
GROUP 21B

CLUTCH OVERHAUL

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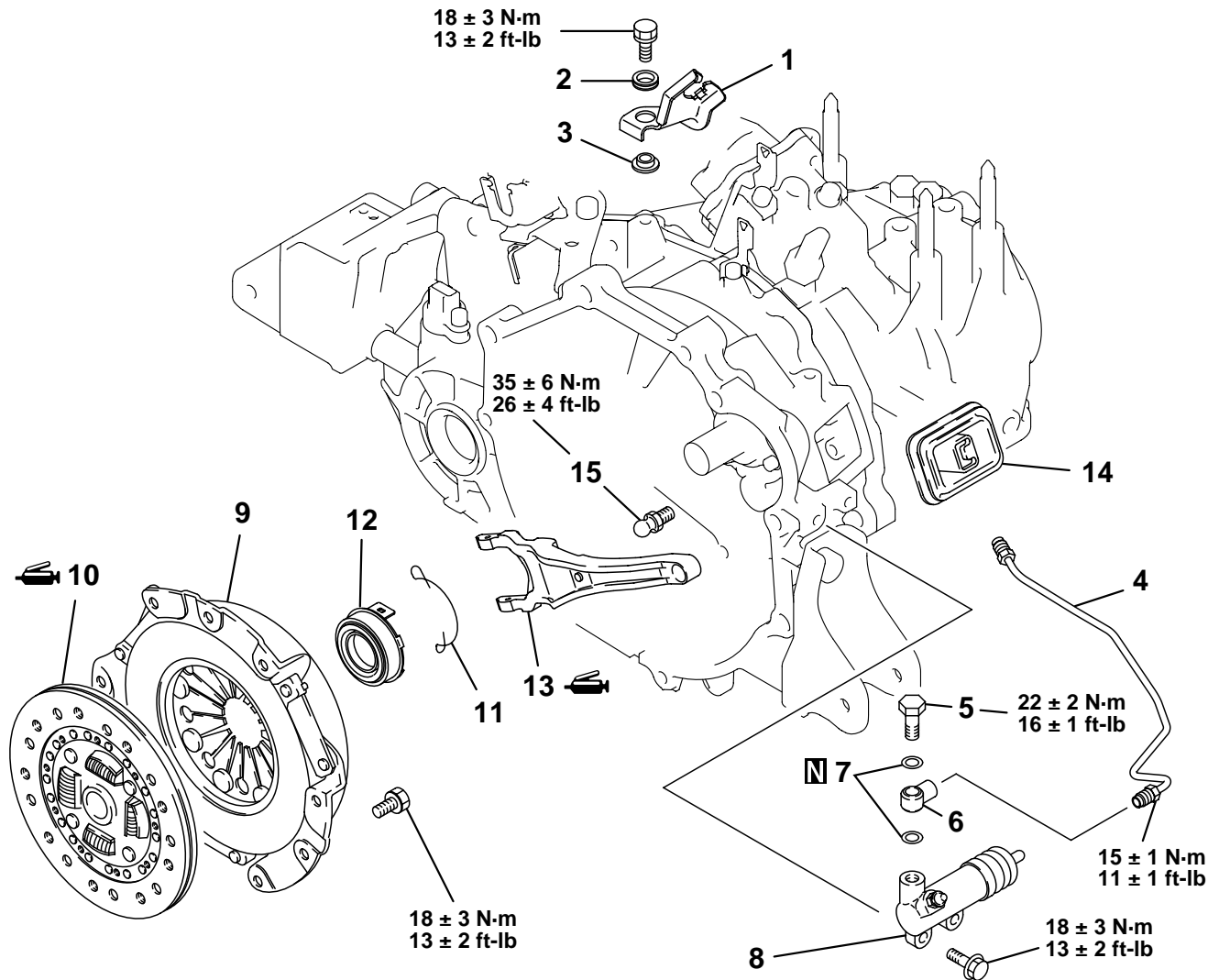
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CLUTCH

