

GROUP 21B

CLUTCH
OVERHAUL

CONTENTS

SPECIFICATIONS	21B-2	SPECIAL TOOLS	21B-2
TORQUE SPECIFICATIONS	21B-2		
GENERAL SPECIFICATIONS	21B-2	CLUTCH	21B-3
SERVICE SPECIFICATIONS	21B-2	CLUTCH REMOVAL AND	
LUBRICANTS	21B-2	INSTALLATION	21B-3
		INSPECTION	21B-6

SPECIFICATIONS

TORQUE SPECIFICATIONS

M1212001801050

Item	N·m (lb)
Clutch cover mounting bolt	19 ± 1 (4.3 ± 0.2)

GENERAL SPECIFICATIONS

M1212000201419

Item	Specifications
Clutch operating method	Cable type
Clutch disc type	Single dry disc type
Clutch disc size OD x ID mm (in)	190 × 132 (7.5 × 5.2)
Clutch cover type	Diaphragm spring type
Clutch cover setting load N (lb)	2,740 ± 210 (616 ± 47.2)

SERVICE SPECIFICATIONS

M1212000300770

Item	Limit
Diaphragm spring end height difference mm (in)	0.5 (0.02)
Clutch disc facing rivet sink mm (in)	Minimum 0.3 (0.01)

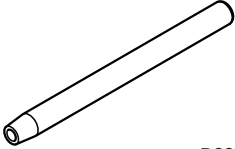
LUBRICANTS

M1212000400841

Item	Specified lubricant
Clutch release shaft	Mitsubishi Part number 0101011 or equivalent
Clutch release bearing inside	
Clutch disc splines	

