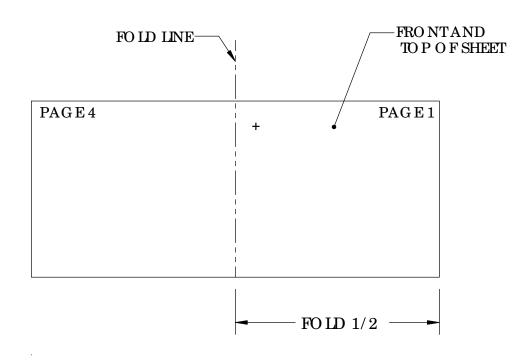
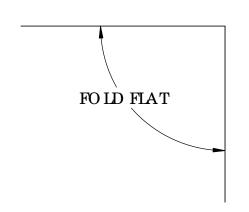
	DWG. NO. 2650-1658-00				0		
REV.	ECO#	DESC RIPTIO N	DRAWN BY	DRAWN DATE	MECH. ENG.	ELEC. ENG.	DEPT. MGR.
1	21294	INITIAL RELEASE FOR NEW PART	AMS	07/13/12	MRG		MRG
2	21475	UPDATED SC REEN WORDING TO MATCH LATEST FIRMWARE	AMS	10/09/12	MRG	-	MRG





## NO TES:

- 1) PRINTO N 11" x 17" PAPER DO UBLE-SIDED.
- 2) 5 MILS THIC K LAMINATE 11.5" x 17.5"
- 3) SCORE AND FOLD INTO BOOKLET WITH PAGES IN NUMERIC ALORDER.
- 4) DRILLA .25" DIAMETER HO LE ON THE "+" MARK THRO UG HALL PAG ES.
- 5) ARTWORK IMAGEON THIS PRINT IS FOR REFERENCE USE ONLY. CONTACTAUTO METER FOR PRODUCTION ARTWORK.

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GUIDE, XTC-160

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4

#### How to Use the Tester -Test Only-



WARNING: Safety glasses or goggles must be worn when using the tester.

	Performing a Test Only	WARNING: Use caution handling if battery tempera	ature exceeds 140°.				
1.	Startup screen will be disp Press 'Y' to continue.	played automatically when unit is first turned on.	ALTO METER MTC-168 TESTER-CHARGER 171 TO MENU				
2	Menu screen will display of Press 'Y' to continue.	cursor pointing to >Test Only.	CHANGE & TEST CHANGE CHEA TEST CHEA PENIEW-PRINT 4				
3.	Connect clamps to battery Press 'Y' to continue.	Red clamp to (+) Positive battery post Black clamp to (-) Negative battery post	COMMENT CLAMPS TO BRITTERY. RED + BLACK - 'HY TO CRINCEL.				
1.	XTC-160 automatically m	easures the battery temperature.Press 'Y' to continue.	MERCURING BRIT.				
	NOTE: If the battery is over 180°F proceeding with testing the	TEMP+1 70F					
ō.		battery. Use the +/Up and the -/Down keys to change key to continue once the rating has been entered.	DENTER BRITED COR				
i.	C+	ting Standard	CHOOSE BOTT TYPE STRATING STANDAR				
	choose type Dee	p Cycle AGM p Cycle STD	to partiting				
7.		re correct, Press "Y" to continue Press "N" to reenter battery information.	STEETING STREET TEMP 7GF RATED GCA= 680				
3.	Results/Next Steps are displayed. Next Steps can be viewed on screen by						
	scrolling down using the -	/ Down button. NOTE: Next Steps are included on every test result printout.	#1 12W BATT. GOOD BATTERY 12.68W CHEB 1889 14W PRINT-MORE				
	Good Battery	Battery is good.	TY PRINT-HORE				
	Near End of Life	Battery is ok for mild climate. May not start vehicle in hot or cold conditions.	#1 120 BATT. MERR END OF LIFE 12.680 DHRS 1825 USE 6- 9 PRINT				
	Good Needs Charge	Battery good but needs to be charged by the store or customer before being returned to service	#1 12W BRTT, GCCD HEETS CHES 12.48H DIES DO: 12.48H DIES DO:				
	Charge and Restest	Battery did not have sufficient charge for a complete Load Test. Charge the battery then retest.	ti LOU BOTT. CHARBE & TEST 12.800 CHER C: 'Y' PRINT - NGRE				
	Bad Battery	Replace battery.	#1 120 Balt. BAC BATTERY! 13.450 CMRB 1889 "Y" PRINT-MCRE.				
			uto Meter Products In				



