

Job Information

Job #: 141281 Date: January 3, 2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Toyota Motor#:

Name Plate Information

Manufacturer: Tasks was Enclosure : Open Drop Proof

(ODP)

Serial#: Model#:

Service Factor: Frame: 200CD

Horsepower/kW: 55kw Rated RPM: 1750

Volts 440 Volts 150

Amps 136 Amps 10.1

Fields

Winding Inspection

Armature

Identify winding disassembly & winding assembly.

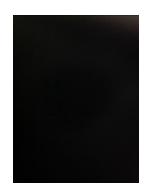
Armature diagram



IP diagram



Flds diagram



Comm diagram





Winding Inspection (Continued)

DC Drop Test				
Megohmmeter reading to ground @ 500 V DC		Armature		Shunt
		Interpole		Series
Nameplate field volts:	Nameplate amps:		Num coils:	
Resistance = Field votes:	/ Field amps:	=	0	
Total field resistance:	@	F/C correct to	25 degrees 0	

Test tolerances: For a DC drop Test +/- 5% from average; for an AC drop test +/- 10% from average.

Applied Voltage 1: DC/# of Coils 1: = Target Voltage/coil 1: 0

Applied Voltage 2: DC/# of Coils 2: = Target Voltage/coil 2: 0



DC Drop Test (Continued)

Match mark all coils clockwise beginning at the leads.

Voltage Applied

Shunt DC Voltage:	Shunt AC Vol	Shunt AC Voltage:			
Voltage Measured					
Coil #	DC	AC			
Coil 1					
Coil 2					
Coil 3					
Coil 4					
Coil 5					
Coil 6					
Coil 7					
Coil 8					
AVERAGE	2.11	17.46			
+5%	0	0			
-5%	0	0			



DC Drop Test (Continued)

Match mark all coils clockwise beginning at the leads.

Voltage Applied

A. Interpoles DC Voltage:	A. Interpoles AC Voltage:	
	Voltage Measured	

	Coil #	DC	AC
	Coil 1		
	Coil 2		
	Coil 3		
	Coil 4		
	Coil 5		
	Coil 6		
	Coil 7		
	Coil 8		
A	VERAGE	0.25	21.88
	+5%	0	0
	-5%	0	0



DC Drop Test (Continued)

Match mark all coils clockwise beginning at the leads.

Voltage Applied

B. Interpoles DC Voltage: B. Interpoles AC Voltage:		
	Voltage Measured	
Coil #	DC	AC
Coil 1		
Coil 2		
Coil 3		
Coil 4		
Coil 5		
Coil 6		
Coil 7		
Coil 8		
AVERAGE	0	0
+5%	0	0
-5%	0	0



