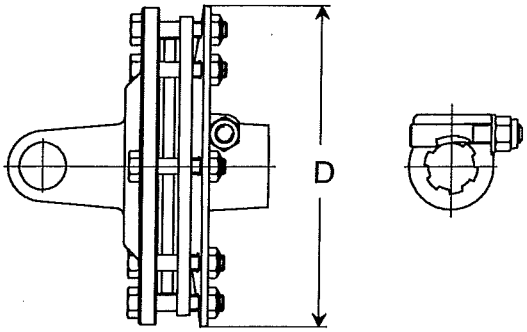
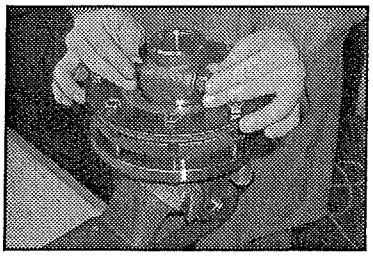
FV FRICTION CLUTCH

TYPES and DIMENSIONS

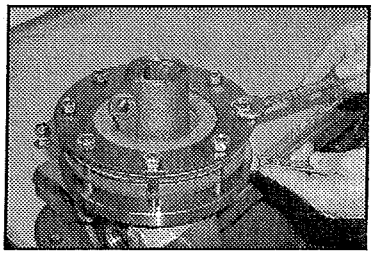


	D = 155 mm (6.10")	D = 180 mm (7.08")	D = 202 mm (7.95")
2 LININGS	**FV22 FV22R**	**FV32 FV32R**	**FV42 FV42R**
4 LININGS	-	**FV34 FV34R**	**FV44 FV44R**

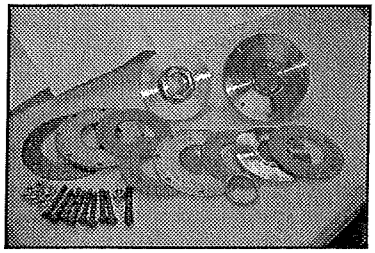
DISASSEMBLY



Remove the taper pin.

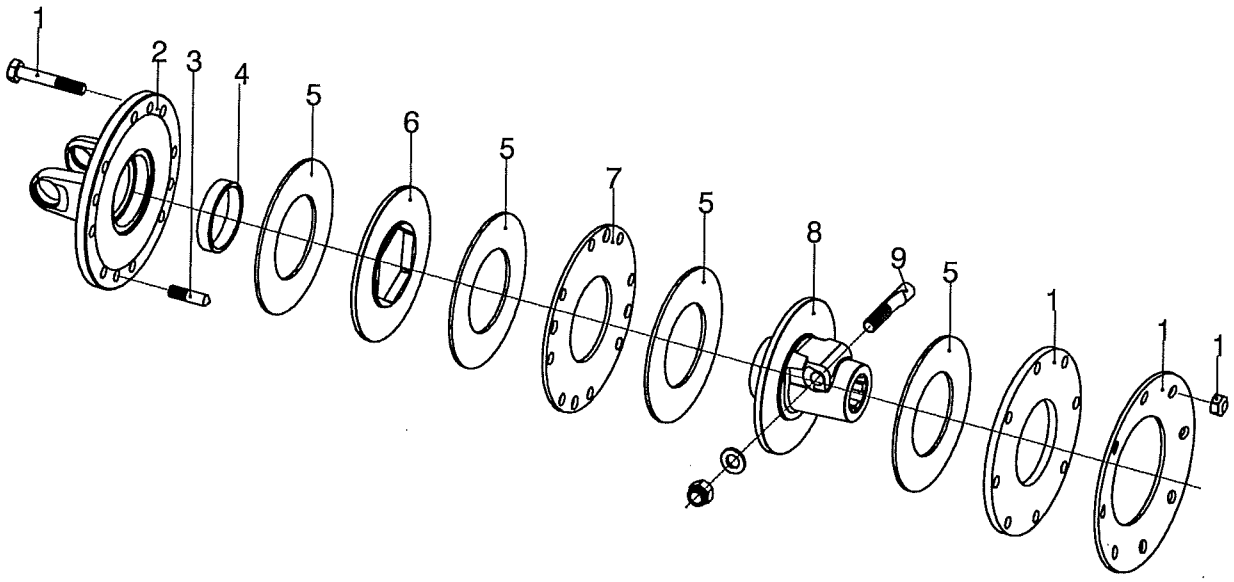


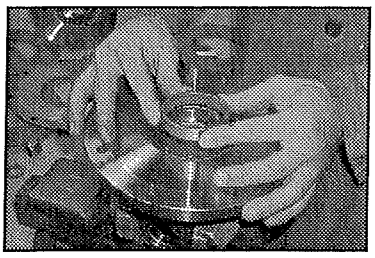
Loosen the bolts progressively (not one a time completely) to reduce the spring deformation uniformly.



