July 30, 2012

U.S. Department of Transportation
National Highway Traffic Safety Administration
1200 New Jersey Avenue, SE
Washington, DC 20590

Attn: Ms. Kerry Kolodziej

RE: Special Order including Requests for the Production of Documents
MY 2008 ZAP Xebra NHTSA Recall
Nos. 09v-177/12v-230 and 09V-385

ZAP has pulled all employees together to provide a response to the NHTSA's Special Order including Requests for the Production of Documents regarding recall nos. 09V-177/12V-230 and 09V-385.

We have included all parts lists for each recall and all correspondence with KARCO who is currently conducting our testing.

It is ZAP's intention to continue to seek the right adjustments to the braking systems on MY 2008 Zebras to successfully meet FMVSS No, 122 safety requirements.

I, Michael Ringstad swear under oath that all statements contained in these documents are True and to the best of my knowledge under the penalties of perjury.

Sincerely,

Michael M. Ringstad
Controller

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ZAP QUARTERLY REPORT 2012

NHTSA SERVICE BULLETIN: 09V385000

XEBRA RECALL FLUID RESERVOIR

RESPONSE: OA-122-090408, NVS-221SSe

BACKGROUND:

2008 Zap Xebra Service Brakes, Hydraulic Recall 09V385000

NHTSA:

ACTION NUMBER: N/A

SERVICE BULLETIN NUMBER: 09V385000

REPORT DATE: Oct 02, 2009

COMPONENT: Service Brakes, Hydraulic

POTENTIAL UNITS AFFECTED: 738

MANUFACTURER: Qingqi Group Motorcycle Co., Ltd

SUMMARY: Qingqi is recalling 738 my 2008 zap xebra motorcycles manufactured between january and december 2008. These motorcycles do not conform to the requirements of federal motor vehicle safety standard no. 122, "motorcycle brake systems. " they do not have a separate brake fluid reservoir for the front and rear brakes.

CONSEQUENCES: Without a separate reservoir for each brake, having its own cover, seal, and cover retention device, fluid for one brake circuit may move to the other. If this happens, both reservoirs could loose fluid as a result of a fluid leak in one brake circuit and compromise the stopping ability of both brakes.

REMEDY: Zap will notify owners and repair or replace the master cylinder free of charge. The safety recall began on january 29, 2010. Owners may contact zap toll-free at 1-800-251-4555.

LINK: http://www.automd.com/recall/campaign_c82529/

RESPONSE:

ACTION: ZAP has identified the master cylinder reservoir and made updates to comply with 49 CFR 571.116. Stating that a dual master cylinder in the recall kit be installed with a brake fluid warning labels and verification of the master cylinder using isolated brake fluid per brake circuit ensuring that if a leak is incurred the stopping ability of both brakes are not compromised.

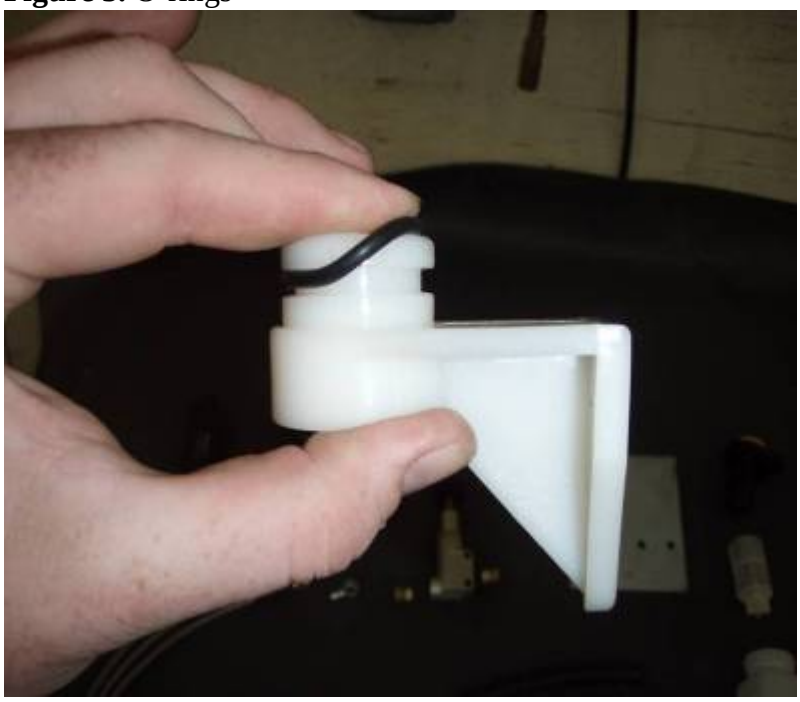
1.) Subassemblies

A.) Reservoirs

Start by sanding down the flash on the reservoir mounting brackets inside the o-ring slot using 400 grit sand paper; this helps ensures a proper seal. Blow out any debris in the reservoirs and o-ring slot to prevent contamination of the brake system.

Figure 2. Reservoir

Figure 3. O-rings



B.)Install O-rings
C.)Slide clamp onto reservoir and slide over O-ring seal, tighten the clamp so the O-ring is in between the two straps.

Figure 4. Clamp

D.) inset the micro screens, push down until it is flush with the top of the reservoir neck.

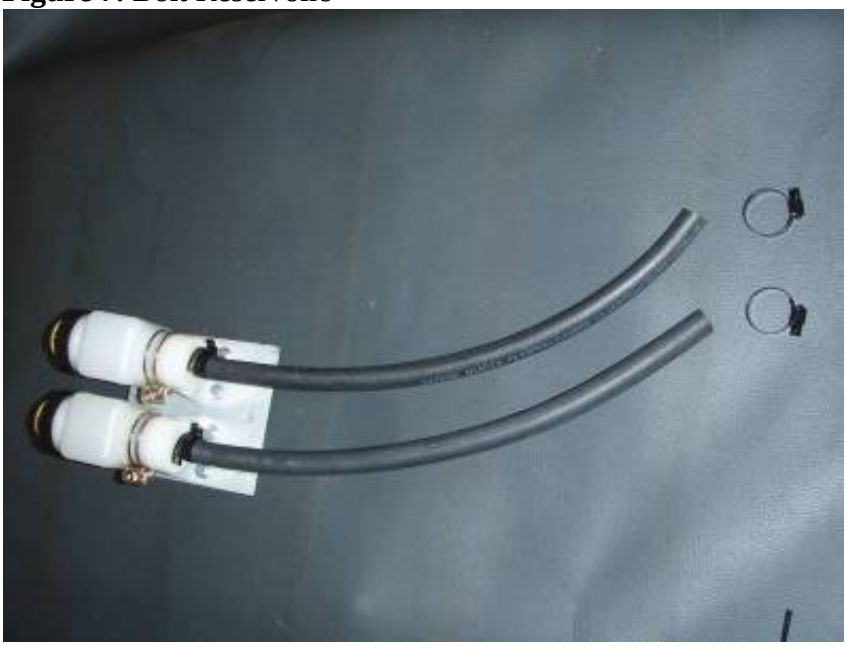
Figure 5. Micro Screen

E.) Cut the length of hose in half with a hose cutter or razor.
F.) Install hoses onto the barb on the bottom of the brake reservoir mounting bracket and clamp. Let the natural curve of the hose go to the right when the reservoir is facing you. Put the float tops on to prevent anything from getting in the reservoirs.

Figure 6. Hoses

G.) Bolt reservoirs to mounting plate with the M6 bolts provided and this assembly is complete.