Auto Meter Products Inc.
413 West Elm St
Sycamore, IL 60178
Service (815) 899-0801
Toll Free (866) 883-TEST (8378)
2650-1656-00 Rev. A 104/12 www.autometer.com/test

XTC-160 Battery Charging, & Testing System





## FOR HYBRYD VEHICLES

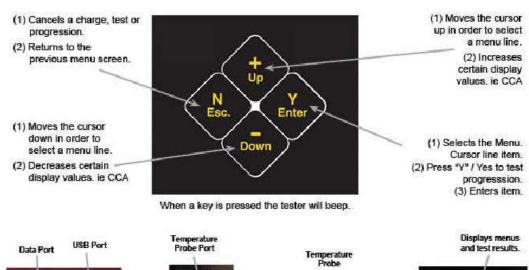
**DO NOT** test the starter, alternator and/or 12 volt starting battery while it is in the vehicle. **DO NOT** remove, service or test the hybrid battery pack under any circumstances.

Remove the 12 volt starting battery, starter or alternator from the vehicle prior to testing.

Note: Power switch must be ON to communicate with POSI-160.



Charges and Tests 6 and 12 volt batteries.











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GUIDE, XTC-160

RS.	MATERIAL:	Auto Meter			
	FINISH:	PRO DUC TS, IN	C O RPO RATED		
5°		413 WEST I SYC AMO RE, 1	ELM STREET LUNO IS 60178		
ĽΥ	TITE:	GG 4 T 7 3 T 7 T 7 T 7 T 7 T 7 T 7 T 7 T 7 T	CTTTT 0 0 TO		

