

Solution Number: 14141

Solution Summary: SIB-M-90-11-25-2 - Replacement PTO Clutch Is Different Than Original. 108-175 Lawn Tractors

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90-11-25-2 (Linked To Pathways)

Complaint or Symptom :

SERVICE PTO CLUTCH SUBS TO (AM115090), WHICH LOOKS DIFFERENT THAN ORIGINAL. IT APPEARS TO HAVE A LARGER BEARING BORE.

Problem or Situation :

NONE. THE CLUTCHES ARE INTERCHANGEABLE EXCEPT FOR THE SHAFT KEY LENGTH.

Solution :

1. CUT OFF SHAFT KEY TO 0.88 IN. (22 MM) OR ORDER KEY M45460.
2. ADJUST PTO CLUTCH ARMATURE-TO-ROTOR AIR GAP TO 0.016 IN. (0.41MM). SEE TM1351, SECTION 40.
3. APPLY MPG2 GREASE TO THE CRANKSHAFT.
4. INSTALL TRANSMISSION DRIVE SHEAVE WITH LONG SIDE OF HUB TOWARD ENGINE. INSTALL SHAFT KEY. INSTALL PTO CLUTCH.

NOTE: ON SOME EARLIER TRACTORS, THE TRANSMISSION DRIVE SHEAVE DID NOT HAVE A LONG HUB: A SPACER WAS USED INSTEAD. INSTALL SPACER BETWEEN ENGINE AND SHEAVE.

5. KAWASAKI ENGINES:

- FASTEN CLUTCH TO CRANKSHAFT WITH (M74824) SPRING WASHER (CUPPED SIDE TOWARD CLUTCH) AND (19M7742) CAP SCREW (M10 X 65 GRADE 10.9).

- USE LOCTITE (MEDIUM STRENGTH) ON THREADS OF CAP SCREW.

BRIGGS AND STRATTON ENGINES:

- FASTEN CLUTCH TO CRANKSHAFT WITH (M74824) SPRING WASHER (CUPPED SIDE TOWARD CLUTCH) AND (19H3007) CAP SCREW (7/16 X 2 1/2 IN. GRADE 5).

- DO NOT USE LOCK WASHER.

- USE LOCTITE (MEDIUM STRENGTH) ON THREADS OF CAP SCREW.

6. TIGHTEN CAP SCREW TO 55 LB-FT (75 N/M).

Additional Information :

ORIGINAL PTO CLUTCH (OGURA) HAS:

- A 1.0 IN. (25.4 MM) BORE ON THE ENGINE SIDE.

- A 0.81 IN. (20.5 MM) BORE ON THE SHEAVE SIDE.

- THE SMALL BORE DOES NOT CAUSE A PROBLEM AS THE ENGINE CRANKSHAFT DOES NOT EXTEND FAR ENOUGH TO REACH THE SMALL BORE IF THE CORRECT TRANSMISSION DRIVE SHEAVE IS INSTALLED BETWEEN THE ENGINE AND PTO CLUTCH.

SERVICE PTO CLUTCH (WARNER) HAS:

- A 1.00 IN. (25.4 MM) BORE ON BOTH SIDES.

- A SHAFT KEY BUILT IN, SO A SHORTER KEY IS REQUIRED TO DRIVE ONLY THE TRANSMISSION SHEAVE.

PARTS:

PART NAME PART NUMBER

PTO CLUTCH AM122969

SHAFT KEY M45460

SPRING WASHER M74824

CAP SCREW (M10 X 65 GRADE 10.9) 19M7742

CAP SCREW (7/16 X 2 1/2 IN. GRADE 5) 19H3007