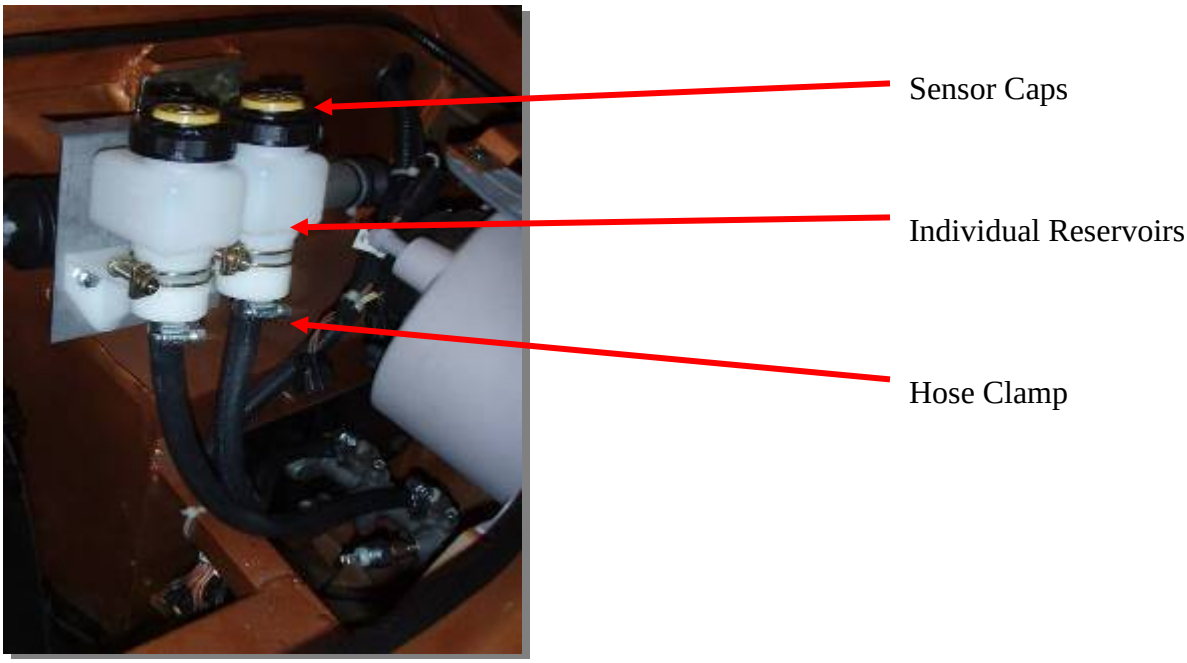
Figure 7. Bolt Reservoirs



2.) Replacing the Brake Reservoir

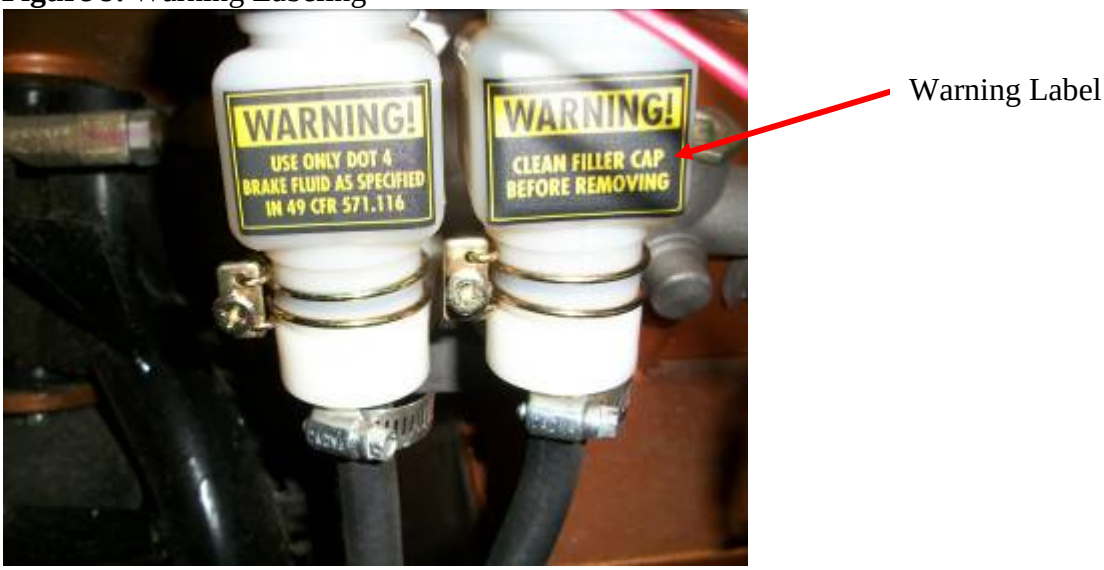
Remove the old brake reservoir and the new ones as shown. You can recycle two of the bolts removed to mount the new reservoir mount plate. Remove as much of the fluid as you can before starting and use a drip pan to catch any fluid that may drip.

Figure 8. Brake Reservoir



Place Warning Labels as noted on each Brake Reservoir.

Figure 9. Warning Labeling



Note: Warning Labels should be adhered and visible as seen. **Use Only DOT 4 Brake Fluid As Specified In 49 CFR 571.116. Clean Filler Cap Before Removing.**

BILL OF MATERIAL:

PARTS KIT FOR RECALL 09V-385

12/1/2011		
QTY	**PARTS**	**DESCRIPTION**

2	260-3394	FILLER, 4.0 OZ, M/C, REMOTE TYPE
2	210-3397	O-RING, MOUNTING BRACKET, 1.12, RMTE M/C RESERVOIR, 210A/B/K
2	260-3393	CLAMP, RESERVOIR, M/C, WILWOOD REMOTE TYPE
2	250-3381	BRACKET, MOUNTING,RESERVOIR, M/C, WILWOOD, REMOTE TYPE
1	220-3357	HOSE, M/C, REMOTE TYPE, 3/8 ID X 5/8 OD X 30.0
2	260-10342	CLAMP, HOSE, 1.12 DIA X 5/16 SS BAND BLK
2	100-12111	WARNING LABELS FOR RESERVOIRS 31MM X 44MM
2		CONNECTOR, TO FLOAT CAPS
1		RESERVOIR MOUNTING BRACKET
2		BRAKE SENSOR MODULE
1		BRAKE FLUID DOT 4 14OZ.

ZAP QUARTERLY REPORT 2012

NHTSA SERVICE BULLETIN: 09V177000

XEBRA RECALL FLUID RESERVOIR

RESPONSE: OA-122-090408, NVS-221SSe

BACKGROUND:

2008 Zap Xebra Service Brakes, Hydraulic Recall 09V177000

NHTSA:

ACTION NUMBER: N/A

SERVICE BULLETIN NUMBER: 09V177000

REPORT DATE: May 26, 2009

COMPONENT: Service Brakes, Hydraulic

POTENTIAL UNITS AFFECTED: 738

MANUFACTURER: Qingqi Group Motorcycle Co., Ltd

SUMMARY: ZAP is recalling 738 my 2008 zap xebra motorcycles manufactured between January and December 2008. These motorcycles do not conform to the stopping distance requirements of federal motor vehicle safety standard no. 122, "motorcycle brake systems. "

CONSEQUENCES: These motorcycles require longer distances to stop than the standard allows. Extended stopping distances may result in a vehicle crash.

REMEDY: Qingqi will notify owners and zap dealers will inspect and replace the brake rotors, pads, master cylinders, and front tire if necessary free of charge. The safety recall began on september 21, 2009. Owners may contact zap toll-free at 1-800-251-4555.

LINK: http://www.automd.com/recall/campaign_c79191/

RESPONSE:

ACTION: ZAP is in the process of developing the Action Plan for compliance to meet FMVSS 122 brake system requirements. Currently, the vehicle is undergoing retesting at KARCO Engineering for 1st and 2nd efficiency testing. Upon compliance with FMVSS 122 testing ZAP will use the process documentation and BOM to submit the recall Brake Kit to customers and dealers. Wilwood Brake Manufacturing has assisted with the brake kit development and most parts will be sourced from Wildwood. We look forward the process documentation and distribution of the brake kits to customers and dealers.

XEBRA 2008 – DEALER BRAKE RECALL FIX Version 6

To ensure correct stopping distance, lower pedal pressure and to ensure that the system operates with dual brake reservoir and warning system, the following procedure must be followed and components installed.

Outline of Brake Upgrade Installation Procedure

1.) Sub Assemble Components
2.) Remove, Replace Brake Reservoirs
3.) Remove, Replace Brake Pressure Sensors
4.) Replace Flexible Brake Lines
5.) Replace Brake Pads
6.) Install Proportioning Valve
7.) Rewire Brake Sensors and Floats
8.) Bleed System
9.) Check tire pressure and Lug torque
10.) Adjust Shock

Figure 1. Brake Upgrade Kit

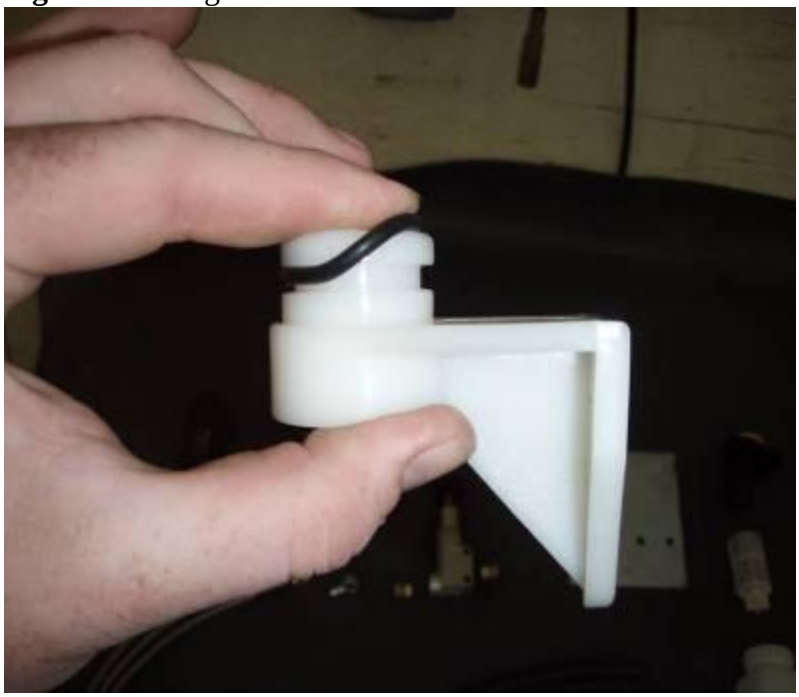
1.) Subassemblies

A.) Reservoirs

Start by sanding down the flash on the reservoir mounting brackets inside the o-ring slot using 400 grit sand paper; this helps ensures a proper seal. Blow out any debris in the reservoirs and o-ring slot to prevent contamination of the brake system.

Figure 2. Reservoir

Figure 3. O-rings



B.)Install O-rings
C.)Slide clamp onto reservoir and slide over O-ring seal, tighten the clamp so the O-ring is in between the two straps.

Figure 4. Clamp

D.) inset the micro screens, push down until it is flush with the top of the reservoir neck.