SPECIAL TOOLS

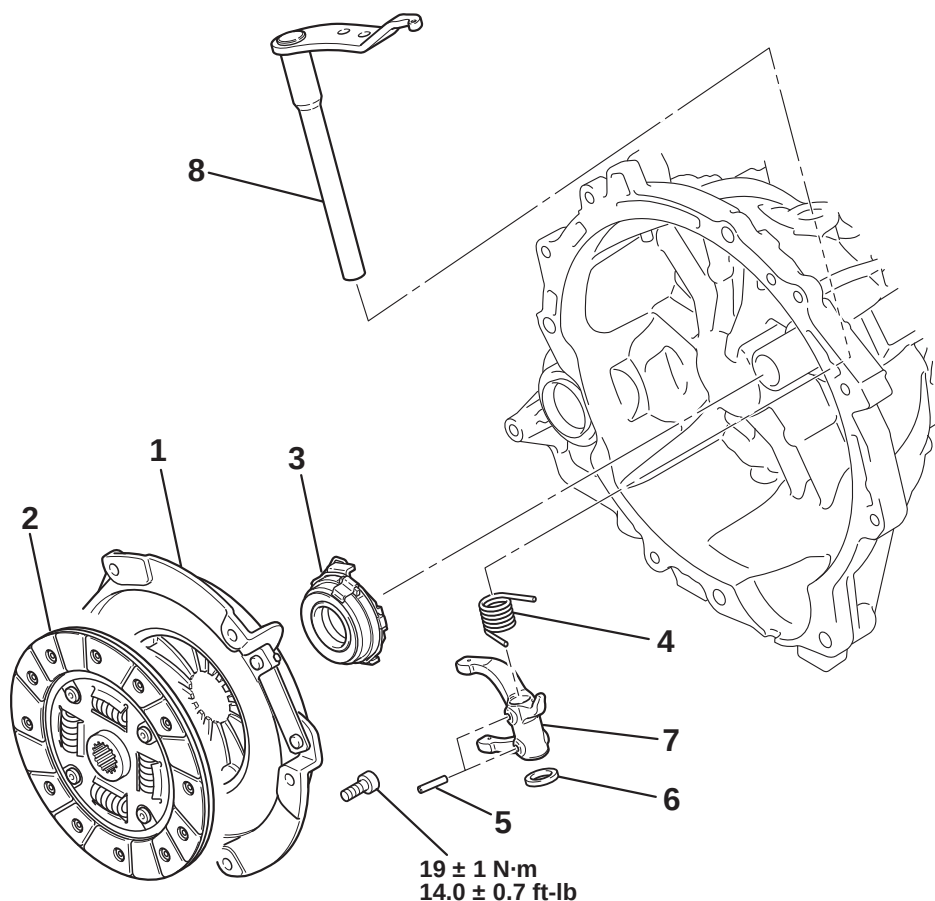
M1212000600179

Tool	Tool number and name	Supersession	Application
 D998245	MD998245 Lock pin installer	-	Installer pin

CLUTCH

CLUTCH REMOVAL AND INSTALLATION

M1212001001485



AKB00583AB

Disassembly steps

- >>E<< 1. Clutch cover
>>E<< 2. Clutch disc
>>D<< 3. Clutch release bearing
<<A>> >>C<< 4. Clutch shifter return spring

<>

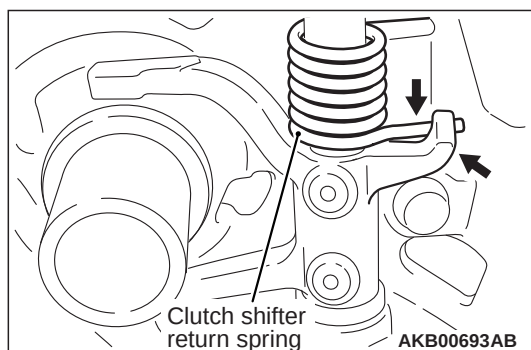
Disassembly steps (Continued)

5. Spirol pin
6. Packing
>>B<< 7. Release fork
>>A<< 8. Clutch control lever assembly

REMOVAL SERVICE POINT

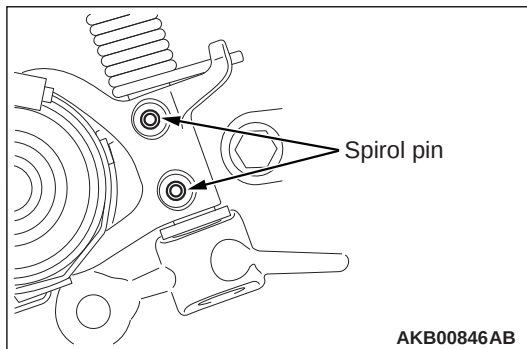
<<A>> CLUTCH SHIFTER RETURN SPRING
REMOVAL

A clutch shifter return spring end is raised and removed with a minus driver.



<> SPIROL PIN REMOVAL

Remove the spirol pin.



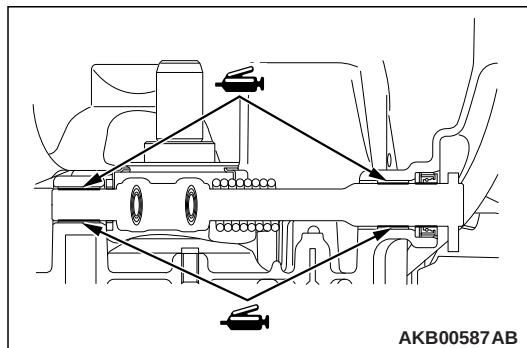
INSTALLATION SERVICE POINTS

>>A<< CLUTCH CONTROL LEVER ASSEMBLY
INSTALLATION

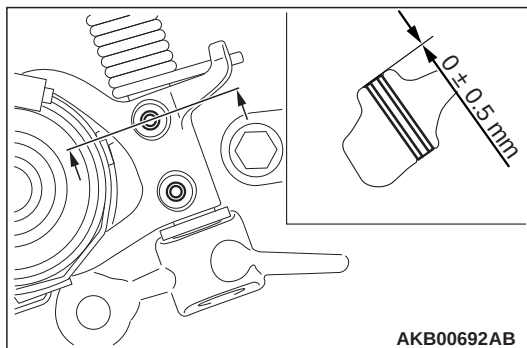
Apply the specified grease to the clutch control lever assembly.