REMOVAL AND INSTALLATION

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<F5M42-1>



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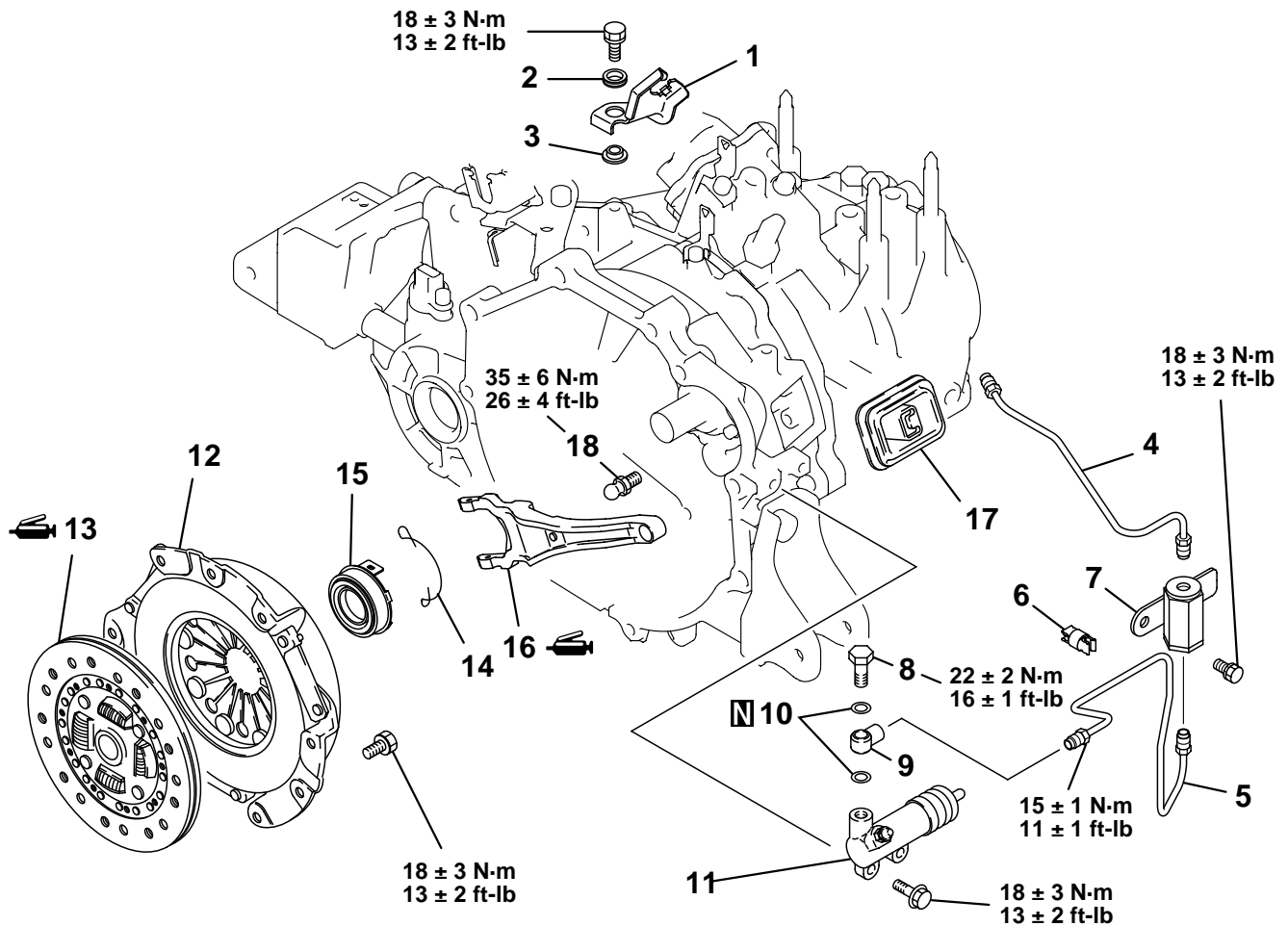
Removal steps

1. CLUTCH FLUID LINE BRACKET
2. INSULATOR
3. WASHER
4. CLUTCH TUBE
5. UNION BOLT
6. UNION
7. GASKET
8. CLUTCH RELEASE CYLINDER

Removal steps (Continued)

- >>B<< 9. CLUTCH COVER
>>B<< 10. CLUTCH DISC
11. RETURN CLIP
12. CLUTCH RELEASE BEARING
<<A>> >>A<< 13. RELEASE FORK
14. RELEASE FORK BOOT
15. FULCRUM

<F5M42-2>



AK302278AB

Removal steps

1. CLUTCH FLUID LINE BRACKET
2. INSULATOR
3. WASHER
4. CLUTCH TUBE
5. CLUTCH TUBE
6. TUBE CLIP
7. CLUTCH ORIFICE
8. UNION BOLT
9. UNION