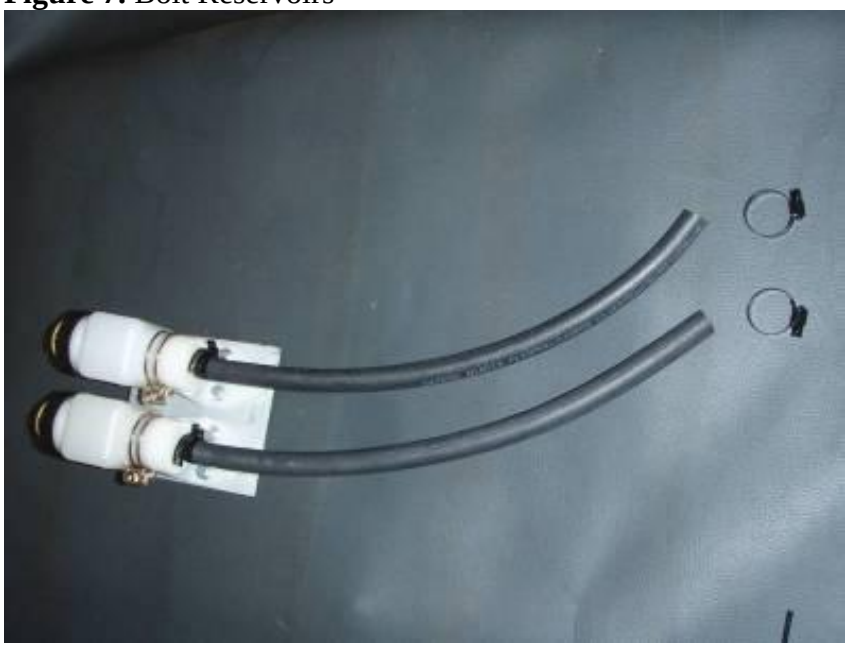
Figure 5. Micro Screen

E.) Cut the length of hose in half with a hose cutter or razor.
F.) Install hoses onto the barb on the bottom of the brake reservoir mounting bracket and clamp. Let the natural curve of the hose go to the right when the reservoir is facing you. Put the float tops on to prevent anything from getting in the reservoirs.

Figure 6. Hoses

G.) Bolt reservoirs to mounting plate with the M6 bolts provided and this assembly is complete.

Figure 7. Bolt Reservoirs



Proportioning Valve

A.) Mount the adaptors on the In and Out then tighten until snug, remember that these are soft metals don't strip them out.

Figure 8. Proportioning Valve

Pressure Sensors

A.) Mount the adaptors to the pressure sensors again remembering that these are soft metals.
B.) Push the wires through the dust covers and set aside until wiring.

Brake Lines

A.) Put one of the loop adaptors on one end and one of the line adaptors on the other end of the braded steel line.

Figure 9. Brake Lines

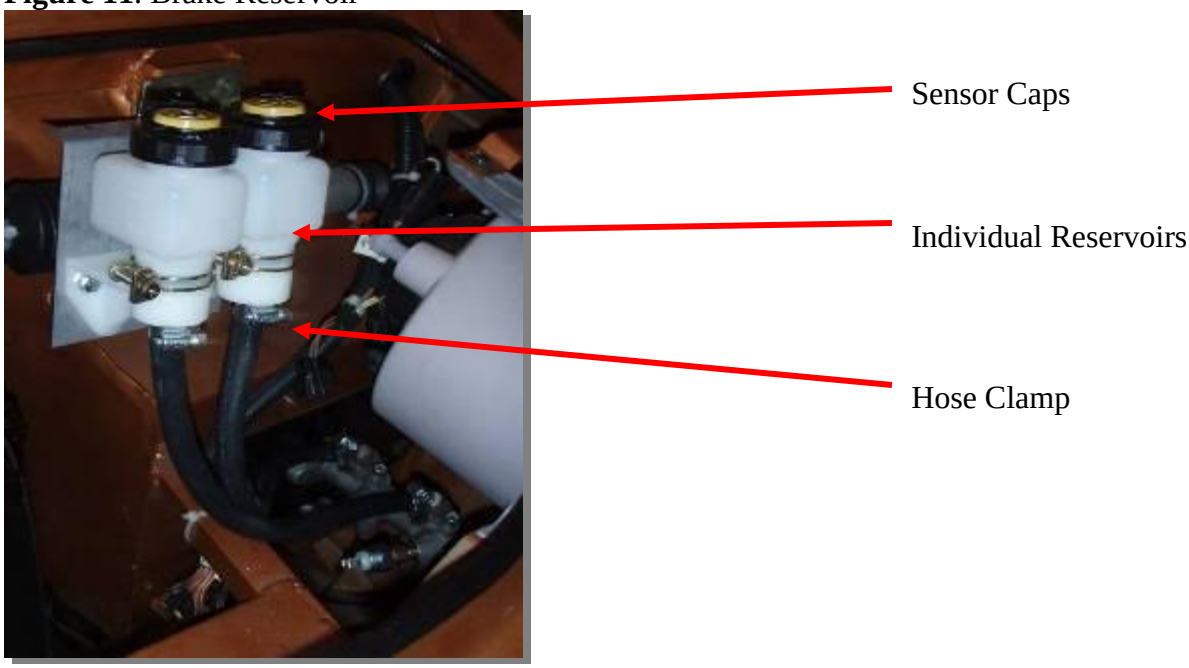
This is what the sub assembled kit should look like:

Figure 10. Sub Assembled Kit

2.) Replacing the Brake Reservoir

Remove the old brake reservoir and the new ones as shown. You can recycle two of the bolts removed to mount the new reservoir mount plate. Remove as much of the fluid as you can before starting and use a drip pan to catch any fluid that may drip.

Figure 11. Brake Reservoir



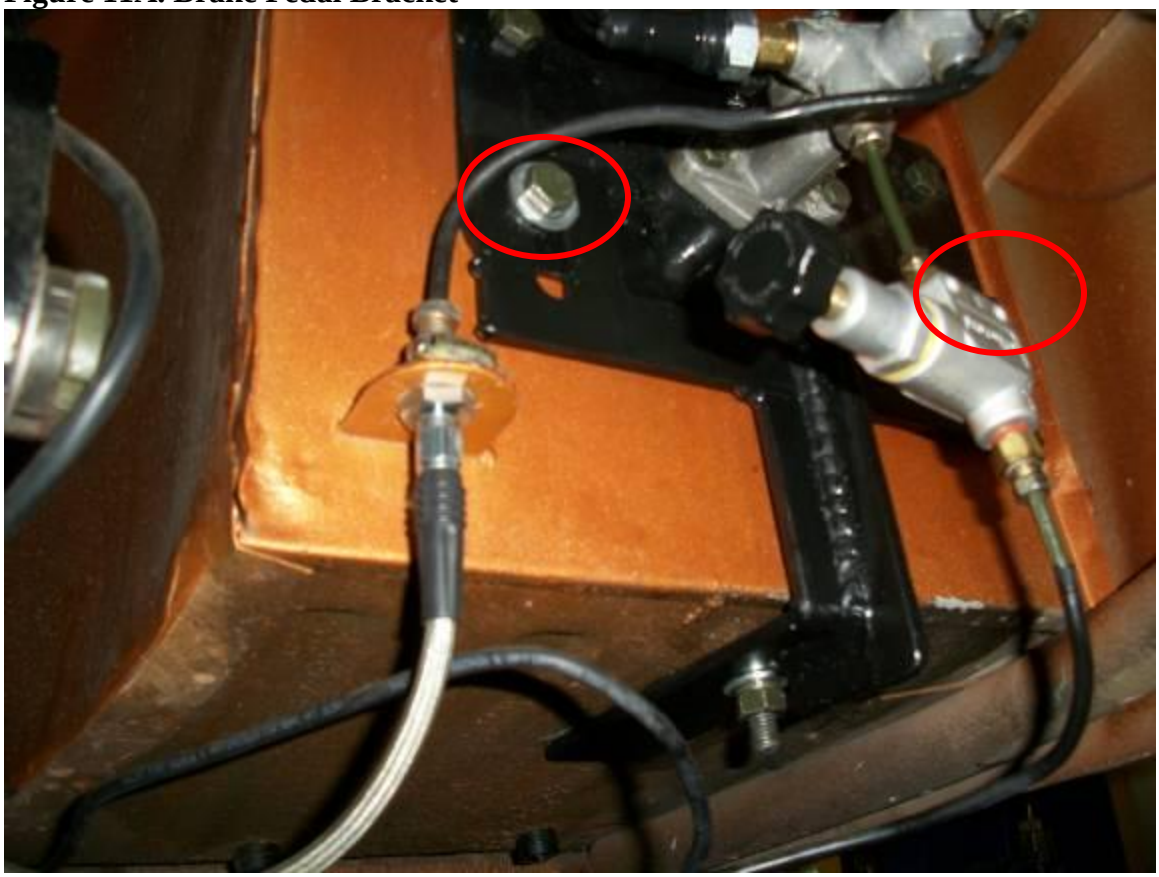
Place Warning Labels as noted on each Brake Reservoir.

Note: Warning Labels should be adhered and visible as seen. **Use Only DOT 4 Brake Fluid As Specified In 49 CFR 571.116. Clean Filler Cap Before Removing.**

2A. Pedal Brake Bracket Installation.

Loosen lower Pedal Bracket bolts and fasten supplied Brake Pedal Support Bracket. Tighten lower bolts as shown. Drill floor hole. Then fasten as shown. This support bracket will help reduce pedal box flex during excessive pedal pressure.

