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# CLUTCH - 18

PARTS CATALOG,  
SERVICE MANUAL &  
SERVICE TIME  
SCHEDULE CODE

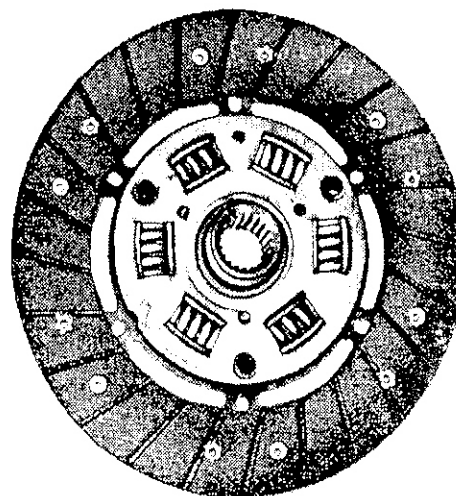
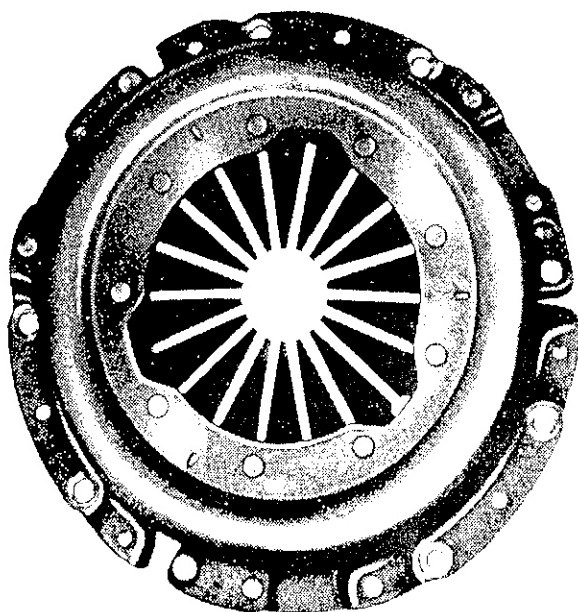
		PAGE
18	Specifications .....	18-1
	Torque Specifications .....	18-1
181.01	Clutch Release Control .....	18-3
181.05	Clutch .....	18-5
18A	Service Tools .....	18-7

## SPECIFICATIONS

Type .....	single plate, dry	
Release mechanism .....	diaphragm spring	
Control .....	mechanical	
Clutch disc .....	with friction linings	
Lining O. D. ....	8.307	(215 mm)
Lining I. D. ....	5.708	(145 mm)
Max. runout of clutch disc linings .....	.006	(.15 mm)
Clutch pedal free travel, corresponding to a clearance of .079" (2 mm) between diaphragm spring and release sleeve, about. ....	.984	(25 mm)
Travel of diaphragm spring, corresponding to a pressure plate displacement not less than .067" (1.7 mm) .....	.315	(8 mm)