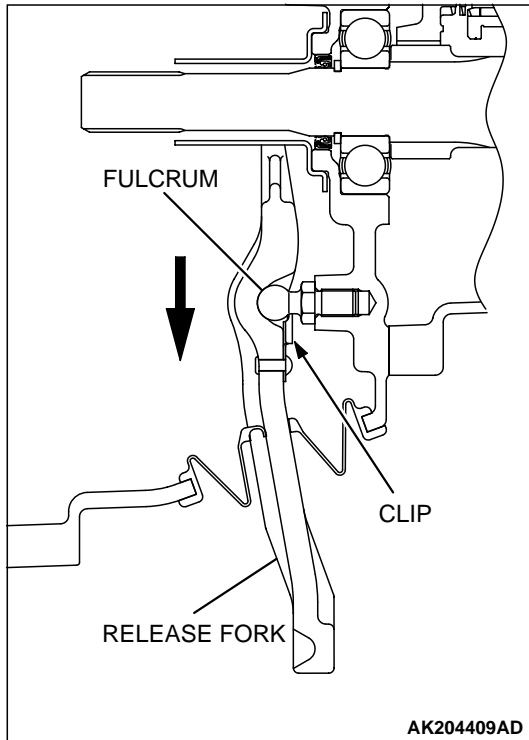
Removal steps (Continued)

10. GASKET
11. CLUTCH RELEASE CYLINDER
12. CLUTCH COVER
13. CLUTCH DISC
14. RETURN CLIP
15. CLUTCH RELEASE BEARING
16. RELEASE FORK
17. RELEASE FORK BOOT
18. FULCRUM

REMOVAL SERVICE POINT

<<A>> RELEASE FORK REMOVAL

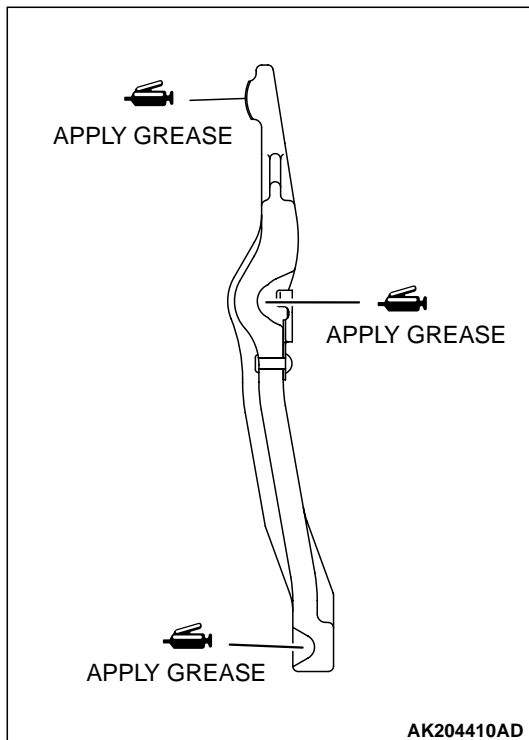
Move the release fork in the direction shown to remove the clip from the fulcrum.



INSTALLATION SERVICE POINTS

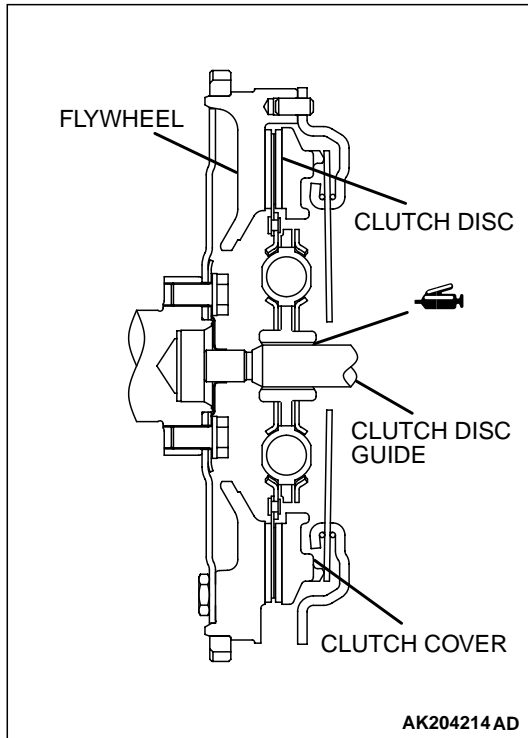
>>A<< RELEASE FORK INSTALLATION

1. Apply Mitsubishi genuine grease part number 0101011 or equivalent to the illustrated positions of the release fork.
2. Install the release fork to the fulcrum.