Figure 11A. Brake Pedal Bracket



Note: Steel Pedal Bracket only installed on Steel sedans.

<u>3.) Remove and replace the brake pressure sensors.</u>

Unclip the old ones and unscrew; put the new ones in finger tight you will need to come back later to bleed them.

Figure 12. Pressure Sensor

<u>4.) Replace flexible brake lines</u>

A.) Place the vehicle on a car lift and remove all of the wheels. Remove the lines one at a time with the drip pan underneath it. Start with the treaded connection, unscrew the hard brake line then loosen the flexible line from the mount.
B.) Remove the banjo bolt and crush washers from the other end of the flexible line.
C.) Reinstall the banjo end of the new steel braded line using the new crush washers, do not reuse the old crush washers as they may not seal properly.

Figure 13. Banjo Connector

D.) Insert the clip end of the flexible line through the mount hole and install the clip making sure that it is secure. Reinstall the hard line to the new braded brake line.

Figure 14. Brake Line

E.) Make sure that the line is routed so that it will not touch any moving parts especially the tire. You can loosen the banjo bolt and turn the line to reposition as shown.

F.) Repeat this procedure for the other two wheels.

<u>5.) Replace the brake pads</u>

A.) Remove Brake Caliper Slide Bolts and slide the caliper off and secure it. Do not let it hang by the line. Take note of the position of the pad clips. If you replace the pads one at a time the clips won't fall out.

Figure 15. Brake Slide Bolts

Figure 16. Brake Pad

B.) You may need to push the cylinder on the caliper in with a C-clamp but do this gently.

Figure 17. Brake Caliper

C.) Reinstall the Brake Caliper slide bolts using Medium Thread lock, make sure to align the flats on the end of the slide bolts with the flats machined on the caliper.

Figure 18. Brake Slide Bolts

D.) Repeat for the other two wheels.

6.) Proportioning valve.

A.) Do not adjust the proportioning valve it is preset from the factory.
B.) Remove the single line coming from the master cylinder in front and bend it to the right about 90 degrees making sure not to crimp it closed. A brake line bender is recommended.

Figure 19. Proportioning Valve

C.) Install the Proportioning Valve noting that the line coming from the master cylinder is going to the “IN” side of the valve and the “OUT” side is connected to the “T” splitter with the new 12” bent hard line. Make sure that the valve is clear of the gearbox it is rubber mounted and can move some.

Figure 20. T Splitter

7. Wiring

7.) Brake Upgrade Wiring

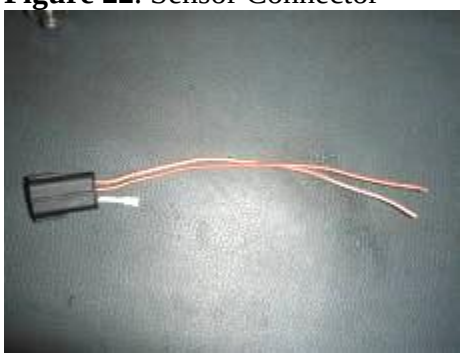
A.) Locate the brake sensors and pigtails that were removed. Cut the old brake sensors off as close to the sensor as possible and keep the pig tail. Also, Cut the cut the brake reservoir off in the same manor.

Figure 21. Brake Sensor

Figure 21A. Brake sensor Connector

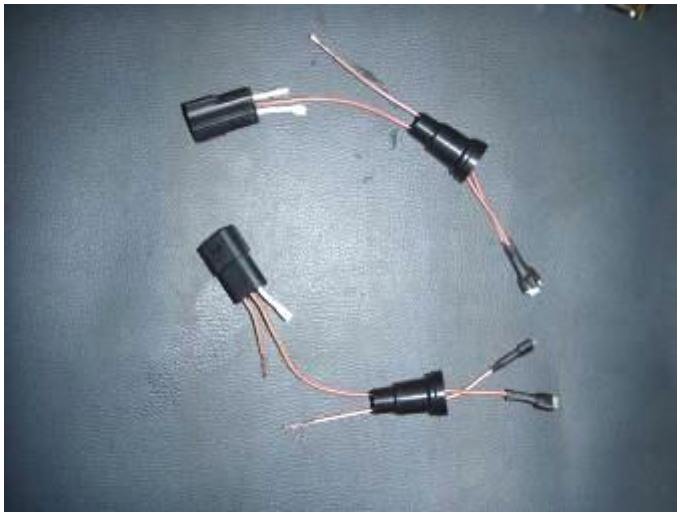
B.) Next, cut off the orange wires you don't need them. Cap them off with shrink tube at the connector. The brown wires with the white stripe cut one off near the connector and cap it but save the wire, the other one cut off about 2" up from the connector and strip the end of the wire from the connector.

Figure 22. Sensor Connector



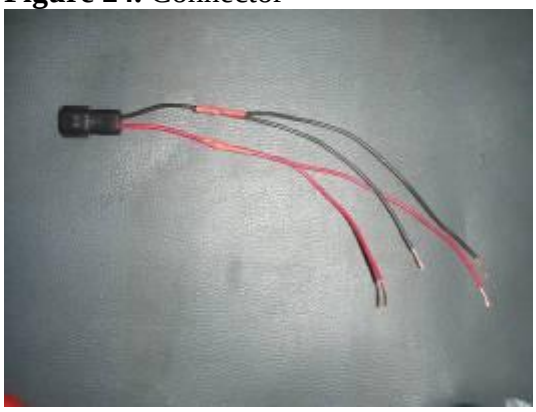
C.) Feed the wires through the dust boots.
D.) Strip the ends of the wires.
E.) Put shrink tube on the wires just barely long enough to cover the connectors.
F.) Put female spade connectors on the ends of all four wires.
G.) Solder on the spade connectors.
H.) Shrink the shrink tube.

Figure 23. Wired Sensor Connector



I.) Cut four pieces of 18 AWG wire two that are 6” long one red and one black, and two 8” long one red and one black.
J.) Strip the ends of all four pieces of wire and the ends of the wires on the connector removed from the reservoir.
K.) Hook the ends of the wires on the connector and on one end on each of the four wires. Next, connect the black wires to the one black wire on the connector and the red ones to the one red wire. Solder and shrink tube the wires.

Figure 24. Connector



L.) Crimp and solder pins on for the connector to the reservoir float caps.

Note: we do not have the connectors for the reservoir float caps and are awaiting a part number from the manufacturer.

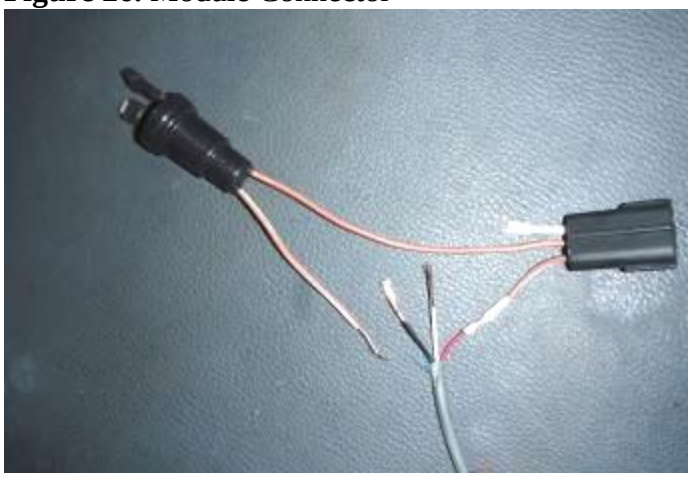
M.) Connect the float sensor harness using the connector. The black wires to the float cap should be connected to the middle position and the red wires to the pin to the right the pin on the left is unused.

Figure 25. Dual Reservoirs

Sensor and Module wiring

A.) Connect , solder, and shrink tube the red wire in the com cable to the red “fault” wire to the brown wire with the white stripe that runs back to the car through the connector.

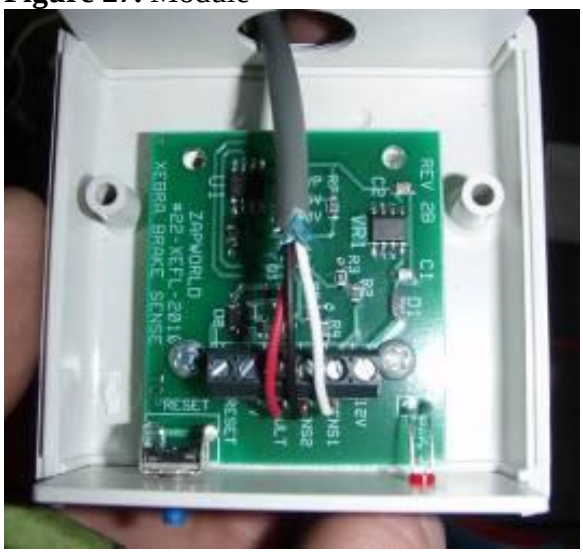
Figure 26. Module Connector



B.) In the same manor solder the white wire to the wire with the spade connector for the rear pressure switch and the black wire to the one for the front. Shrink tube over the communications wires to protect them.
C.) Connect the spade connectors to the pressure switches the three pin connectors run the communications cable through the hole in the barrier wall that the other wires are routed through.
D.) Strip the ends of the communications cable wires about a ¼ “ back and tin them.
E.) Install the wires into the properly marked terminals:

Red-fault
White-sense 1
Black-sense 2

Figure 27. Module



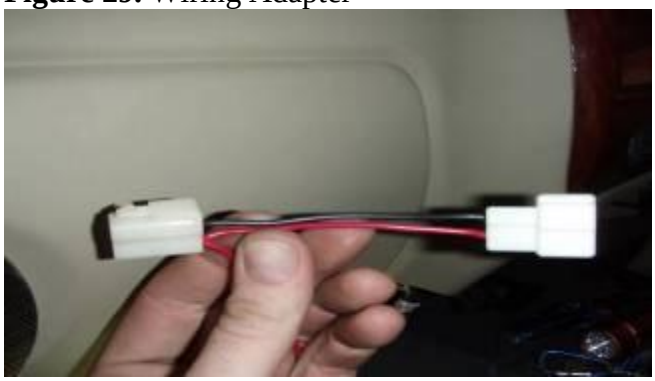
F.) Assemble power wire harness for the sensor module.

aa.)Cut two peaces of 18AWG that are 4" long one red and one black, and two that are 18" long one red and one black.
bb.) Strip 1/4" of insulation off of each end of the wires.
cc.) Put a wire loop on one end of the long black wire and tin the other end.

