

Piston Spray Jets

Vehicle Type: **911 Carrera (964 and 993)**

Model Year: **As of 1989 (K)**

Concern: Correct application of piston spray jets.

Information: As of Model Year 1989, piston spray jets used for piston cooling are installed in the engine case for each cylinder (Figure 1). The following information will assist in selecting the correct spray jets for a particular engine type. The spray jets are available as short version or long version in standard diameter or oversize diameter.

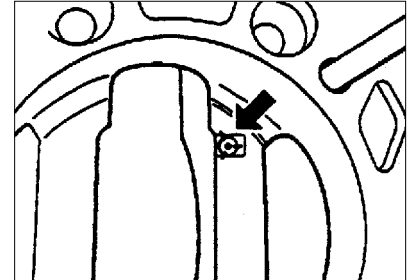


Figure 1

Application: **Normally Aspirated Engines**

Model Year 1989 to 1994
Engine Types M64.01/02/03/04
Cylinders #1 to #6 short spray jets

Model Year 1995
Engine Types M64.05/06/07/08
Cylinders #1 to #6 short spray jets

Model Year 1995
Engine Types M64.05/06/07/08/20
As of start of production: cylinders #1 to #6 short spray jets
As of February 1995 production: cylinders #1, #2, #3, #5 and #6 short spray jets
cylinder #4 long spray jet

Model Year 1996
Engine Types M64.20/21/22/23/24
As of start of production: cylinders #1 to #6 short spray jets
As of September 1995 production: cylinders #1, #2, #3, #5 and #6 short spray jets
cylinder #4 long spray jet

Model Year 1997
Engine Types M64.21/22/23/24
Cylinders cylinders #1, #2, #3, #5 and #6 short spray jets
Cylinder #4 long spray jet

Application: (cont'd) **Turbo Engines**

Model Year 1991 and 1992
Engine Type M30.69
Cylinders #1 to #6 short spray jets

Model Year 1994
Engine Type M64.50
Cylinders #1 to #6 short spray jets

As of Model Year 1996
Engine Type M64.60
Cylinders #1 to #6 long spray jets

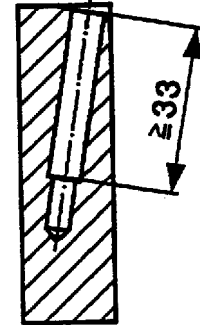


Figure 2

Repairs: For installation of a "Long Spray Jet" the depth of the bore for the spray jet must be 33mm. If the depth of the bore is less than 33mm a short spray jet must be installed. The spray jet bore is measured to the first shoulder in the bore (Figure 2). **The bore must not be reworked.**

Parts:

964 101 905 10	Universal engine case equipped with 6 Long Spray Jets.
964 101 020 00	Short Spray Jet (length 21.5mm, diameter 6.3mm).
993 101 018 51	Long Spray Jet (Length 33.5mm, diameter 6.3mm).
964 101 020 50	Oversize Short Spray Jet (length 21.5mm, diameter 6.7mm).
993 101 018 60	Oversize Long Spray Jet (Length 33.5mm, diameter 6.7mm).

Literature: 993 Workshop Manual, Volume 1, Group 13.

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