**>>B<< CLUTCH DISC AND CLUTCH COVER
INSTALLATION**

1. Apply Mitsubishi genuine grease part number 0101011 or equivalent to the clutch disc splines and rub it in the splines with a brush.
2. Using the clutch disc guide to position the clutch disc on the flywheel.
3. Install the clutch cover onto the flywheel.



CLUTCH INSPECTION

M1212001100122

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 (0.020 inch)
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.

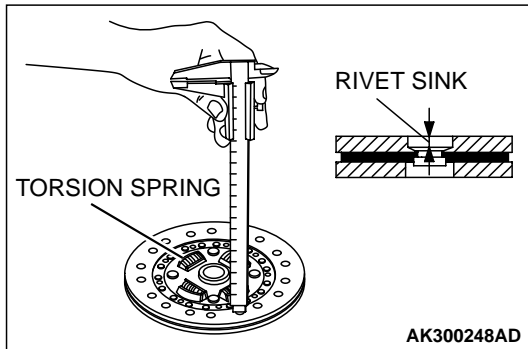
1. Check the facing for loose rivets, uneven contact, evidence of seizure, or deposited oils and greases. If defective, replace the clutch disc.

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.

Minimum limit: 0.3 mm (0.012 inch)

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.

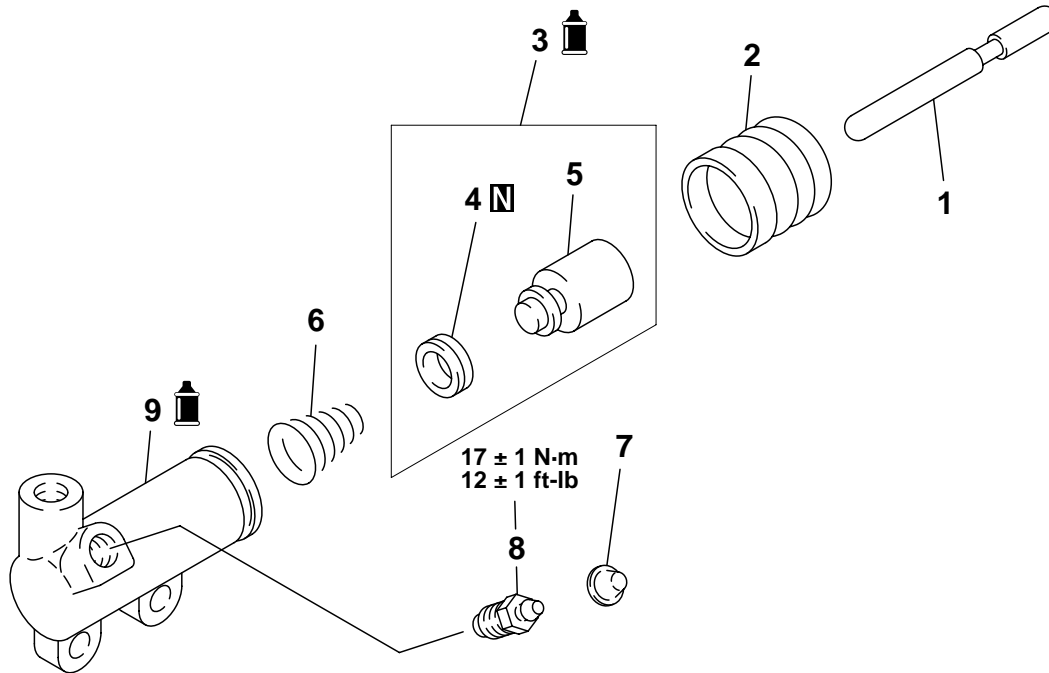
RELEASE FORK

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

CLUTCH RELEASE CYLINDER

DISASSEMBLY AND ASSEMBLY

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DISASSEMBLY STEPS

<<A>> >>A<<

1. PUSH ROD
2. BOOT
3. PISTON ASSEMBLY
4. PISTON CUP
5. PISTON

DISASSEMBLY STEPS

6. CONICAL SPRING
7. CAP
8. AIR BLEEDER
9. RELEASE CYLINDER

DISASSEMBLY SERVICE POINT

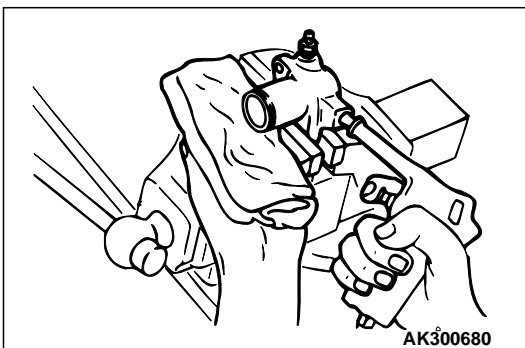
<<A>> PISTON ASSEMBLY REMOVAL

1. Cover with a shop towel to prevent the piston from popping out.

CAUTION

Apply compressed air slowly to prevent brake fluid from splashing.

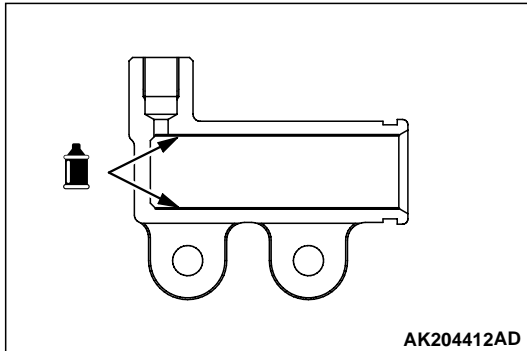
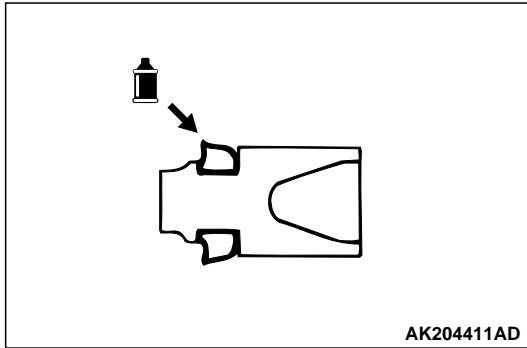
2. Apply the compressed air into the tube mounting hole to remove the piston assembly.



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ASSEMBLY SERVICE POINT**>>A<< PISTON ASSEMBLY INSTALLATION**