Figure 28. Wire Connector

dd.) Put a male and female spade connector on the ends of the short black wire.
ee.) crimp one end of the short red wire and one end of the long red wire into the female spade connector. Tin the other end of the long wire and crimp a male spade connector on the other end of the short wire.
ff.) Clip the black wire into the top positions of the connector (closest to the clip) it is a good idea to check voltage and polarity on the power source to the brake pedal switch as different revisions of the car were wired slightly differently. insert the red wires into the bottom of the connectors (this needs to be the hot side when the ignition is on.

Figure 29. Wiring Adapter



F.) Locate the brake light pedal switch and plug harness into it and connect the ground loop to the ground bolt that is welded to the frame directly above the accelerator pedal under the dashboard.

Figure 30. Brake Pedal

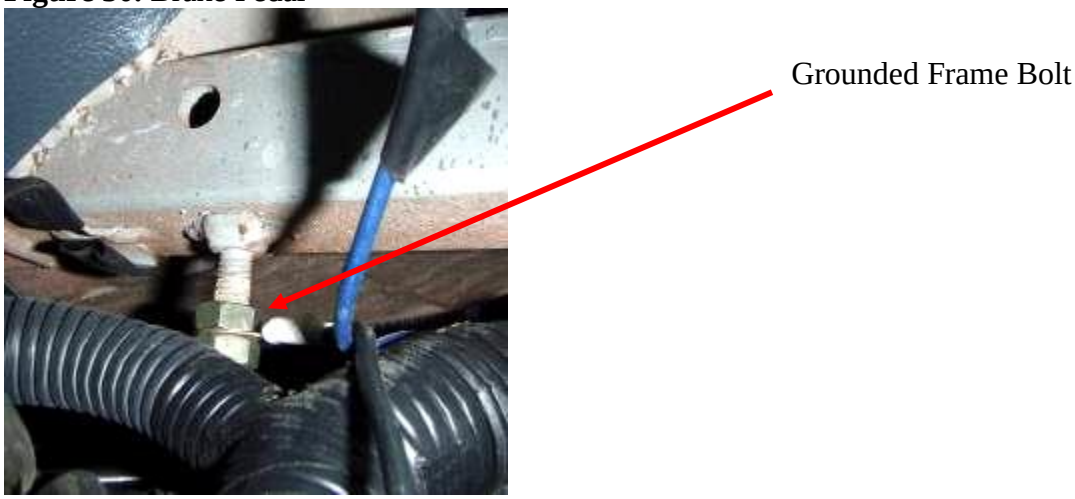
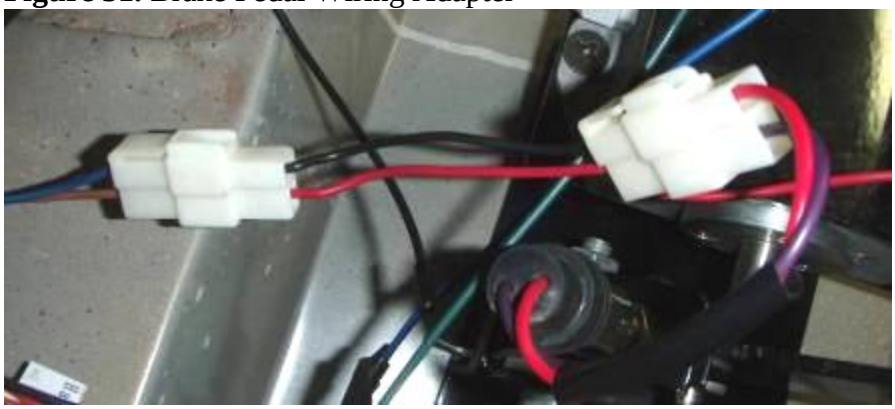


Figure 31a. Brake Pedal

Figure 31. Brake Pedal Wiring Adapter

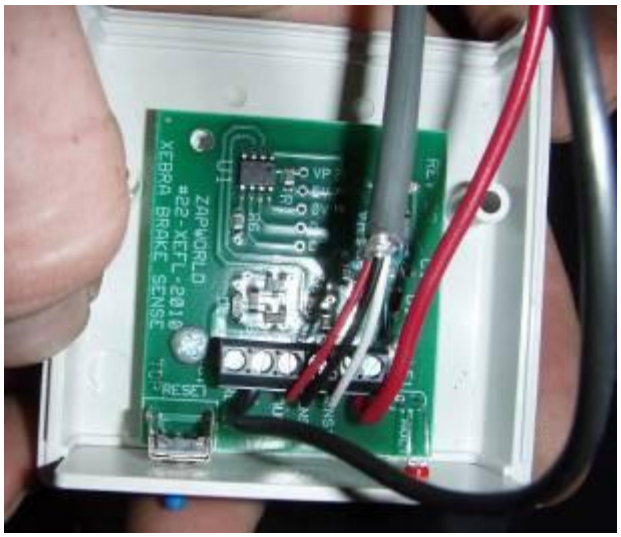


I.)Connect the run the red and black wires to the connectors inside the module box.

Red wire -12v

Black wire - 0v

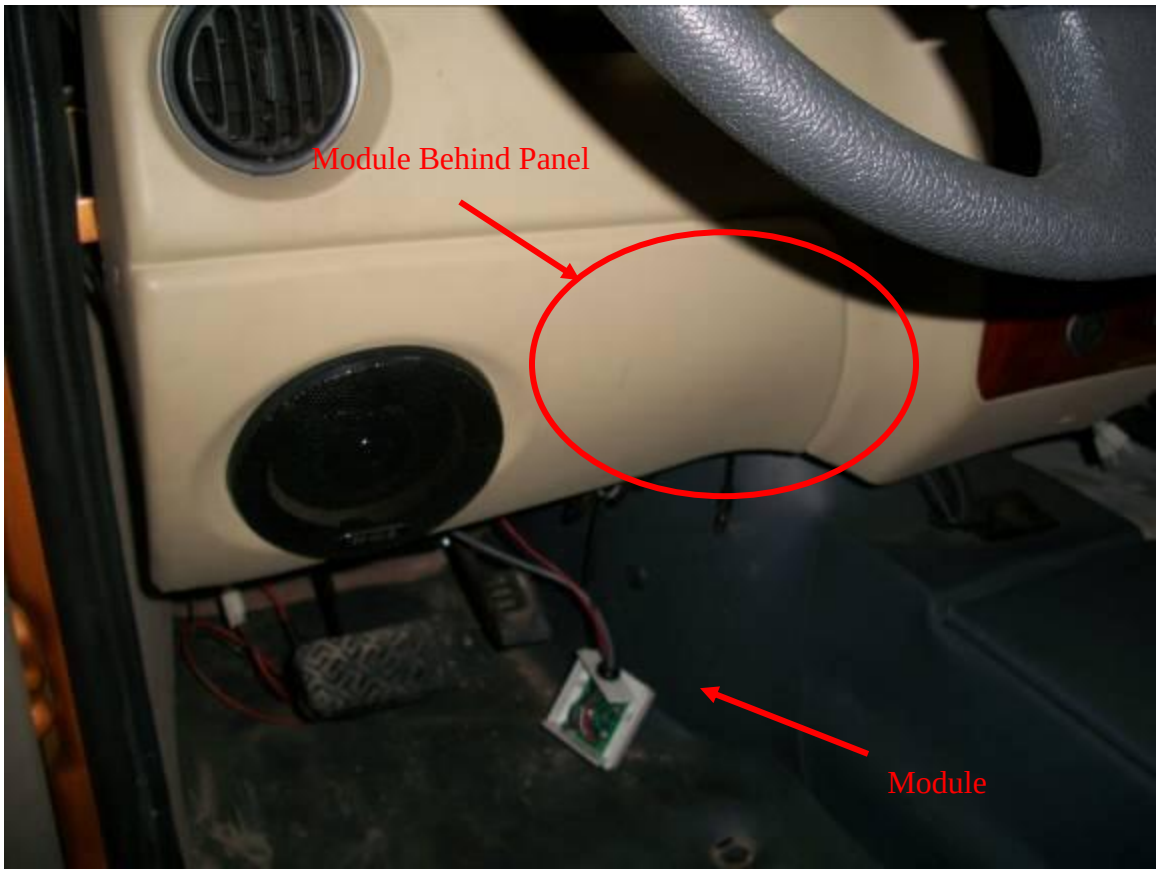
Figure 32. Light Module



Reassemble the module box.