Specified grease:

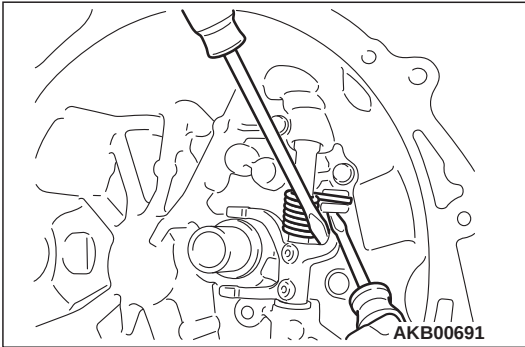
Mitsubishi Part No. 0101011 or equivalent

>>B<< CLUTCH CONTROL LEVER ASSEMBLY
INSTALLATION

Using special tool lock pin installer(MD998245), install the spirol pin.

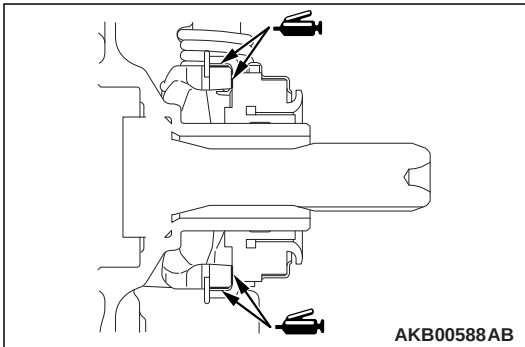


>>C<< CLUTCH RELEASE SPRING INSTALLATION

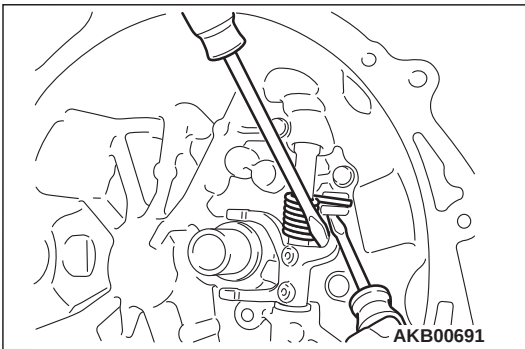


1. The following procedure performs using two minus driver.
 1. By minus driver, a clutch shifter return spring end is stuffed into a fulcrum for release fork in the point of a lever to the back.
 2. With one more minus driver, in the way of a lever, a clutch shifter return spring end is pushed on a fulcrum below and a case height is attached to it.

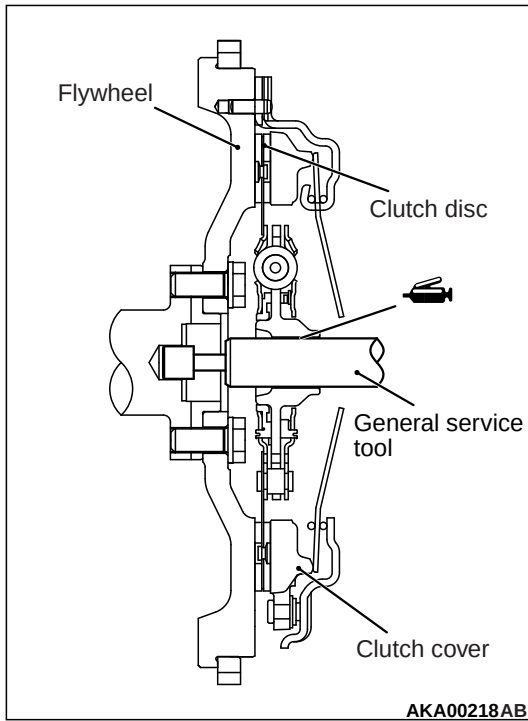
>>D<< CLUTCH RELEASE BEARING INSTALLATION



1. Apply the specified grease to the clutch release bearing.
Specified grease:
Mitsubishi Part No. 0101011 or equivalent
2. Insert the clip of the clutch release bearing to the release fork.