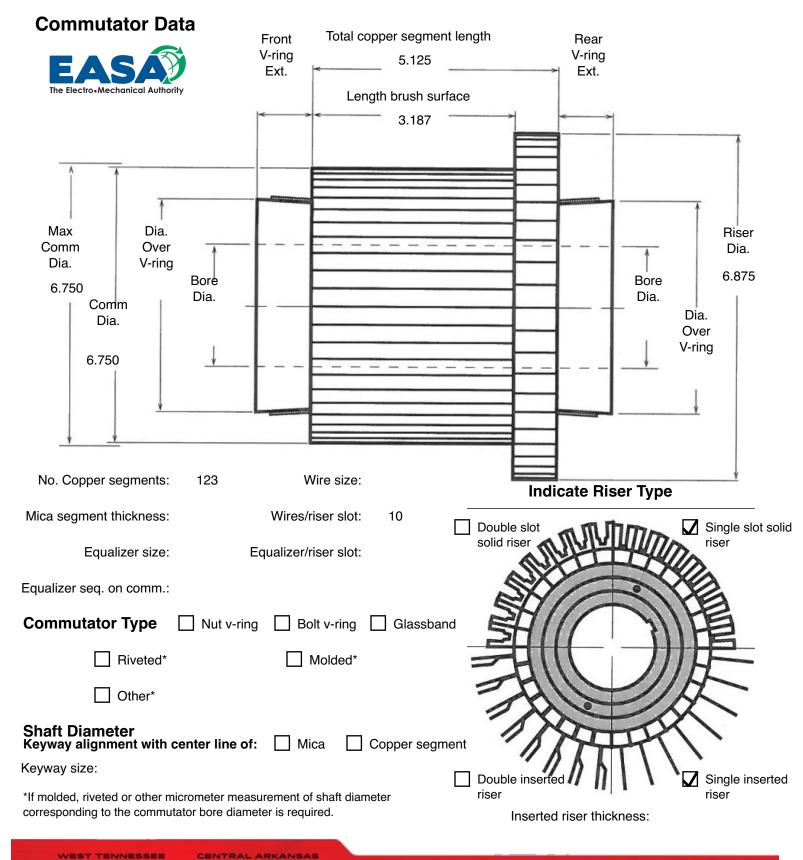
Conclusion

Service Tech name: Shawn

Service Tech signature:

7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301 CENTRAL ARKANSAS 6812 Lindsey Rd. Little Rock, AR 72206 Phone 501-375-9178 fax 501-375-4254







DC Machine Data Sheet



Armature Coil	Data				Winding Type
Slots: 41	Turns per coil: 1	21 Coil per slot:	2		☐ Shunt
Wire size:	Wires in mult.: 5	Wire type:	Wire weig	ght: 47 Lbs.	Series
Bars: 123	Slot span 1 to:	Comm span	1 to:		Compound
No. of equalizers:	Span 1 to:	Wire	size:		Interpoles: Yes
Knuckle: Stand	lard Double		Compensating Windi	ng	
Wound: Flat	☐ Edge	Wire size:	Turns per sl	ot:	Compensating or Pole Face Winding
Coil: Left h	and Right hand				Permanent Magnet
(1) (2) (3) (4) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	GOIL EXT.	DIA.	8 9 10 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Slot Dimensions A C A B C	Insul. class: Temp. Rise: Duty: Wave Winding Leads from slot 1 to bar: Leads from Slot to bar:
Field Coil Dimer TYPE A Shunt Series Interpoles	nsions B C	D E W	E	s Part Numbers	Lap Winding Leads from slot 1 to bar: Leads from Slot to bar:

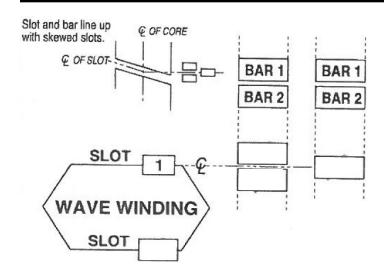


DC Machine Data Sheet (Continued)

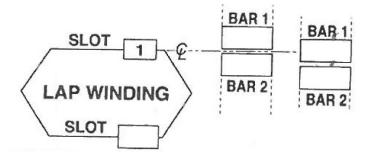


Field Coil Winding Data

Туре	No. Coils	No. Cir.	Turns Per Coil	Mult.	Wire Size & Type	Lbs. Per Coil	25 Ohm Per Coil DC
Shunt							
Series							
Interpoles							



Slots and bars are numbered 1-2-3 etc... in CCW direction facing the commutator.



Remarks

4#14 1#14.5 Winding data on file

Fax 901-873-5301



As-Received Connection Form--2-,4-,and 6-pole DC Machines



(Draw and number leads and jumpers as received)



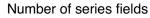
2-Pole Template

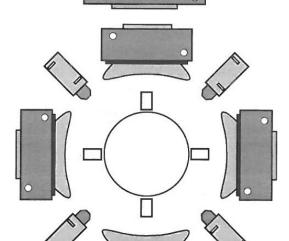
Quantity in series

Quantity in parallel

Number of poles

Number of interpoles





4-Pole Template

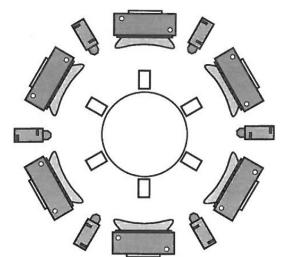
Quantity in series

Quantity in parallel

Number of poles

Number of interpoles

Number of series fields



6-Pole Template

Quantity in series

Quantity in parallel

Number of poles

Number of interpoles

Number of series fields