J.)Secure the box and the wires under the dash using zip ties so that there are no wires hanging down and making sure that the wiring in no way interferes with the operation of the foot pedals.

Figure 32A. Fault Module Location



8.) Bleed System

A.) Pressure sensors
Fill the Brake Fluid reservoirs with DOT 4 fluid, leave the sensors just loose enough to leak where the sensor is treaded into the adaptor. Have the drip pan underneath it have someone apply GENTLE pressure to the brake pedal until you see the bubbling stop around the treading, tighten the sensor before releasing the brake pedal. Do this one at a time for front and back. You may have to repeat this procedure several times to purge all of the air out.

B.) Tighten the pressure sensors all of the way.

C.) Manually bleed the brakes until you get no more air starting at the farthest caliper RR, then LR, then F.

D.) Reinstall the wheels and torque to 42 ft/lbs check tire pressure for the proper rating for those tires.

9.) Tighten front shock
Using Spanner wrenches tighten the spring so that about 1.75 inches of thread is showing.

The Brake warning light is located on the lower portion of the AMP gauge (the gauge on the far right) it is illuminated for the purpose of this picture.

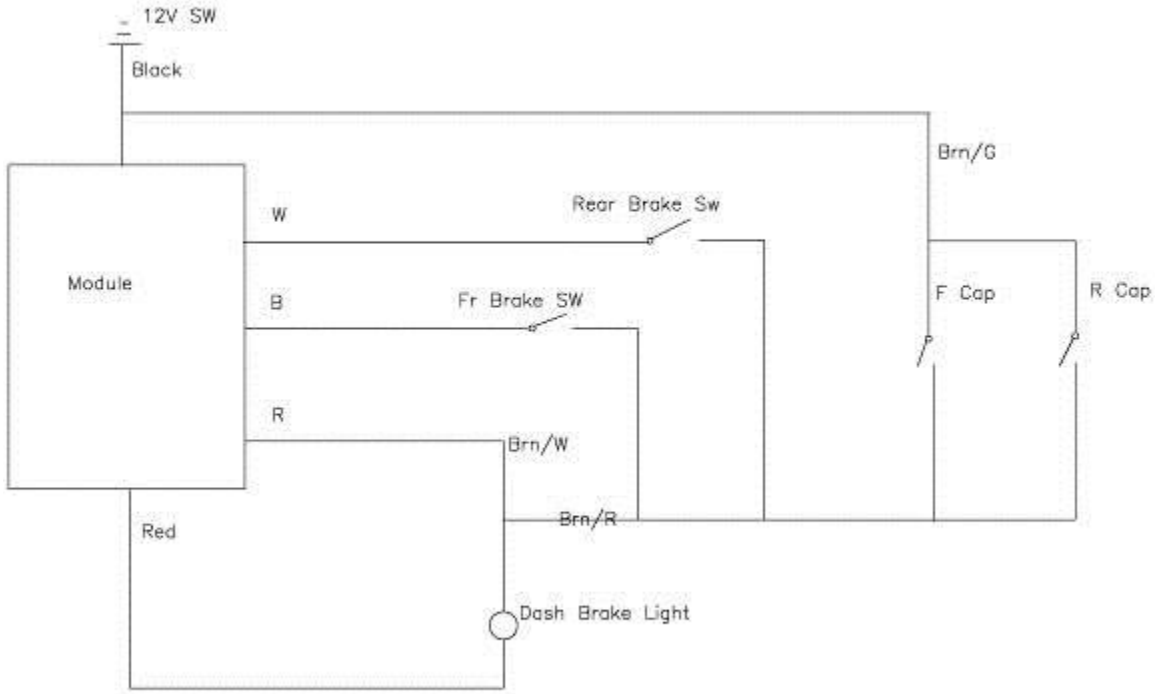
Figure 33. Xebra Dashboard

BOM

PARTS KIT FOR RECALL 09V-177; 09V-385

12/1/2011		
QTY	**PARTS**	**DESCRIPTION**
2	260-3394	FILLER, 4.0 OZ, M/C, REMOTE TYPE
2	210-3397	O-RING, MOUNTING BRACKET, 1.12, RMTE M/C RESERVOIR, 210A/B/K
2	260-3393	CLAMP, RESERVOIR, M/C, WILWOOD REMOTE TYPE
2	250-3381	BRACKET, MOUNTING,RESERVOIR, M/C, WILWOOD, REMOTE TYPE
1	220-3357	HOSE, M/C, REMOTE TYPE, 3/8 ID X 5/8 OD X 30.0
2	260-10342	CLAMP, HOSE, 1.12 DIA X 5/16 SS BAND BLK
3	220-8371	FLEXLINE, BRAKE, 20IN. OAL, -3 HOSE -3 FEMALE, DWG. 1449B1A REV U
3	220-10416	FITTING BANJO, -3 MALE TO 10MM .388-.425 MOUNT
3	220-6413	FITTING. ADAPTOR, TUBING -3 TO 10MM X 1.0 IF, STEEL, ZINC
1	Z-260-9500	VALVE, PROPORTIONING, COMPACT ASSY, KNOB TYPE, WWE, BULK PACK
2	300-11181	SWITCH, PRESSURE, 1/8 NPT
2	210-11141	SEAL, DUST BOOT, PRESSURE SWITCH
4	300-11182	PIGTAIL, PRESSURE SWITCH, BLADE STYLE
2	220-11656	FITTING ADAPTOR, .125NPT TO M10 X 1.0 BRASS
3	300-6416	CLIP, FITTING ADAPTOR, BRAKE LINE
6	240-5227	WASHER, .406 ID X .625 OD X .063 COPPER, SOFT TEMPERED, 4913B1S A
3	150-11654	PAD, D177-SG, 55 THK, 2-PK
2	100-12111	WARNING LABELS FOR RESERVOIRS 31MM X 44MM
1	23-XEFL-2011	FAULT LIGHT INDICATOR MODULE
1		BRAKE FOOTWELL STRENGTHENING BRACKET
2		CONNECTOR, TO FLOAT CAPS
1		RESERVOIR MOUNTING BRACKET
1		12" STEEL BRAKE LINE M10 X 1.0MM
2		BRAKE SENSOR MODULE
4		M6 X 1.0 X 30MM BOLT
4		M6 X 1.0 NYLOCK NUT
1		BRAKE FLUID DOT 4 14OZ.
8		M6 WASHER STEEL

Figure 34. Wiring Diagram Module



ELECTRIC CIRCUIT FOR BRAKE UPGRADE AND BRAKE WARNING/FAILURE LIGHT

ZAP XEBRA BRAKE PERFORMANCE ANALYSIS AND RECOMENDATIONS

Prepared for: ZAP
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April 5, 2010

REV. A, April 7, 2010

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INTRODUCTION

The ZAP XEBRA is a 3 wheeled electric vehicle that falls within the FMVSS 122 motorcycle brake systems standard. To be compliant with this standard, the vehicle needs to meet stopping distance, parking brake holding, system design, and specific indicator requirements. Initial testing at the Wilwood facility showed a failure to meet the stopping distance, indicator, and equipment standards. This document will describe the test methods and equipment used, performance of each component tested, and recommended brake component changes.

MATERIALS

-ZAP XEBRA test vehicle

-QwikData data acquisition system *(Fig. 1)*

-G-Tech Pro accelerometer logging device *(Fig. 2)*

-Brake pedal force transducer and gauge *(Fig. 4)*

-6 test brake pad sets including OE pads provided with vehicle

- -OE pad
- -Raybestos standard grade
- -Raybestos premium grade
- -Napa Altrom metalic
- -Napa Truestop
- -Napa Ultra Premium

-Custom braded stainless steel brake lines *(Fig. 5)*

-Wilwood Engineering proportioning valve, part # 260-8419 *(Fig. 6)*

-Brake fittings, adapters, and plugs

-DOT 3 or 4 brake fluid

METHODS

The test procedure was designed to replicate FMVSS 122 motorcycle brake systems testing procedure. Additional test equipment was used to reduce variables and provide more accurate data for design purposes.

6 stops were made from 30 mph with a target distance of 43 feet or less. Data acquisition tools recorded the stopping acceleration (deceleration) for each stop. (Fig. 1, 2 and 3) A pressure transducer and gauge were used to measure pedal force during each stop. (Fig 4) This procedure was repeated for each change made to the vehicle.

1. The first test performed was a base line test. No modifications had been done to the vehicle, it was tested as received. A final inspection of required equipment was also performed after braking distance testing.

2. The first modification performed on the vehicle was a removal of the leaking brake switches from the master cylinder. The ports were plugged and the hydraulic brake system was bled to remove air from the system.

3. The second modification performed was a front to rear proportioning valve installation. *(Fig. 6)* This was an effort to even out braking force distribution. The hydraulic brake system was bled to remove air from the system.

4. The third through seventh modifications were all brake pad changes. This was to evaluate different pad compounds available for this vehicle.

5. The eighth modification was a brake line replacement. *(Fig. 5)* The brake lines were replaced with a high grade braded stainless steel brake line which is designed to have minimal expansion under pressure. This was an effort to reduce brake pedal travel. The hydraulic brake system was bled to remove air from the system.

6. The ninth modification was a brake pedal adjustment. This was also an effort to reduce the brake pedal travel.

7. The tenth modification was a reduction of the test pad material to reduce brake drag.

8. The last modification was performed as requested via telephone from the customer. The parking brake caliper return springs were replaced.