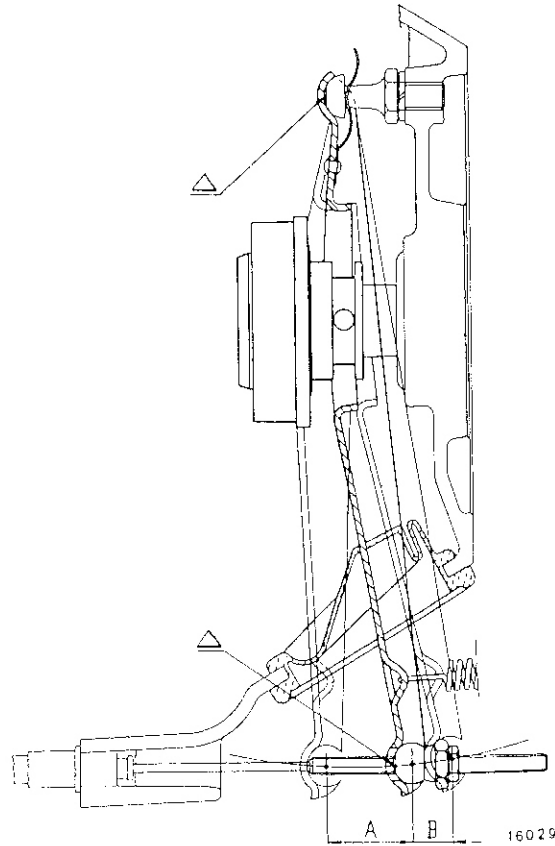
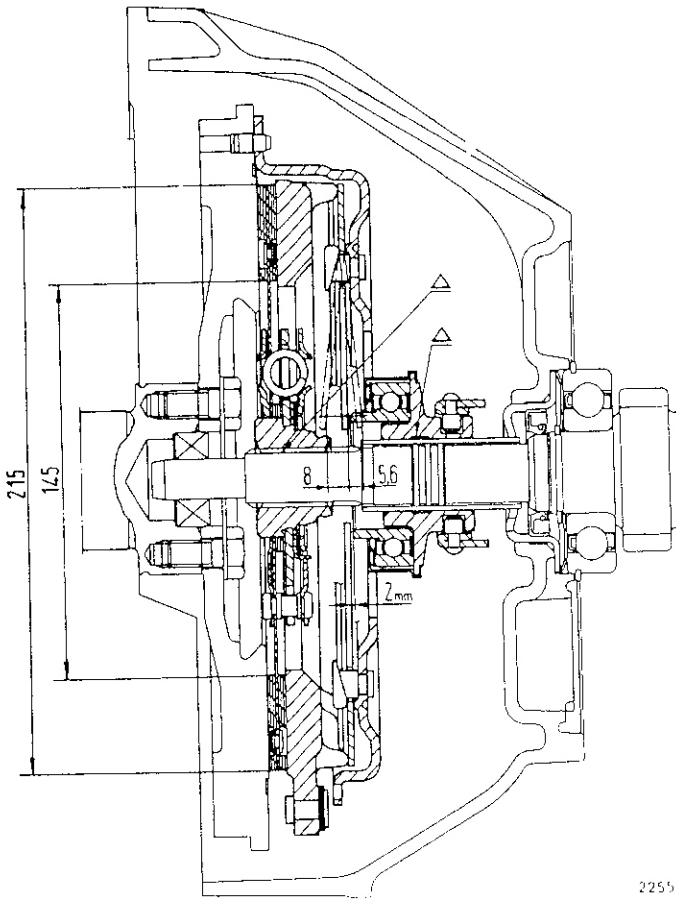
## TORQUE SPECIFICATIONS

DESCRIPTION	THREAD (METRIC)	N·m	TORQUE	
			FT. LB.	Kgm
Bolt, clutch to flywheel .....	M8	29.4	22	3



CLUTCH COVER AND CLUTCH DISC

8-1



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16029

- .079" (2 mm) = Gap to be obtained by adjusting release control cable.
- .220" (5.6 mm) = Maximum permissible displacement from wear of driven plate linings.
- .315" (8 mm) = Release travel.

- A = 1.181" (30 mm) approx. Release travel corresponding to a minimum driven plate movement of .067" (1.7 mm).
- B = .669" (17 mm) approx. Displacement of release lever after wear of driven plate linings.

Δ = Lubrication points: FIAT KG 15 grease.

### SPECIFICATIONS AND FEATURES

### CLUTCH CABLE REMOVAL AND INSTALLATION

Raise vehicle on lift.

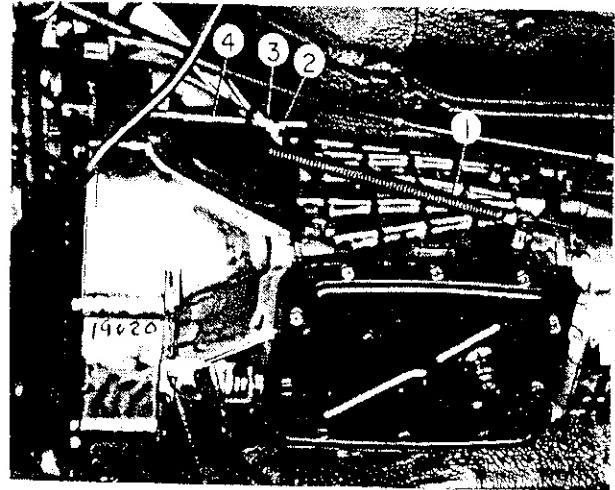
Remove clutch lever return spring (1).

