fiat f100 tractor repair manual



**TORQUE DATA**

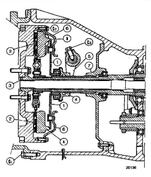
| DESCRIPTION | Thread size | Torque | | |
|---|---|---|---|---|
| | | Nm | kgm | ft lb |
| Capscrews and nuts, clutch case to engine ($C_1$) ..... | M 12 x 1.25 | 88 | 9 | 65 |
| Capscrews, clutch to engine flywheel ($C_2$) ..... | M 8 x 1.25 | 23 | 2.4 | 17.5 |
| Screws, shift forks ($C_3$) ..... | M 16 x 1.5 | 157 | 16 | 116 |

**SERVICE TOOLS**

**ATTENTION** – Operations included in this section of the Manual must be performed using the **ESSENTIAL** tools further evidenced by the identification code (**X**).
Besides, to work safely and achieve the best technical results, with additional savings of time and fatigue, these mandatory tools should be used in conjunction with the suggested special tools listed below and further integrated with the self–made ones for which you will find the necessary working drawings and specifications directly on this manual.

List of the special tools necessary to perform service operations covered by this section of the Manual:

**292320** Workshop stand, tractor disassembly
**X 293974** Spigot, clutch centering (on tractor)
**292866** Pilot pins, transmission housing/engine alignment



**Longitudinal sectional view of LUK 13" and 14" clutches**

a. LUK 13" clutch – b. LUK 14" clutch – $C_1$. Capscrew, clutch case to engine – $C_2$. Capscrew, clutch to engine flywheel – $C_3$. Lockscrew, clutch release levers – 1. Diaphragm spring – 2. Master clutch plate – 3. Splined hub, PTO sit clutch shaft control – 4. Throw–out collar and thrust bearing – 5. Throw–out collar (4) shift fork – 6. Clutch cover – 7. Fixed collar cover.

**ENGINE CLUTCH TROUBLE–SHOOTING CHART**

| Fault | Diagnosis | Correction |
|---|---|---|
| Clutch slips | 1. Lack of clearance (G, page 18–12) between rod and hydraulic pump piston. | Replace pump. |
| | 2. Disk (2) and/or pressure plate and flywheel wear. | Replace disk and the clutch, if necessary, and grind the flywheel. |
| | 3. Weak or unserviceable diaphragm spring (1). | Replace clutch. |
| | 4. Oil or grease on clutch disk (2) facings. | Replace disk, eliminate the cause for the presence of lubricants inside the clutch compartment and thoroughly clean friction surfaces. |

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