Techn	ical Bulletin	911 C2/C4	Group 3
Subject:	Determining Clutch and Double-Mass Flywheel Damage	Part Identifier 3056/1360	Number 9103

ATTENTION: Service Manager/Service Technician

Models Affected:

911 Carrera 2 and 911 Carrera 4

Model Years:

From model year 1990

Concern:

Determining clutch and double-mass flywheel damage.

Repair Information:

The following information will aid in diagnosing clutch and double-mass flywheel malfunctions. Service and repair hints are listed in the right

column.

		Possible Cause/	*Components Affected			
Complaint	Defect	Repair Hints	PP	D	SF	DMF
Clutch shudder	Lining burned. Disc liner springs lost tension. Deformation of lining surface.	Damage from excessive heat, abusive treatment of clutch.	x	X	X	
	Release bearing /release lever shaft binding.	Clutch bearing and release lever must be free-moving.	_		_	_
Clutch slipping	Clutch lining separated. Lining burned.	Slipping while driving with clutch engaged. Clutch controls out of adjustment.	(X)	X	(X)	
		Damage from excessive heat, abusive treatment of clutch.	×	Х	Х	(X)
	Linings wom. Lining surface wavy.	Usually vehicles with high mileage.	x	X	-	Х
	Oil on linings.	Crankshaft seal leaking. Excessive grease on splines or release bearing guide.	(X)	X	· <u> </u>	_
	Lining burned, brittle, cracked, burned smell	Vehicles with low mileage. Excessive heat, abusive treatment of clutch.	X	X	Х	_



Techn	ical Bulletin	911 C2/C4	Group 3
Subject:	Determining Clutch and Double-Mass Flywheel Damage	Part Identifier 3056/1360	Number 9103

0	Defeat	Possible Cause/		npone		
Complaint	Defect	Repair Hints	PP	D	SF	DMF
Clutch binding	Discoloration (yellow-blue /blue-violet) of contact surface and clutch parts. Contact surface of pressure plate and secondary flywheel conical deformed. Lining torn away (pressure plate side or both sides).	Pressure plate travel obstructed from lining particles. Excessive heat from abusive treatment.	X	X	X	_
	Lining cracked and tom.	Over rev on downshift (possible engine damage). No indication of overheating. Abuse.	X	X		Х
	Lining cracked and tom, starting from rivet area.	Lining damaged during assembly. Pressure plate could be obstructed from lining particles. No indication of overheating.	(X)	X	_	-
	Clutch pedal returns slowly to stop position.	Pedal spring incorrectly adjusted. Hydraulic line kinked or pinched.	<u></u>		_	
Clutch does not fully disengage or disengages slowly.	Clutch pedal does not return to stop position. No disengagement at high temperatures.	Air in clutch hydraulic system. Clutch controls out of adjustment. Pedal servo-spring out of adjustment.	_	_		
Noises, jerking	Rattle at idle and jerking at part load. Rattle on acceleration or deceleration and jerking at full load.	Rubber damper broken.	_	-	-	Х
	Mechanical noises.	Starter gear or secondary flywheel mounting bolts loose.			_	X
		Cover plate (heatshield) on secondary flywheel loose or broken.	. —	_	X	

P1991 Porsche Cars
 North America, Inc.
All rights reserved. Cannot be reproduced without written permission.
Porsche Technical Publications



Technical Bulletin		Model 911 C2/C4	Group 3	
Subject:	Determining Clutch and Double-Mass Flywheel Damage	Part Identifier 3056/1360	Number 9103	

		Possible Cause/	*Components Affected			
Complaint	Defect	Repair Hints	PP	D	SF	DMF
Imbalance	Imbalance for a short time after starting engine.	Silicone grease settles on low point of damping chamber. Possible after long parking time.				. -
	Imbalance throughout whole engine RPM range.	Rubber damper broken. Mounting bolts loose.	-	_	_	Х
No torque transfer	Torsion stops broken (clutch slipping).	Subsequent damage from broken rubber damper. Clutch parts not damaged.				Х

*Component Affected:

PP - Pressure plate

D - Clutch disc

SF - Secondary flywheel DMF - Double-mass flywheel

X - Parts to be checked or replaced

(X) - Parts could be affected

Literature:

Workshop Manual 911 Carrera, Volume II, Group 30 - Adjusting servo

spring.

Workshop Manual 911 Carrera 2/4, Volume II, Group 30 -

Disassembling /checking clutch and disc.

Workshop Manual 911 Carrera 2/4, Volume I, Group 13 -

Disassembling double-mass flywheel.

Service Information Technik 911 Carrera 2/4, Model Year '90.

Technical Bulletin Group 3, Number 9003, "Clutch Does Not

Disengage Fully".