Remove locknut (2) and adjusting nut (3) from clutch cable (4).

Withdraw cable through clutch housing.

Lower vehicle.

1. Return spring 2. Locknut 3. Adjusting nut 4. Clutch cable

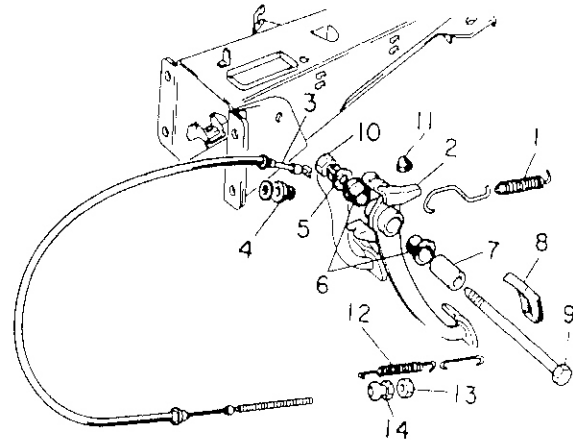


From driver's compartment, remove clutch pedal return spring (1).

Remove clutch cable (3) from clutch pedal (2).

From engine compartment pull clutch cable through firewall and out of vehicle. Installation is reverse of removal.

1. Return spring 2. Clutch pedal 3. Clutch cable 4. Bushing  
5. Spacer 6. Bushing 7. Spacer 8. Rubber pedal cover 9. Bolt  
10. Nut 11. Pedal stop 12. Return spring 13. Locknut  
14. Adjusting nut



### INSPECTION

Check that cable moves freely inside casing, that threaded end is not damaged and that half-moon block end is not worn. Replace if damaged.

Replace return springs if weak.

Replace firewall rubber bushing if damaged.

## CLUTCH ASSEMBLY

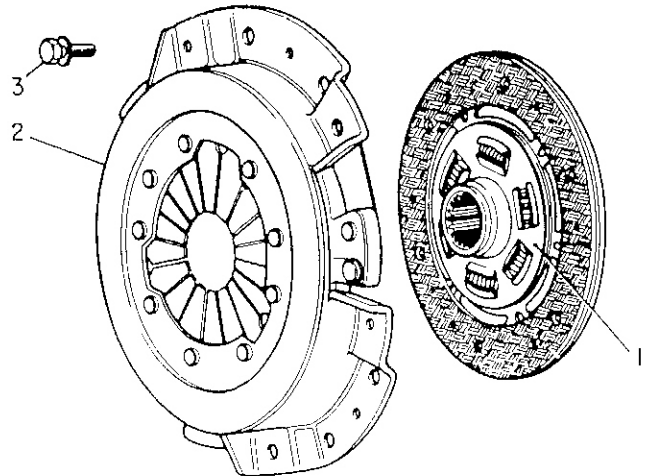
### REMOVAL

Remove transmission (refer to Transmission Section 21).

If same clutch assembly is to be installed, mark position on flywheel so that correct balance will be maintained upon reassembly.

Remove clutch assembly (1 and 2) by gradually (a few turns each bolt) removing six bolts (3).

1. Disc 2. Pressure plate 3. Bolt



### INSPECTION

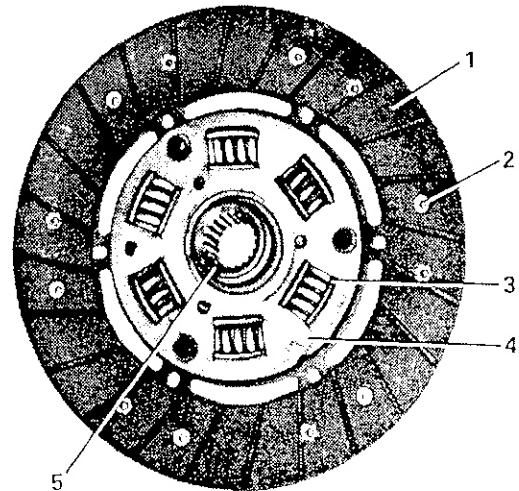
#### Clutch Disc

Check that surface of friction material (1) is not less than 1/16 in. from rivet heads (2), not cracked nor glazed.

