



"A 100% Employee Owned Company"

10901 Pump House Road
 Annapolis Junction, MD 20701-1125
 Balt.(410) 792-4230 • Wash.(301) 953-9370
 Fax: (301) 490-7156

**Mechanical Equipment
 Sales & Service**

Toshiba Variable Frequency Drive Start Up Sheet

Contractor:				C-W Sales Engineer:	
Project Name:			Address:		
City:		State:		Zip Code:	
Jobsite Contact:				Jobsite Contact Phone:	
Project Manager:				Project Manager Phone:	

ASD Information

ASD Type form	
ASD Serial #	
Project # (If Appl)	

Motor Data

Motor Manufacturer				Serial #			Catalog Number		
Voltage/Phase:		Hz		Horsepower:			RPM:		
Insulation Class:	B F H			Premium Eff. Motor:	Yes		No		
Motor Enclosure:	ODPE		TEFC	Motor Location:	Inside		Outside		

1. Visual Inspection

- No Foreign Materials
 - i. Metal Shavings, hardware

2. Input Terminals

- Check Wire condition and tightness

3. Output Terminals

- Check Wire condition and tightness

4. DCL

- Check Wire condition and tightness

www.cummins-wagner.com

5. Cooling Fan

- Fan Moves Freely

6. Motor Terminal Box

- Check Wire condition and tightness

7. Main DC Bus Connection (if no DCL)

- Check Wire condition and tightness

8. Ground Bus Connection (Drive chassis to Motor Chassis)

- Check Wire condition and tightness

9. RF/EMI Ground Connection

- Check Wire condition and tightness

10. Voltage Checks

1	L1 to L2	+/- 10% drive rated Voltage	
2	L2 to L3	+/- 10% drive rated Voltage	
3	L3 to L1	+/- 10% drive rated Voltage	
4	Control Voltage	24VDC	

11. Blower Fan Check

- Air moves freely

12. Analog inputs

V/I	0-10Vdc, 0-20mA	
RR	0-10Vdc	
RX	-10 - +10Vdc	

13. Analog Outputs

AM	0-20 mA	
FM	0-20mA, 0-10Vdc	

14. Digital Inputs

	Option#	Description
F		
R		
RES		
S1		
S2		
S3		
S4		
ST		
FP		

15. Digital Outputs

	Option #	Description
O1		
O2		
FL		

16. Jumper/Switch Settings

- J100
- J101
- SW201
- SW301

17. Programming

- ASD programming for Customer Application
- F600 Motor Thermal Overload protection

18. Motor Run Test

- Motor Bump test for Proper Rotation
- Start to 10%
- Start to 10% to 100% to stop
- Start to 100% to stop

19. Operation Check

- Connect customer controls and verify operation

20. Final Verification of Programming

- Verify all controls operate IAW customers specifications

Additional Comments:

Engineer/Technician Signature

Certification #

Date

- Please return this form along with Start -Up Request Form -