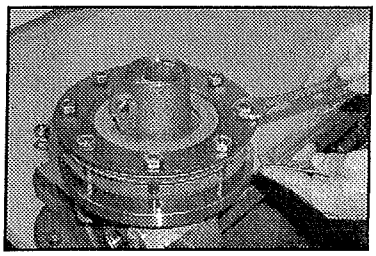
Disassemble the clutch completely.
Check the condition of the friction linings and the other parts.
Original thickness of friction linings is 3.2 mm: it is recommended to replace them when the wear reduces thickness to 2.5 mm.
Clean up all contact surfaces and replace any damaged components before assembly.

ASSEMBLY

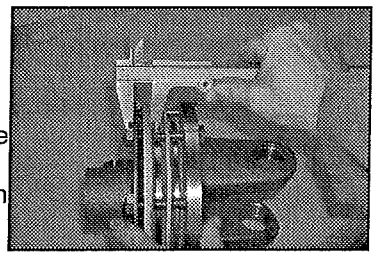




Apply a grease film on the bushing (4) and install it in the flange yoke (2).
Assemble the other parts of the clutch as shown in the picture above.
Clean up all contact surfaces and replace any damaged components before assembly.



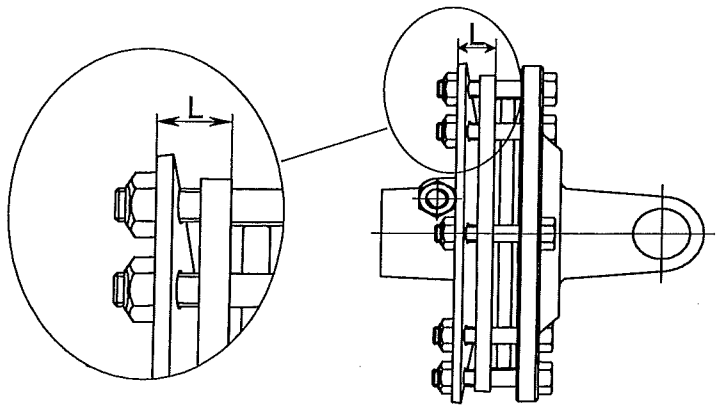
Install the eight bolts.
Tighten the nuts until they get in contact with the spring.
Tighten the bolts progressively (i.e. half a turn each at a time) in order to deform the spring uniformly to the proper height.
The table in the following page shows the spring height corresponding to the torque setting for each type of clutch.



Check the spring height as shown in the picture.
Measure the dimension **L** using a sliding gauge near each bolt and tighten or loosen the bolt to achieve the dimension **L** listed in the table.
The spring height **L** listed in the table is the average of the measures taken near each bolt.
The spring height can be included in a tolerance range between **L** and **L**-0.4 mm.

TORQUE SETTING – SPRING HEIGHT TABLE.

Clutch type	Torque setting		Belleville spring			Height **L**	
			Part number	Thickness			
	Nm	in.lb		mm	in	mm	in
FV22 – FV22R	400	3450	367003850	3.25	0.13"	16.3	0.64"
	500	4430				15.8	0.62"
	600	5310	367004850	4.00	0.16"	16.2	0.64"
	700	6200				16.0	0.63"
	800	7080				15.5	0.61"
FV32 – FV32R	500	4430	367009860	3.50	0.14"	17.7	0.70"
	600	5310				17.2	0.68"
	750	6640				16.4	0.64"
	800	7080	367006860	4.00	0.16"	18.5	0.73"
	900	7970				18.2	0.72"
	1000	850				17.8	0.70"
FV34 – FV34R	800	7080	367009860	3.50	0.14"	18.0	0.71"
	1000	8850				17.7	0.70"
	1200	10650				17.2	0.68"
	1500	13280				16.4	0.65"
	1600	14160	367006860	4.00	0.16"	18.5	0.73"
	1800	15930				18.2	0.72"
	2000	17700				17.8	0.70"
FV42 – FV42R	650	5750	367009870	4.25	0.17"	19.1	0.75"
	750	6640				18.7	0.73"
	850	7530				18.4	0.72"
	900	7970				18.2	0.71"
	1000	8850	367006870	4.50	0.18"	20.1	0.79"
	1100	9740				19.9	0.78"
	1200	10620				19.7	0.77"
	1300	11510				19.4	0.76"
	1400	12390				19.1	0.75"
FV44 – FV44R	1300	11510	367009870	4.25	0.17"	19.1	0.75"
	1450	12830				18.7	0.73"
	1700	15050				18.4	0.72"
	1800	15930				18.2	0.71"
	2000	17700	367006870	4.50	0.18"	20.1	0.79"
	2200	19470				19.9	0.78"
	2400	21240				19.7	0.77"



Detail of the spring height **L**.

The spring height **L** listed in the table is the average of the measured taken near each bolt.

The spring height can be included in a tolerance range between **L** and **L**-0.4 mm.