1. Apply brake fluid SAE J1703 (DOT3) to the piston cup and inner surface of the release cylinder.
2. Insert the piston assembly into the release cylinder.

**CLUTCH RELEASE CYLINDER INSPECTION**

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PISTON CUP

Check the lip of piston cup for scratch. If it is scratched, check the inner surface of the release cylinder for scratches.

RELEASE CYLINDER

Check the inner surface of the release cylinder for scratches or abnormal wear, replace if necessary.

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

M1212001800132

ITEMS	SPECIFICATIONS
Clutch fluid line bracket bolt	18 ± 3 N·m (13 ± 2 ft-lb)
Clutch tube flare nut	15 ± 1 N·m (11 ± 1 ft-lb)
Clutch orifice mounting bolt <F5M42-2>	18 ± 3 N·m (13 ± 2 ft-lb)
Union bolt	22 ± 2 N·m (16 ± 1 ft-lb)
Clutch release cylinder mounting bolt	18 ± 3 N·m (13 ± 2 ft-lb)
Clutch cover mounting bolt	18 ± 3 N·m (13 ± 2 ft-lb)
Fulcrum	35 ± 6 N·m (26 ± 4 ft-lb)

GENERAL SPECIFICATIONS

M1212000200160

ITEMS	SPECIFICATIONS
Clutch operating method	Hydraulic type
Clutch disc type	Single dry disc type
Clutch disc size OD x ID mm (in) <2.0L engine>	215 x 140 (8.46 x 5.51)
Clutch disc size OD x ID mm (in) <2.4L engine>	230 x 155 (9.60 x 6.10)
Clutch cover type	Diaphragm spring type
Clutch cover setting load N (lb) <2.0L engine>	4,510 (1,014)
Clutch cover setting load N (lb) <2.4L engine>	5,200 (1,169)

SERVICE SPECIFICATIONS

M1212000300134

ITEMS	LIMIT
Clutch disc facing rivet sink mm (in)	Minimum 0.3 (0.012)
Diaphragm spring end height difference mm (in)	0.5 (0.020)

LUBRICANTS

M1212000400142

ITEMS	SPECIFIED LUBRICANTS
Clutch disc splines	MITSUBISHI genuine grease Part Number 0101011 or equivalent

NOTES