12. General Diagnostic Table

S504257

A: INSPECTION S504257A10

1. CLUTCH \$504257A1002

Symptom	Possible cause	Corrective
1. Clutch slippage.	(a) Clutch facing smeared by oil	Replace.
It is hard to perceive clutch slippage in	(a) crassing consensurally con	1.00
the early stage, but pay attention to the		
following symptoms		
 Engine speed up when shifting. 	(h) Mana alutah taning	Danlage
 High speed driving is impossible; 	(b) Worn clutch facing	Replace.
especially rapid acceleration impossible		
and vehicle speed does not increase in		
proportion to an increase in engine		
speed.	(c) Deteriorated diaphragm spring	Replace.
Power falls, particularly when ascending a slane, and there is a small of humanism.		
ing a slope, and there is a smell of burn-		
ing of the clutch facing.Method of testing: Put the vehicle in		
stationary condition with parking brake	(d) Distorted pressure plate or flywheel	Correct or replace.
fully applied. Disengage the clutch and	(a) Biotortea procedio piato di ny wilcon	Correct of Topiaco.
shift the transmission gear into the first.		
Gradually allow the clutch to engage		
while gradually increasing the engine	() 5 (;	
speed. The clutch function is satisfactory	(e) Defective release bearing holder	Correct or replace.
if the engine stalls. However, the clutch		
is slipping if the vehicle does not start off		
and the engine does not stall.		
2. Clutch drags.	(a) Worn or rusty clutch disc hub spline	Replace clutch disc.
As a symptom of this trouble, a harsh		
scratching noise develops and control	(h) Francisco defination of distallable	0
becomes quite difficult when shifting	(b) Excessive deflection of clutch disc	Correct or replace.
gears. The symptom becomes more	facing	
apparent when shifting into the first gear.		
However, because much trouble of this sort is due to defective synchronization	(c) Seized crankshaft pilot needle bear-	Replace.
mechanism, carry out the test as	ing	'
described after.		
Method of testing: <ref. cl-27<="" td="" to=""><td></td><td></td></ref.>		
DIAGNOSTIC DIAGRAM OF CLUTCH	(d) Cracked clutch disc facing	Replace.
DRAG, INSPECTION, General Diagnos-		
tic Table.>	(e) Sticked clutch disc (smeared by oil or	Replace.
It may be judged as insufficient disen-	water)	rteplace.
gagement of clutch if any noise occurs	(Wator)	
during this test.		
3. Clutch chatters. Clutch chattering is an unpleasant vibration to the whole body when the vehicle is just started with clutch partially engaged.	(a) Adhesion of oil on the facing	Replace clutch disc.
	(b) Weak or broken torsion spring	Replace clutch disc.
	(c) Defective facing contact or excessive	Replace clutch disc defection.
	disc	
	(d) Warped pressure plate or flywheel	Correct or replace.
	(e) Loose disc rivets	Replace clutch disc.
	(f) Loose engine mounting	Retighten or replace mounting.
	(g) Improper adjustment of pitching stopper	Adjustment.

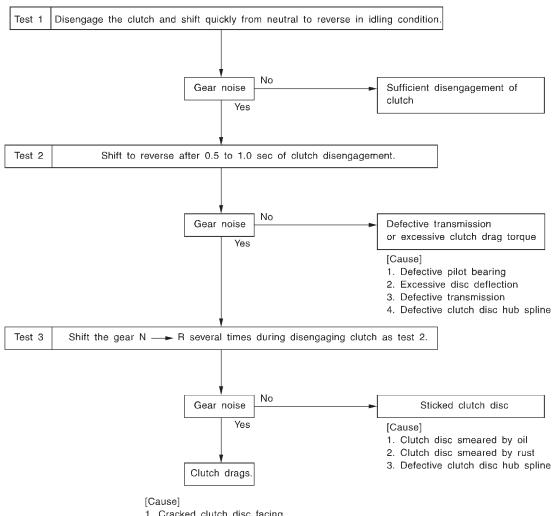
Clutch System

Symptom	Possible cause	Corrective
4. Noisy clutch Examine whether the noise is generated when the clutch is disengaged, engaged, or partially engaged.	(a) Broken, worn or unlubricated release	Replace release bearing.
	bearing	
	(b) Insufficient lubrication of pilot bearing	Apply grease.
	(c) Loose clutch disc hub	Replace clutch disc.
	(d) Loose torsion spring retainer	Replace clutch disc.
	(e) Deteriorated or broken torsion spring	Replace clutch disc.
5. Clutch grabs. When starting the vehicle with the clutch partially engaged, the clutch engages suddenly and the vehicle jumps instead of making a smooth start.	(a) Grease or oil on facing	Replace clutch disc.
	(b) Deteriorated cushioning spring	Replace clutch disc.
	(c) Worn or rusted spline of clutch disc	Take off rust, apply grease or replace
	or main shaft	clutch disc or main shaft.
	(d) Deteriorated or broken torsion spring	Replace clutch disc.
	(e) Loose engine mounting	Retighten or replace mounting.
	(f) Deteriorated diaphragm spring	Replace.

2. CLUTCH PEDAL S504257A1003

Trouble	Corrective action
Insufficient pedal play	Adjust pedal play.
Clutch pedal free play insufficient	Adjust pedal free play.
Excessively worn and damaged pedal shaft and/or bushing	Replace bushing and/or shaft with new one.

3. DIAGNOSTIC DIAGRAM OF CLUTCH DRAG S504257A1001



- 1. Cracked clutch disc facing
- 2. Damaged or worn clutch cover
- 3. Malfunction of clutch release system
- 4. Insufficient clutch release amount

B2M1012B

MEMO: