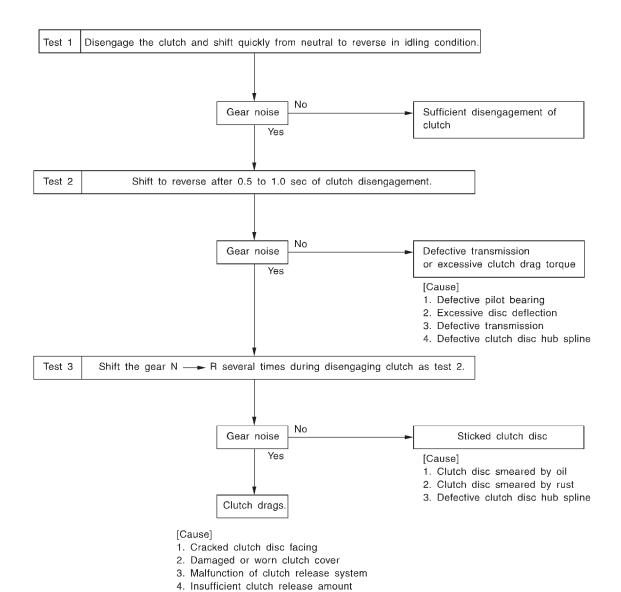
DIAGNOSTICS

1. Clutch System

Symptom	Possible cause	Corrective
1. Clutch slippage.	(a) Clutch facing smeared by oil	Replace.
It is hard to perceive clutch slippage in		
the early stage, but pay attention to the following symptoms		
 Engine speed up when shifting. 		
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.	(a) Deteriored discharge and a sign	Darilana
 Power falls, particularly when ascend- 	(c) Deteriorated diaphragm spring	Replace.
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	(d) Distorted pressure plate of flywheel	Correct or replace.
shift the transmission gear into the first.		
Gradually allow the clutch to engage		
while gradually increasing the engine	(e) Defective release bearing holder	Correct or replace.
speed. The clutch function is satisfactory if the engine stalls. However, the clutch	(1)	
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	(b) Excessive deflection of clutch disc	Correct or replace.
becomes quite difficult when shifting gears. The symptom becomes more	facing	
apparent when shifting into the first gear.		
However, because much trouble of this	(c) Seized crankshaft pilot needle bear-	Replace.
sort is due to defective synchronization	ing	
mechanism, carry out the test as described after.		
Method of testing: <ref. 2-10<="" td="" to=""><td>(d) Cracked clutch disc facing</td><td>Replace.</td></ref.>	(d) Cracked clutch disc facing	Replace.
[K1A0].>		
It may be judged as insufficient disen-	(e) Sticked clutch disc (smeared by oil or	Replace.
gagement of clutch if any noise occurs	water)	
during this test.	(a) Adhanian of ail on the facing	Panlaga alutah diga
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 (c) Defective facing contact or excessive	Replace clutch disc. Replace clutch disc defection.
	disc	Replace cluton disc defection.
	(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 stop-	Adjustment.
	per	
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.

Symptom	Possible cause	Corrective
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 or main shaft	Take off rust, apply grease or replace 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.

A: DIAGNOSTIC DIAGRAM OF CLUTCH DRAG



B2M1012B