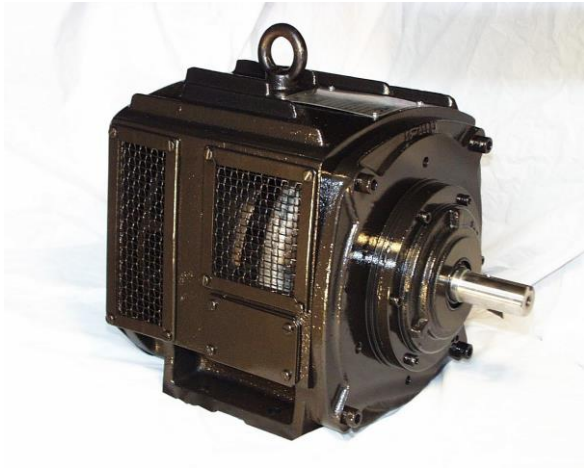


TORSPEC™ EDDY CURRENT BRAKE INSTALLATION AND MAINTENANCE INSTRUCTIONS

TORSPEC MODEL 132TCD/6 METRIC



WARNING

*Disconnect all incoming power before working on this equipment.
Follow power lockout procedures.
Use extreme caution around electrical equipment.
Do not touch the circuit board while power is applied.*



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Manufacturers & Suppliers of World Class Quality Variable Speed Drives & Controls

TORSPEC MODEL 132TCD/6 DISMANTLING INSTRUCTIONS

CAUTION - BE SURE TO DISCONNECT POWER AND FOLLOW LOCK-OUT PROCEDURES AS SPECIFIED BY LAW **BEFORE** OPENING ANY TERMINAL BOXES OR TOUCHING ANY WIRING.

D1: Open the terminal box and disconnect the drive wires. **EXTREME CAUTION** should be exercised with the small wires going to the tach generator, as they can be easily broken.

Hint: (Look for broken wires, or poor connections.)

D2: Remove back plate by removing 4 bolts and grills. Then remove the 2 setscrews in rotor hub and slide the torque tube off the shaft.

D3: Remove the four bolts holding the output assembly to the main casing. Remove output assembly while feeding wires through the hole in casing. Once the wires are free, the output assembly can be completely removed.

Hint: (Look for physical damage, remove any build up of foreign material on polewheel which could cause binding.)

D4: The polewheel is removed by removing the bolt in the side that attaches it to the stator body.

D5: The coil is held in place by a circlip at the back and a silicone sealant at the front. After removing the circlip, it is necessary to use a thin blade to break the sealant between the coil form and the front of the output assembly. **Care must be used, as the former is breakable.**

Hint: (Look for physical damage and signs of overheating. The coil should be approximately 20 ohms, depending on size. Low resistance will cause the control fuses to blow, too high will result in poor performance.)

D6: To separate the coil and tach wires, cut the waxed string, and **carefully** slide the rubber tube off. If the tach is being replaced, a string or small wire tied to the old tach wires before removing can be used to assist pulling in the new wires.

Hint: (Look for broken wires, tach should be 220 ohms.)

D7: Remove the tacho cover plate and tach generator stator. The tacho armature is held in place by a friction fit star tolerance ring and can be pulled off. **Be sure not to damage the magnetic strip.**

D8: Remove the rear circlip from the shaft, then the shaft out of the assembly, through the output shaft side by pressing on the polewheel side of the shaft.

D9: The rear bearing that is still in the housing and the front bearing still on the shaft can be removed after the retaining clips have been taken off.