Check that disc is not warped.

Check that springs (3), plate (4), or splines (5) are not damaged. Replace disc if damaged.

1. Friction material 2. Rivet head 3. Spring 4. Plate 5. Splines



#### Pressure Plate

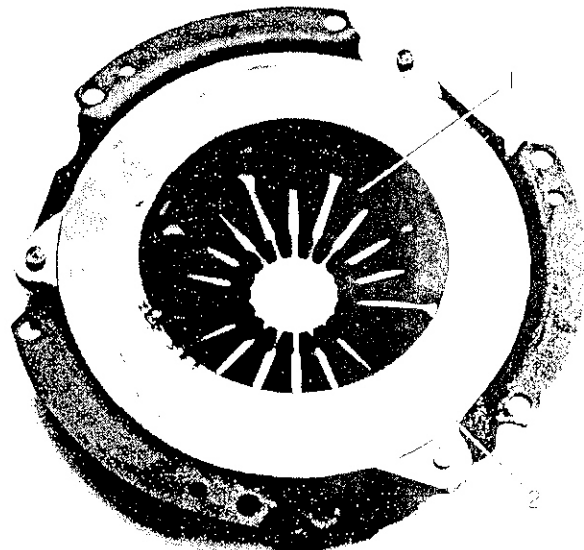
Check that fingers (1) of diaphragm spring are not broken, cracked, or misaligned.

Check facing (2) for heat cracks, scoring or burns.

For minor imperfections, dress with medium grit emery cloth. Replace if damaged.

Check mounting hardware for damage. Replace if damaged.

1. Fingers 2. Facing



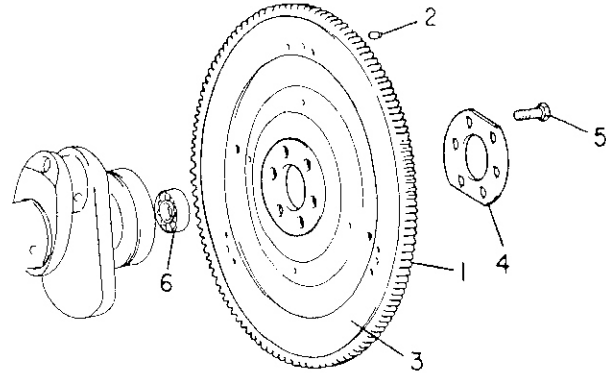
**Flywheel**

Inspect flywheel (3) for grooves, gauling, burns or heat cracks. For minor imperfections, lightly dress with medium emery cloth. For severe damage, replace flywheel.

Check mounting bolt holes for stripped threads. Repair with helical insert. Do not use oversize bolts as balance will be affected.

Check pilot bearing (6) for damage. Replace if damaged.

Check ring gear (1) for damaged teeth. Replace if considered not serviceable.



1. Ring gear 2. Pin 3. Flywheel 4. Plate 5. Bolt 6. Pilot bearing

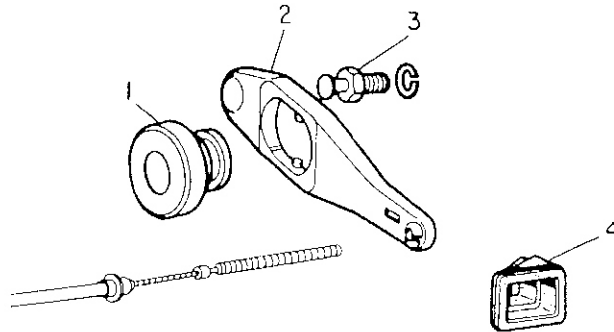
**Throwout Bearing and Clutch Lever**

Check throwout bearing (1) for serviceability. Replace if worn.

