

3ASI	RNATOR INSTALLATION	PART#:		DATE:	
	C CHARGING SYSTEM - TE	CHNICIAN Evalu	uating	UNIT#	
ENG	INE-OFF TESTING				
)	Environment, visual check f	or External Conta	minants such as oi	Ι	_
)	Mounting Hardware (Bolts)	& Surfaces			_
)	Alignment, Pulley & Belt Alig (NOTE: Misaligned belts, or pu	161007 AND GOLD ST			_ gs &
	mounts.)				
•)	Pulley, Grooves & Alignmen (NOTE: Check for worn groove				- k pulley
)	Belts, Check for wear, glazir	ng and oil soaked		Δ	
		100	100.850 Million (17.10) - ACHO		
	Is Alternator belt driven from belts		2093, FRANKA, MANALINA	2 ASA -	
)	belts	ear, resistance-stit	fness & sticking _		
)	belts Belt Tensioner, Check for we Battery Load Test, Disconne Battery #1 Bat	ear, resistance-stit ect to test Individu ttery #2	ffness & sticking _ ally Battery #3	Battery #4	
)	belts Belt Tensioner, Check for we Battery Load Test, Disconne	ear, resistance-stit ect to test Individu ttery #2	ffness & sticking _ ally Battery #3		
)	belts Belt Tensioner, Check for we Battery Load Test, Disconne Battery #1 Bat	ear, resistance-stil ect to test Individu ttery #2 ad Test	ffness & sticking _ ally Battery #3	Battery #4	
)	belts Belt Tensioner, Check for we Battery Load Test, Disconne Battery #1 Bat Load Test Loa Battery Voltage (State of Cha	ear, resistance-stil ect to test Individu ttery #2 ad Test	ffness & sticking _ ally Battery #3 _ Load Test	Battery #4	
)	belts Belt Tensioner, Check for we Battery Load Test, Disconne Battery #1 Bat Load Test Loa Battery Voltage (State of Cha Battery #1 Bat	ear, resistance-stit ect to test Individu ttery #2 ad Test arge) attery #2	ffness & sticking _ ally Battery #3 _ Load Test	Battery #4 Load Test Battery #4	
)	belts Belt Tensioner, Check for we Battery Load Test, Disconne Battery #1 Bat Load Test Loa Battery Voltage (State of Chase Battery #1 Bat Volts Volts NOTE: REPLACE DEF	ear, resistance-stit ect to test Individu ttery #2 ad Test arge) attery #2 olts FECTIVE or SWOL	ffness & sticking ally Battery #3 Load Test Battery #3 Volts EN BATTERIES	Battery #4 Load Test Battery #4 Volts	
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() () () ()	belts Belt Tensioner, Check for we Battery Load Test, Disconne Battery #1 Bat Load Test Loa Battery Voltage (State of Cha Battery #1 Bat Volts Vo NOTE: REPLACE DEF DO NOT RUN ALTER	ear, resistance-stit ect to test Individu ttery #2 ad Test arge) attery #2 olts FECTIVE or SWOL NATOR IF BATTER	ffness & sticking ally Battery #3 Load Test Battery #3 Volts EN BATTERIES Y VOLTAGE IS LES	Battery #4 Load Test Battery #4 Volts SS THAN 12.4V (24.8V)	
)	belts Belt Tensioner, Check for we Battery Load Test, Disconne Battery #1 Bat Load Test Loa Battery Voltage (State of Chase Battery #1 Bat Volts Volts NOTE: REPLACE DEF	ear, resistance-stit ect to test Individu ttery #2 ad Test arge) attery #2 olts FECTIVE or SWOL NATOR IF BATTER	ffness & sticking ally Battery #3 Load Test Battery #3 Volts EN BATTERIES Y VOLTAGE IS LES	Battery #4 Load Test Battery #4 Volts SS THAN 12.4V (24.8V)	

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Suggested Alternator Installation on Vehicle Testing (continued...) Page 2 of 2

- 12) Adapter plug ends must be clean & tight fitting with no heat marks or order replacement adapter plug _____
- 13) Cables & Terminal Ends at Battery

 Must be clean & Tight no corrosion not frayed not swollen -, file or sand good but dirty terminal ends

ENGINE-ON TESTING (Start Engine Increase to High Idle about 1500RPM)

- Alternator Voltage _____(should be between 13.8 & 14.7 Volts, 27.5 & 29.4 Volts for 24V system)

 Connect Test Leads On Alternator Output & Ground Terminals On Alternator All Accessories Off
- **15) Battery Voltage** (should be between 13.4 & 14.7 Volts, 26.8 & 29.4 Volts for 24V system) Connect Test Leads On The Batteries–Test under same conditions as previous test, Accessories Off
- 16) Voltage Differential (Drop) (Maximum Allowable Differential is .5 Volt) (Alternator Voltage #14 minus Battery Voltage #15) (If a loss (drop) of more than .5 volt is present repair and/or replace existing circuits and/or supplement existing cables with additional cables from alternator positive and negative posts to battery).
- 17) Integrity of Cab Gauge Reading Volts_____ (Note differential if any from actual readings at Batteries & in Cab gauge Reading. Poor Gauge & Cabling To Cab, Dash & Gauge can result in misdiagnosis)
- 18) Additional Tests To Consider: 1) AMP output test 2) Stationary draw Test
 3) Alternator Temp excesssive heat (no-load).

IMPORTANT: The information contained in this sheet is for trained, professional technicians with proper tools, equipment & training to perform the maintenance described above. The above is suggested only; you should not assume the above applies to your equipment.

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