover.

16. Remove upper cover from 14 pin plug (engine side). Install solder terminal of wiring (2,300mm long, 2.5mm², black /yellow) in position 11. Reinstall plug cover.

17. Reconnect 14 pin plug. Engage housing in bracket on partition wall and reinstall tie strap. Reinstall 14 pin plug cover with two phillips screws.

18. Remove fuel rail cover.

19. Route new wire from 14 pin plug through tie straps on partition wall to fuel rail. Route wiring through tie straps on fuel rail towards the belt cover. Tie down wiring on fuel rail with additional tie strap. Part Number N 020 902 4 (Figure 5).

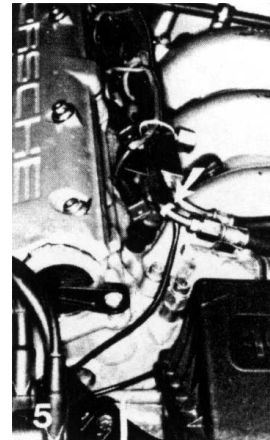


Figure 5

20. Route wiring between belt cover and cylinder head parallel to the oil pressure switch wiring harness. Reinstall fuel rail cover (Figure 6).
21. Lift vehicle. Remove the engine cover plate screws and remove cover plate. Use tie strap to tie wiring to harness. Pull off rubber boot and angled connections from steering pump pressure switch. Cut terminal from 0.75mm², red/blue wire. Pull insulation hose through rubber boot and cut off approximately 50mm. Loop red/blue wire and guide into insulation hose. Push newly installed wire through rubber boot (Figure 7).

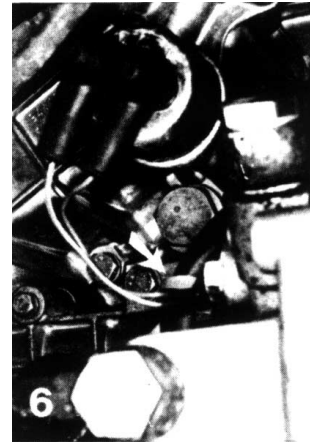


Figure 6

22. Push shrink tubing from kit (approximately 35mm long) over both insulation hoses. If necessary, bend the wire connection to permit installation of the shrink tube over the angled wire connector. Heat shrink tubing in the area of the wiring loop with hot air blower and press tight (Figure 8).

23. Cut newly installed wire to correct length and install angled connector from kit. Solder connector to cable end.

24. Cut a 3mm diameter water drain hole at the lowest point of the rubber boot. Connect wiring terminals and install rubber boot.

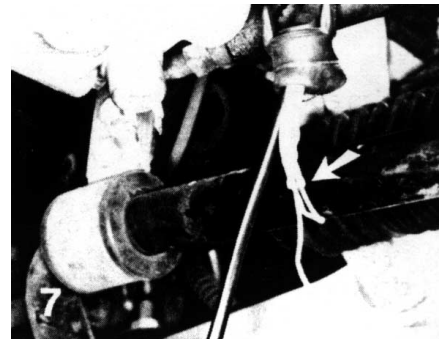


Figure 7

25. Reinstall engine cover plate. Make sure wiring does not contact cover plate.

26. Lower vehicle.

27. Connect battery.

28. Remove fender covers and close engine lid.

29. Perform system adaption. Only from VIN # 94 _ JN465225.



Figure 8

Note: Set time clock and radio pre-sets (code radio where applicable.)

ADMINISTRATIVE PROCEDURE
Service Action 191
 Providing fuse protection for Steering Pump Switch

Warranty Claims should be submitted via DCS

Affected VINs: WP0AA094 _ HN450001 to WP0AA094 _ HN453127
 WP0AA294 _ HN465101 to WP0AA294 _ HN465113
 WP0AA294 _ JN465061 to WP0AA294 _ JN465561

Warranty Code: R

Providing fuse protection for steering pump switch

Damage Code: AM03 99 191 2
 Labor Operation: 9715 19 0A
 Time Units: 160 TU
 Parts Quantity: 1 each
 Part Number: 944 612 956 00/N 020 904 4/N 020 906 3
 Warranty Parts \$: 11.50

In cases where the service action **cannot** be performed, submit the information on a claim via DCS /IDCS with the appropriate disposition code by inserting the code in the last digit of the damage code.

Disposition	Damage Code To Be Used	Parts and Labor
3 - Total loss	AM03 99 191 3	Not applicable
4 - Vehicle stolen	AM03 99 191 4	"
5 - Vehicle left U.S.A.	AM03 99 191 5	"
6 - Customer moved, new address unknown	AM03 99 191 6	"
7 - Vehicle sold, new owner unknown	AM03 99 191 7	"
9 - Customer refused to comply	AM03 99 191 9	"

Owner Name and Address Change

If owner name and /or address is shown incorrectly, submit correction using name /address change postcard from the Warranty and Maintenance Booklet or service action mailing, or report to Porsche Cars N.A. via DCS /IDCS to the Warranty Department of change, including VIN.

(COPY OF LETTER TO CUSTOMERS)

December 12, 1991

Subject: Service Action
1987/88 Porsche 944S vehicles
Providing fuse protection for Steering Pump Switch

Dear Porsche Owner:

Our records indicate that you are the owner of a Porsche model 944S. Porsche AG has determined that in some cases the Steering Pump Switch could break internally causing a short circuit and subsequent engine wiring harness damage.

This condition will manifest itself as insufficient idle speed and/or engine stall with no restart.

A wiring modification with fusing has been developed by Porsche AG. In order to insure proper service life of the vehicle and to prevent possible inconveniences, this modification must be performed on your vehicle.

Please contact your Porsche dealer as soon as possible for an appointment to have the necessary work performed at our cost. Replacement parts should be available at your Porsche dealer.

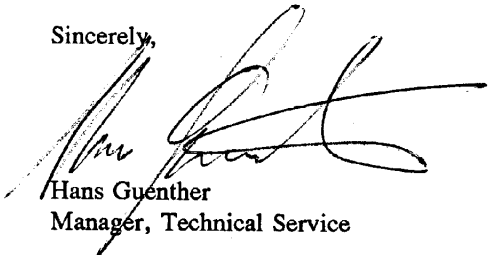
The estimated time to perform the necessary work is approximately two (2) hours.

If your Porsche dealer fails, or is unable to perform this work without charge to you within a reasonable amount of time, you may call or write to:

Porsche Cars North America, Inc.
100 West Liberty Street
P.O. Box 30911
Reno, NV 89520-3911
attn: Owner Relations
telephone: 1-800-545-8039

We sincerely regret any inconvenience this action may cause, nevertheless, we are confident that you understand our interest in you as our valued Porsche customer.

Sincerely,



Hans Guenther
Manager, Technical Service

HG/se