Check clutch lever (2) pivot points for excessive wear or damage. Replace if necessary.

Check end of pivot bolt (3) for excessive wear. Replace if worn.

Check dust boot (4) for deterioration. Replace if damaged.



1. Throwout bearing 2. Clutch lever 3. Pivot bolt 4. Dust boot

**INSTALLATION**

If flywheel was removed, torque mounting bolts to 105 ft lb (14.5 kgm).

Make sure clutch and flywheel surfaces are clean. If old clutch assembly is reinstalled, align marks noted in removal.

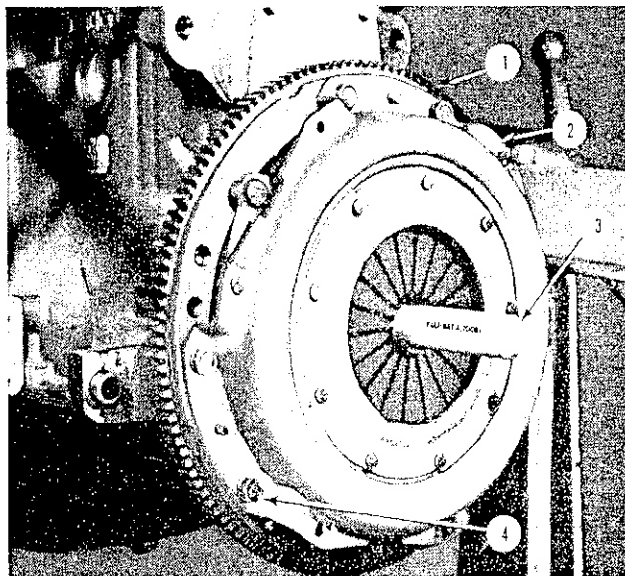
With protruding part of disc hub facing away from flywheel (1), loosely assemble clutch assembly (2) to flywheel.

Using pilot tool A.70081 (3), center disc in pressure plate.

Gradually torque mounting bolts (4) to 22 ft lb (3 kgm). Remove pilot tool.

Lightly coat transmission pilot shaft with white grease, then reinstall transmission as specified in Transmission Section 21.

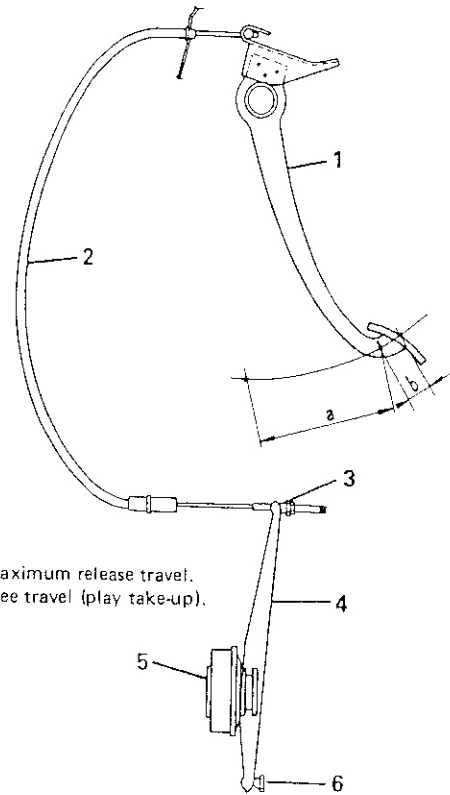
1. Flywheel 2. Clutch assembly 3. Pilot tool A.70081 4. Bolt



## ADJUSTMENT

Loosen locknut and tighten or loosen adjusting nut (3) to obtain free travel of approximately 1 in (25 mm) as shown (dimension "b").

1. Clutch pedal 2. Clutch cable 3. Adjusting nut 4. Clutch lever  
5. Throwout bearing 6. Pivot bolt



a = 4.72" (120 mm approx. Maximum release travel.  
b = .984" (25 mm) approx. Free travel (play take-up).

## Service Tools

NOTE: Number given in parentheses is Kent Moore catalogue number.

A.70081 (J28091) Clutch centering pilot