TORSPEC MODEL 132TCD/6 ASSEMBLY INSTRUCTIONS

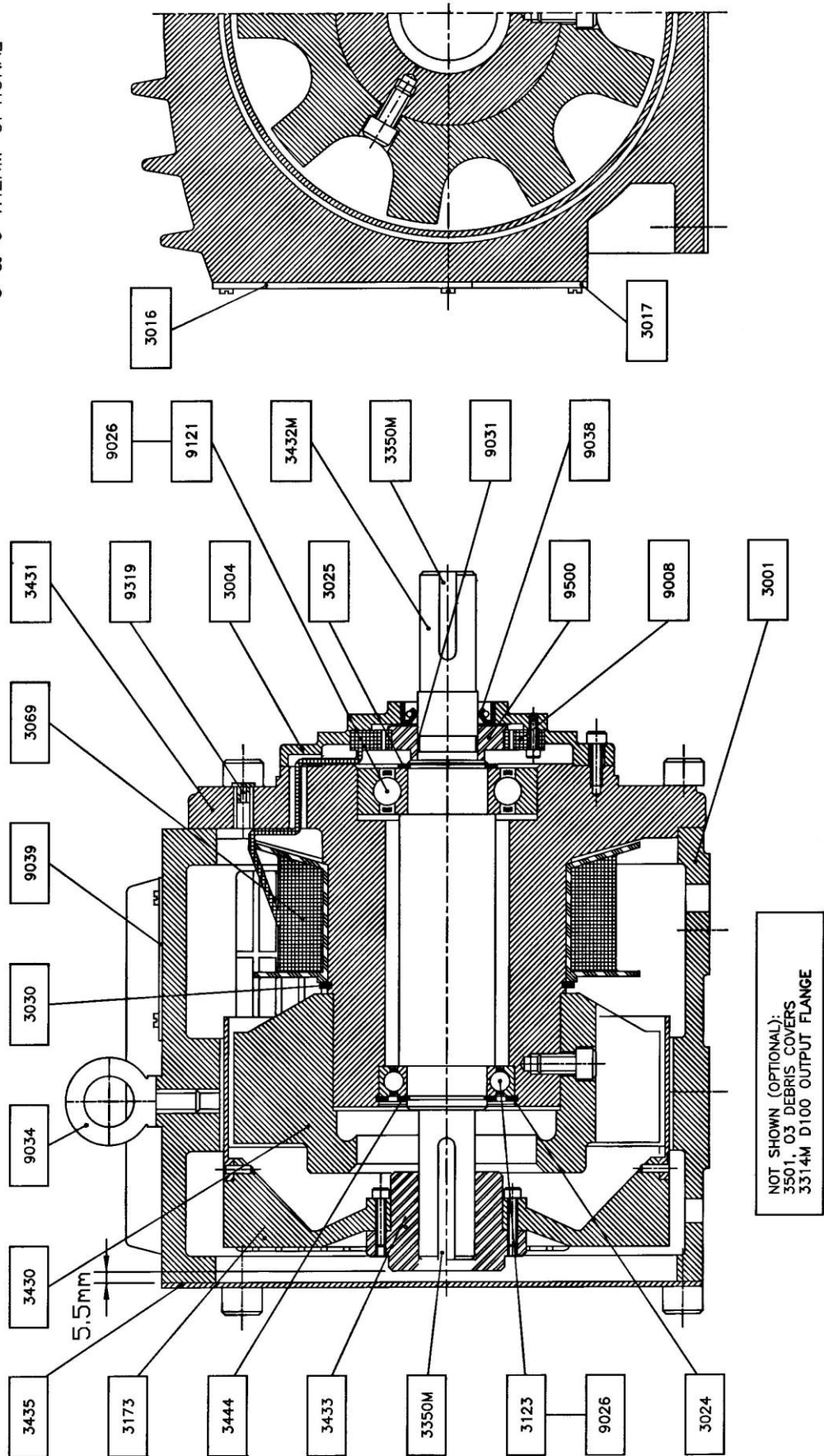
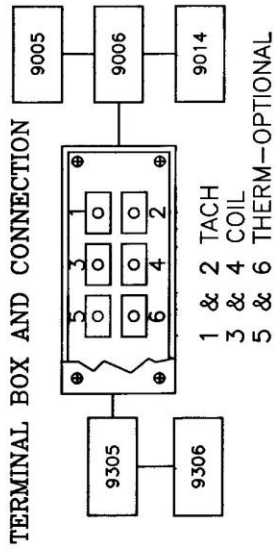
USE A THREAD LOCKING COMPOUND ON ALL BOLTS