RESULTS

1. Base line testing showed a stopping distance greater than 43 feet, and rear wheel lock up at pedal forces below 90 lbs. FMVSS final inspection equipment requirements showed failures in sections S5.1.2, S5.1.2.1, S5.1.2.2, S5.1.3 (B) and (D).

2. Removal of leaking brake switches showed no measurable gain in braking performance.

3. Proportioning valve installation actually increased stopping distance for the same pedal force, but eliminated rear wheel lock up. The proportioning had an added benefit of reducing brake pedal travel. The calculated coefficient of friction for the currently used brake pad is .375.

4.

a. The first replacement pad tested was a Raybestos standard grade pad. During pad bedding and burnishing the driver noted a vibration and noise coming from the front brake. This noise and vibration was completely eliminated after about 10 stops during the bedding process. The driver also noted a very apparent increase in braking performance. The test data confirmed a significant increase in the braking performance relative to the base line test. The calculated coefficient of friction for this pad is .500.

b. The second replacement pad tested was a Raybestos premium grade pad. Surprisingly, this showed a decrease in stopping performance. The calculated coefficient of friction for this pad is .360.

c. The third replacement pad tested was a Napa Altrom Ultra-8 metallic pad. This pad did not show any significant improvement in stopping distance. The calculated coefficient of friction for this pad is .395.

d. The fourth replacement pad tested was a Napa TruStop pad. This pad did not show any significant improvement in stopping distance. The calculated coefficient of friction for this pad is .395.

e. The fifth replacement pad tested was a Napa Ultra Premium pad. This pad showed a significant improvement in stopping performance. The calculated coefficient of friction for this pad is .440.

5. Replacing the original equipment brake lines with braded stainless steel brake lines showed a brake pedal travel improvement. The pedal travel is still excessive.

6.

a. Verifying and adjusting the brake pedal location had no measurable improvement on brake pedal travel. The master cylinder's push rod was position correctly as received.

b. Excessive movement in the structure holding the brake pedal was noted during testing.

7. Upon review of brake drag, it was found that the test brake pads were too thick for the caliper and rotor combination. The pads were modified to fit this vehicle.

8. As requested by the customer, higher rate return springs were installed in the parking brake calipers. This showed no signs of reducing the parking brake caliper drag. An adjustment was made to the parking brake cable in an attempt to reduce the drag. This adjustment created an interference problem between the vehicle's rim and the outboard brake pad backing plate. The parking brake pad which interfered with the rim was modified to produce a clearance. It was determined that the parking brake mechanism needed further engineering efforts that are not within the scope of this project.

RECOMMENDATIONS

To meet the FMVSS 122 Service Brake System-Second Effectiveness test [S7.5], the following components are required:

1.
a. One proportioning valve (Wilwood part #260-8419*(Fig. 6)* or #260-11322 *(Fig. 7)*)

b. One vehicle set of upgraded brake pads (Modified Raybestos Standard Grade).
*Note: Wilwood proportioning valve part #260-8419 *(Fig. 6)* should be supplied as a non-adjustable part for production vehicles. Wilwood combination valve part #260-11322 *(Fig. 7)* includes non adjustable proportioning valve and a brake failure switch.

c. Upgraded brake lines and/or stiffening the pedal mounting location to reduce the brake pedal travel is highly recommended, although it may not be required to meet this standard.

To meet the FMVSS 122 Final Inspection-Equipment Requirements [S5.1] the following needs to be changed:

2.
a. The master cylinder reservoir will need to be replaced with two appropriately sized separate reservoirs with a fluid level sensor. [FMVSS 122 (S5.1.2.1)]

b. The reservoirs or caps need to have a warning statement. [FMVSS 122 (S5.1.2.2)]

c. The indicator on the dash needs to turn on momentarily when the key is moved to the "On" or "Start" position. [FMVSS 122 (S5.1.3.1 (b))]

d. The indicator on the dash needs to have a legend that reads "Brake Failure". [FMVSS 122 (S5.1.3.1 (d))]

e. The brake switches need to be replaced with higher pressure rated switches or removed in favor of a switch located on a combination valve I.E. Wilwood part #260-11322 *(Fig . 7)*. [FMVSS 122 (S5.8)]

CONCLUSIONS

Wilwood Engineering was able to produce a test vehicle that met the minimum stopping distance requirements of FMVSS section S7.5 (30 to 0 MPH within 43ft.), with the modifications recommended in this report.

FIGURES

Fig. 1: Data Acquisition

Fig. 2: Accelerometer

Fig. 3: Pressure Transducer

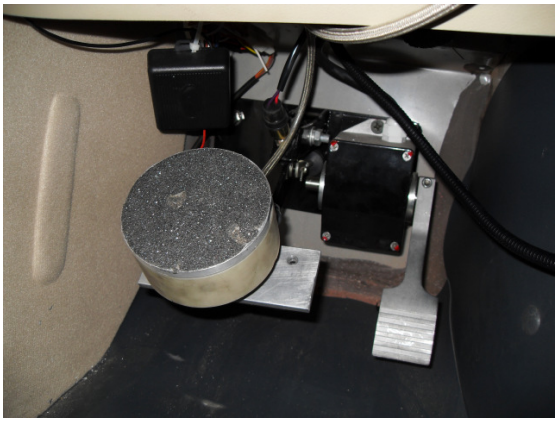

Fig. 4: Brake Force Transducer

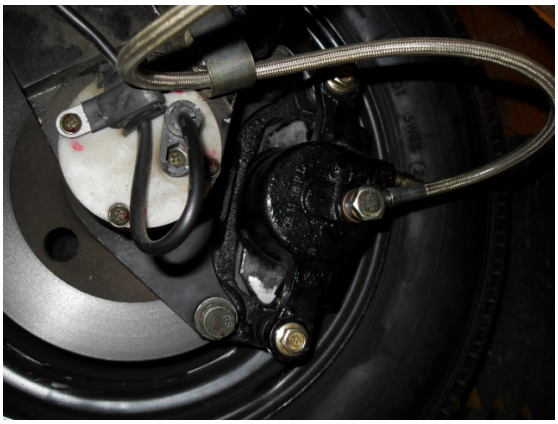

Fig. 5: Braided Stainless Steel Brake Line

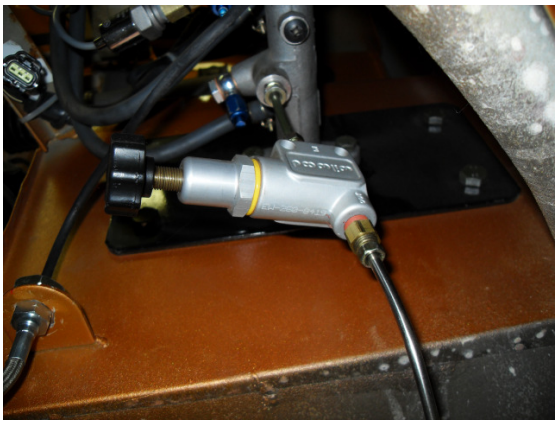

Fig. 6: Wilwood Proportioning Valve Part # 260-8419

Fig 7: Wilwood Proportioning Valve
Part #260-11322

APENDIX A

Initial Testing

Brake system analysis

3 wheeled vehicle, 1 front 2 rear

Hydraulic system calculator

	Front	Rear
foot pressure (lbs)	39	39
mechanical advantage at pedal	4.7	4.7
Booster ratio	1	1
input pressure to master cylinder (lbs)	183.3	183.3
master cylinder bore diameter (in)	0.75	0.75
master cylinder bore area (in^2)	0.44	0.44
Line pressure (psi)	414.91	414.91

Caliper force calculator

caliper piston diameter (in)	2.00	2.00
#2 piston diameter (in)	0.00	0.00
#3 piston diameter (in)	0.00	0.00
effective piston area (in^2)	3.14	3.14
pressure of fluid (psi)	415	415
force on rotor (lbs)	1,303	1,303
coefficient of friction (μ)	0.375	0.375
effective radius of rotor (in)	3.53	3.475
effective stopping torque (in*lbs)	3,451	3,397
effective stopping torque (ft*lbs)	288	283

Weight transfer

Mass on front axle (lbs)	741	741.00
Mass on rear axle (lbs)	1310	1310.00
Weight on each axle at full stop (%)	0.51	0.49
Center of gravity height (in)	20.00	20.00
Center of gravity height (ft)	1.67	1.67
Wheel base (in)	85.00	85.00
Wheel base (ft)	7.08	7.08
Stopping acceleration (g)	0.64	0.64
Stopping acceleration (ft/sec^2)	20.59	20.59
Required torque each wheel based on gs above this (lb-ft)	591.28	281.92
max speed of vehicle	30.00	30.00
Max speed of vehicle (Ft./s)	44.00	44.00
wheel rpm at max speed	477.46	477.46
Stopping distance (m)	28.25	28.25
Stopping distance (ft)	47.01	47.01
Stopping time (s)	2.14	2.14

Proportioned

Brake system analysis

3 wheeled vehicle, 1 front 2 rear

Hydraulic system calculator

	Front	Rear
foot pressure (lbs)	55	55
mechanical advantage at pedal	4.7	4.7
Booster ratio	1	1
input pressure to master cylinder (lbs)	258.5	258.5
master cylinder bore diameter (in)	0.75	0.75
master cylinder bore area (in^2)	0.44	0.44
Line pressure (psi)	585.12	585.12