3. The following procedure performs using two minus driver.
 1. By minus driver, a spring end is stuffed into a fulcrum for release fork in the point of a lever to the back.
 2. With one more minus driver, in the way of a lever, a clutch shifter return spring end is pushed on a fulcrum below and a case height is attached to it.

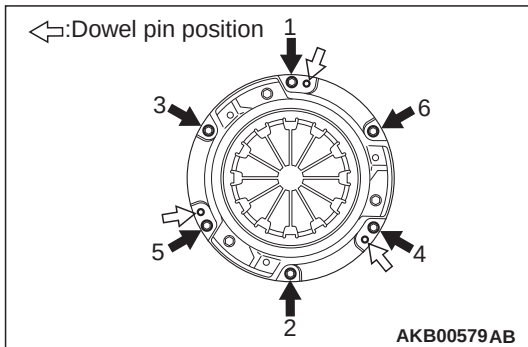
>>E<< CLUTCH DISC / CLUTCH COVER
INSTALLATION

1. Apply grease to the clutch disc splines and rub it in the splines with a brush.

Specified grease:

Mitsubishi Part No. 0101011 or equivalent

2. Using the clutch disc guide to position the clutch disc on the flywheel.



3. Install the clutch cover, aligning its installation position with the dowel pins, and then tighten the bolts to the specified torque of 19 ± 1 N·m in the order shown in the illustration.

INSPECTION

M1212001100768

CLUTCH COVER

1. Check the diaphragm spring end for wear and uneven height. Replace if wear is evident or height difference exceeds the limit.
Limit: 0.5 mm (0.02 in)
2. Check the pressure plate surface for wear, cracks and discoloration.
3. Check the rivets of the strap plate for looseness. If loose, replace the clutch cover.

CLUTCH DISC

CAUTION

Don't clean the clutch disc in a cleaning solvent.

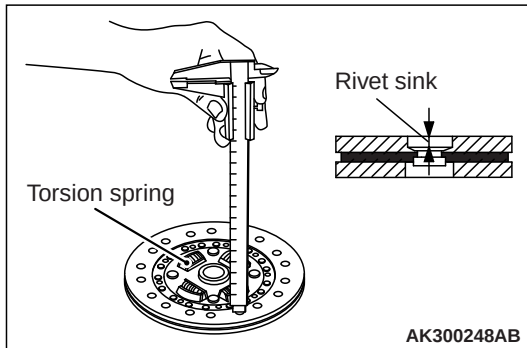
1. Check the facing for loose rivets, uneven contact, evidence of seizure, or deposited oils and greases. If defective, replace the clutch disc.

NOTE: If contaminated with grease or oil, determine the source of the contaminant and repair it.

2. Measure the rivet sink. Replace the clutch disc if it is below the limit.

Limit: 0.3 mm (0.01 in)

3. Check the torsion spring for play and damage. If defective, replace the clutch disc.
4. Place the clutch disc on the input shaft and check for sliding condition and play in the rotating direction. If poor sliding condition is evident, clean, reassemble, and recheck. If excessive play is evident, replace the clutch disc and/or input shaft.



CLUTCH RELEASE BEARING

CAUTION

Release bearing is packed with grease. Therefore, do not wash it in a cleaning solvent.

1. Check for seizure, damage, noise or binding/rough rotation.
2. Check for wear on the surface which contacts with the diaphragm spring.
3. Check for wear on the surface which contacts with the release fork. If abnormally worn, replace the mechanical release unit.

RELEASE FORK

If the surface which contacts with the bearing is abnormally worn, replace the mechanical release unit.

NOTES