- A1: Mount the pre-greased rear bearing into the output assembly by pressing on the outer and inner races with a press. ***Do not hammer.*** Insert the rear bearing circlip into the stator body to retain the bearing. Press the front bearing onto the shaft with the press. Mount the front bearing circlip onto the shaft and insert the shaft assembly into the output assembly from the front side, by pressing on the inner and outer front bearing races, while supporting the rear bearing. Place rear bearing circlip onto the shaft.
- A2: Mount the star tolerance ring and tacho armature onto the shaft. Feed the tach wires through the hole in the output assembly; slide the tacho housing over the shaft and bolt to the output assembly. ***Be sure not to pinch the tach wires.***
- A3: Apply silicone rubber to the front of the main coil and push the coil onto the output assembly. Install the coil circlip. Push the tach wires as close to the coil as possible, then the coil wires into the rubber sleeving. Tie off with a piece of waxed string.
- A4: Bolt the polewheel onto the stator body.
- A5: Insert the output assembly into the casing, while feeding the wires through the hole. Bolt into place on the main casing.
- A6: Fit the rotor hub to the torque tube assembly and then fit onto shaft. The distance between the hub end surface (face) and the shaft end surface (face) should be zero. Refer to the assembly drawing.
- A7: Fit back plate to the back of casing. Fit grills.
- A8: For terminal box fitting.
- 1) Fit gasket
 - 2) Fit terminal box lid
 - 3) Fit gasket
 - 4) Fit lid
 - 5) Fit 4 – M5 self locking nuts

TORSPEC MODEL 132TCD/6 PARTS LIST

PART NO.	DESCRIPTION
3001	CASING
3004	TACH GENERATOR HOUSING FIXED BY 6-M6X20 SOCKET HD. CAP
3123	BEARING REAR 60082Z
3024	BEARING REAR CIRCLIP
3025	BEARING FRONT CIRCLIP
3030	COIL RETAINING RING
3069	HP COIL FIXED BY PART NO. 3030
3173	TORQUE TUBE/ROTOR ASSY 4 POLE FIXED BY 4-M6X30 SOCKET HD. CAP
3116	MESHED GRILLES SMALL INLET FIXED BY 4-M6X30 SOCKET HD. CAP
3117	MESHED GRILLES LARGE OUTLET FIXED BY 4-M5X8 PAN HD SLOTTED
3430	POLEWHEEL FIXED BY 1- M10X25SHC
3431	STATOR BODY ASSY. FIXED BY 4-M10X35 SOCKET HD. CAP
3433	ROTOR HUB 28MM FIXED BY 1-M6X10 CUP POINT GRUB SCREW 1- M6X10 CONE POINT GRUB SCREW
3435	BACKPLATE FIXED BY 8-8X16SHC
3436	GASKET, RUBBER
3444	REAR BEARING CIRCLIP INNER
9005	TERMINAL BOX FIXED BY 4-M5X60 STUD, 4-M5 RUBBER WASHERS, 4-M5 FLAT WASHERS, 4-M5 LOCKNUT
9006	TERMINAL BOX LID X2
9008	TACH GENERATOR ASSY. FIXED BY 4-M4X16 SOCKET HD. CAP, 4-M4 FLAT WASHER
9014	TERMINAL BOX GASKET X3 FOR CODES H10, H20, N1, N2, T1, T2
9121	BEARING FRONT 6308Z
9026	BEARING GREASE REFLEX 2 HIGH TEMPERATURE GREASE OR EQUIVALENT
9031	STAR TOLERANCE RING
9034	EYEBOLT M12
9038	OIL SEAL 30X47X7 DOUBLE LIP
9039	NAMEPLATE FIXED BY 4-M6X3.5MM TAPPING SCREWS
9305	TERMINAL BLOCK 4 WAY FIXED BY 1-M5X16 SOCKET HD. CAP
9500	TACH ARMATURE FIXED BY PART NO. 9031
3350M	KEYSTOCK METRIC 8X7X40
3432M	METRIC SHAFT

TORSPEC MODEL 132TCD/6 PARTS DIAGRAM



TORSPEC MODEL 132TCD/6
 SEPTEMBER 2002