SCALE NTS SHEET 2 O F 3

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DE XTC-160

2650-1658-00

2

Near End of Life

**Bad Battery** 

# How to Use the Charger/Tester

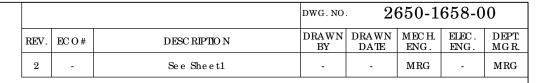


	-Charge & Test-	WEAR OLASSES		
WARNING: Safety gl	asses or goggles must be worn when using the te	ster.		
Performing a Charge and Test	WARNING: Use caution handling if battery tempera	ature exceeds 140°.		
Startup screen will be displayed Press 'Y' to continue.	d automatically when unit is first turned on.	RUTO METER XTC-158 TESTER CLARGER 1VI TO MENU		
Menu screen will display cursor Press 'Y' to continue.	r pointing to >Charge and Test.	CHROE & TEST CHROE CHLY TEST CHLY SEVIEW-PRINT		
Connect clamps to battery.	Red clamp to (+) Positive battery post Black clamp to (-) Negative battery post	COMMECT CLAMPS TO BATTERY. RED + BLACK - 'N' TO CAMCEL.		
The XTC-160 will automatically NOTE: If the battery is over 120°F, the XT	proceed to the next function.  TC-160 will prompt you to allow the battery to cool before	PERSONAL DATE.		
그러워 하나 아무리 하나 나는 그렇게 하고 있다면 하면 하면 하는 것이 없는 것이었다면 없는 없는 것이었다면 없는 없는 것이었다면 없는 없는 것이었다면 없는 없는 것이었다면 없는 없는 것이었다면 없었다면 없는 것이었다면 없었다면 없었다면 없었다면 없는 것이었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없	경기를 하나 하다 가장 하는 사는 경기 때문에 되는 사람들이 얼굴하게 가장 사람이 되었다면 하다고 살아가지 않는데 하다를 하다면 하다고 하는 사람이 되었다.	HENTER BRIED COR 600 UNE +2 197 TO CONTINUE		
choose type Standard / Deep Cycl	AGM e AGM	CHOOSE SATT TYPE STANDARD TO BOATCHINE		
```` [ 4일 : : [ [ - 1] - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] - [ - 1] -	2000년 2005년 100년 100년 1180년 120년 120년 12일	STARTING STAIDED TEMP. 70F RATED COR= 500 HP OR FP		
		CHRRAINS PLEASE VALT		
Battery Charging and Testing B	Chanten			
NOTE: The unit will automatically sto	TIME LEFT: 10 MIN SECRETARY TO STOP			
Results/Next Steps Advice are displayed. Next Steps Advice can be viewed on screen by scrolling down using the -/ Down button.				
Good Battery	Battery is good.	#1 12U BATT. 9000 BATTERY 12.68V CHR 1905 71 PRINT-HORE 4		
	Performing a Charge and Test  Startup screen will be displayed Press 'Y' to continue.  Menu screen will display cursor Press 'Y' to continue.  Connect clamps to battery.  XTC-160 automatically measur The XTC-160 will automatically NOTE: If the battery is over 120°F, the XT proceeding with charging and test the rating. Press Y / Enter key to Scroll down to choose type of battery.  Scroll down to Starting S Standard in Deep Cycle of battery.  Confirm Inputs. If inputs are could changes are required, Press  If battery is deeply discharged, may extend the charge time ne Battery Charging and Testing B  NOTE: The unit will automatically stores Results/Next Steps Advice are scrolling down using the - / Dov	Performing a Charge and Test  WARNING: Use caution handling if battery temperature.  Startup screen will be displayed automatically when unit is first turned on. Press 'Y' to continue.  Menu screen will display cursor pointing to >Charge and Test. Press 'Y' to continue.  Red clamp to (+) Positive battery post Black clamp to (-) Negative battery post Black clamp to (-) Negative battery post WTC-160 automatically measures and monitors the battery temperature. The XTC-160 will automatically proceed to the next function.  NOTE: If the battery is over 120°f, the XTC-160 will prompt you to allow the battery to cool before proceeding with charging and testing the battery.  Enter the CCA rating for the battery. Use the + / Up and the - / Down keys to change the rating. Press Y / Enter key to continue once the rating has been entered.  Scroll down to Starting Standard Standard AGM Deep Cycle AGM Deep C		

Battery is ok for mild climate. May not start

vehicle in hot or cold conditions.

Replace battery.



### How to Use the Tester -Charging Only-



WARNING: Safety glasses or goggles must be worn when using the tester.

1.	Startup screen will be displayed automatically when unit is first turned on.
	Press 'Y' to continue.



2. Menu screen will display cursor pointing to >Charge Only. Press 'Y' to continue.



3. Connect clamps to battery. Press 'Y' to continue.

Performing a Charge Only

Red clamp to (+) Positive battery post Black clamp to (-) Negative battery post

WARNING: Use caution handling if battery temperature exceeds 140°.



4. XTC-160 automatically measures and monitors the battery temperature. The XTC-160 will automatically proceed to the next function. NOTE: If the battery is over 120°F, the XTC-160 will prompt you to allow the battery to cool before proceeding with charging the battery.



5. Enter the CCA rating for the battery. Use the +/Up and the -/ Down keys to change the rating. Press Y / Enter key to continue once the rating has been entered.

SENTER RATED COR USE 40-.

6. Scroll down to choose type of battery.

Starting Standard Standard AGM Deep Cycle AGM Deep Cycle STD



7. Confirm Inputs. If inputs are correct, Press 'Y' to continue If changes are required, Press 'N' to re-enter battery information.



8. If battery is deeply discharged, the XTC will slowly recharge your battery. This may extend the charge time needed to accurately test the battery. Battery Testing Begins...





NOTE: The unit will automatically stop charging if the battery becomes too hot.

9. Results/Next Steps Advice are displayed. Next Steps Advice can be viewed on screen by scrolling down using the - / Down button.

**Charged Battery** Charge is complete.

Failed to Charge Battery

DO NOTSCALE DRAWING

Battery would not accept charge.

\$1 129 BATTERY FAILED TO CHARGE EYTTO PRINT - HORE

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MATERIAL