Caliper force calculator

caliper piston diameter (in)	2.00	2.00
#2 piston diameter (in)	0.00	0.00
#3 piston diameter (in)	0.00	0.00
effective piston area (in^2)	3.14	3.14
pressure of fluid (psi)	585	585
force on rotor (lbs)	1,838	1,838
coefficient of friction (μ)	0.375	0.375
effective radius of rotor (in)	3.53	3.475
effective stopping torque (in*lbs)	4,867	4,791
effective stopping torque (ft*lbs)	406	399

Weight transfer

Mass on front axle (lbs)	741	741.00
Mass on rear axle (lbs)	1310	1310.00
Weight on each axle at full stop (%)	0.47	0.53
Center of gravity height (in)	20.00	20.00
Center of gravity height (ft)	1.67	1.67
Wheel base (in)	85.00	85.00
Wheel base (ft)	7.08	7.08
Stopping acceleration (g)	0.48	0.48
Stopping acceleration (ft/sec^2)	15.44	15.44
Required torque each wheel based on gs above this (lb-ft)	410.84	227.75
max speed of vehicle	30.00	30.00
Max speed of vehicle (Ft./s)	44.00	44.00
wheel rpm at max speed	477.46	477.46
Stopping distance (m)	37.67	37.67
Stopping distance (ft)	62.68	62.68
Stopping time (s)	2.85	2.85

Raybestos Standard Pad

Brake system analysis

3 wheeled vehicle, 1 front 2 rear

Hydraulic system calculator

	Front	Rear
foot pressure (lbs)	55	55
mechanical advantage at pedal	4.7	4.7
Booster ratio	1	1
input pressure to master cylinder (lbs)	258.5	258.5
master cylinder bore diameter (in)	0.75	0.75
master cylinder bore area (in^2)	0.44	0.44
Line pressure (psi)	585.12	585.12

Caliper force calculator

caliper piston diameter (in)	2.00	2.00
#2 piston diameter (in)	0.00	0.00
#3 piston diameter (in)	0.00	0.00
effective piston area (in^2)	3.14	3.14
pressure of fluid (psi)	585	585
force on rotor (lbs)	1,838	1,838
coefficient of friction (μ)	0.5	0.5
effective radius of rotor (in)	3.53	3.475
effective stopping torque (in*lbs)	6,489	6,388
effective stopping torque (ft*lbs)	541	532

Weight transfer

Mass on front axle (lbs)	741	741.00
Mass on rear axle (lbs)	1310	1310.00
Weight on each axle at full stop (%)	0.51	0.49
Center of gravity height (in)	20.00	20.00
Center of gravity height (ft)	1.67	1.67
Wheel base (in)	85.00	85.00
Wheel base (ft)	7.08	7.08
Stopping acceleration (g)	0.64	0.64
Stopping acceleration (ft/sec^2)	20.59	20.59
Required torque each wheel based on gs above this (lb-ft)	591.28	281.92
max speed of vehicle	30.00	30.00
Max speed of vehicle (Ft./s)	44.00	44.00
wheel rpm at max speed	477.46	477.46
Stopping distance (m)	28.25	28.25
Stopping distance (ft)	47.01	47.01
Stopping time (s)	2.14	2.14

Raybestos Premium Pad

Brake system analysis

3 wheeled vehicle, 1 front 2 rear

Hydraulic system calculator

	Front	Rear
foot pressure (lbs)	55	55
mechanical advantage at pedal	4.7	4.7
Booster ratio	1	1
input pressure to master cylinder (lbs)	258.5	258.5
master cylinder bore diameter (in)	0.75	0.75
master cylinder bore area (in^2)	0.44	0.44
Line pressure (psi)	585.12	585.12

Caliper force calculator

caliper piston diameter (in)	2.00	2.00
#2 piston diameter (in)	0.00	0.00
#3 piston diameter (in)	0.00	0.00
effective piston area (in^2)	3.14	3.14
pressure of fluid (psi)	585	585
force on rotor (lbs)	1,838	1,838
coefficient of friction (μ)	0.36	0.36
effective radius of rotor (in)	3.53	3.475
effective stopping torque (in*lbs)	4,672	4,599
effective stopping torque (ft*lbs)	389	383

Weight transfer

Mass on front axle (lbs)	741	741.00
Mass on rear axle (lbs)	1310	1310.00
Weight on each axle at full stop (%)	0.47	0.53
Center of gravity height (in)	20.00	20.00
Center of gravity height (ft)	1.67	1.67
Wheel base (in)	85.00	85.00
Wheel base (ft)	7.08	7.08
Stopping acceleration (g)	0.45	0.45
Stopping acceleration (ft/sec^2)	14.48	14.48
Required torque each wheel based on gs above this (lb-ft)	379.43	216.38
max speed of vehicle	30.00	30.00
Max speed of vehicle (Ft./s)	44.00	44.00
wheel rpm at max speed	477.46	477.46
Stopping distance (m)	40.18	40.18
Stopping distance (ft)	66.86	66.86
Stopping time (s)	3.04	3.04

Napa Altrom metallic

Brake system analysis

3 wheeled vehicle, 1 front 2 rear

Hydraulic system calculator

	Front	Rear
foot pressure (lbs)	55	55
mechanical advantage at pedal	4.7	4.7
Booster ratio	1	1
input pressure to master cylinder (lbs)	258.5	258.5
master cylinder bore diameter (in)	0.75	0.75
master cylinder bore area (in^2)	0.44	0.44
Line pressure (psi)	585.12	585.12

Caliper force calculator

caliper piston diameter (in)	2.00	2.00
#2 piston diameter (in)	0.00	0.00
#3 piston diameter (in)	0.00	0.00
effective piston area (in^2)	3.14	3.14
pressure of fluid (psi)	585	585
force on rotor (lbs)	1,838	1,838
coefficient of friction (μ)	0.395	0.395
effective radius of rotor (in)	3.53	3.475
effective stopping torque (in*lbs)	5,126	5,046
effective stopping torque (ft*lbs)	427	421

Weight transfer

Mass on front axle (lbs)	741	741.00
Mass on rear axle (lbs)	1310	1310.00
Weight on each axle at full stop (%)	0.48	0.52
Center of gravity height (in)	20.00	20.00
Center of gravity height (ft)	1.67	1.67
Wheel base (in)	85.00	85.00
Wheel base (ft)	7.08	7.08
Stopping acceleration (g)	0.50	0.50
Stopping acceleration (ft/sec^2)	16.09	16.09
Required torque each wheel based on gs above this (lb-ft)	432.21	235.12
max speed of vehicle	30.00	30.00
Max speed of vehicle (Ft./s)	44.00	44.00
wheel rpm at max speed	477.46	477.46
Stopping distance (m)	36.16	36.16
Stopping distance (ft)	60.17	60.17
Stopping time (s)	2.74	2.74

Napa TruStop

Brake system analysis

3 wheeled vehicle, 1 front 2 rear

Hydraulic system calculator

	Front	Rear
foot pressure (lbs)	55	55
mechanical advantage at pedal	4.7	4.7
Booster ratio	1	1
input pressure to master cylinder (lbs)	258.5	258.5
master cylinder bore diameter (in)	0.75	0.75
master cylinder bore area (in^2)	0.44	0.44
Line pressure (psi)	585.12	585.12

Caliper force calculator

caliper piston diameter (in)	2.00	2.00
#2 piston diameter (in)	0.00	0.00
#3 piston diameter (in)	0.00	0.00
effective piston area (in^2)	3.14	3.14
pressure of fluid (psi)	585	585
force on rotor (lbs)	1,838	1,838
coefficient of friction (μ)	0.395	0.395
effective radius of rotor (in)	3.53	3.475
effective stopping torque (in*lbs)	5,126	5,046
effective stopping torque (ft*lbs)	427	421

Weight transfer

Mass on front axle (lbs)	741	741.00
Mass on rear axle (lbs)	1310	1310.00
Weight on each axle at full stop (%)	0.48	0.52
Center of gravity height (in)	20.00	20.00
Center of gravity height (ft)	1.67	1.67
Wheel base (in)	85.00	85.00
Wheel base (ft)	7.08	7.08
Stopping acceleration (g)	0.50	0.50
Stopping acceleration (ft/sec^2)	16.09	16.09
Required torque each wheel based on gs above this (lb-ft)	432.21	235.12
max speed of vehicle	30.00	30.00
Max speed of vehicle (Ft./s)	44.00	44.00
wheel rpm at max speed	477.46	477.46
Stopping distance (m)	36.16	36.16
Stopping distance (ft)	60.17	60.17
Stopping time (s)	2.74	2.74

Napa Ultra Premium

Brake system analysis

3 wheeled vehicle, 1 front 2 rear

Hydraulic system calculator

	Front	Rear
foot pressure (lbs)	55	55
mechanical advantage at pedal	4.7	4.7
Booster ratio	1	1
input pressure to master cylinder (lbs)	258.5	258.5
master cylinder bore diameter (in)	0.75	0.75
master cylinder bore area (in^2)	0.44	0.44
Line pressure (psi)	585.12	585.12

Caliper force calculator

caliper piston diameter (in)	2.00	2.00
#2 piston diameter (in)	0.00	0.00
#3 piston diameter (in)	0.00	0.00
effective piston area (in^2)	3.14	3.14
pressure of fluid (psi)	585	585
force on rotor (lbs)	1,838	1,838
coefficient of friction (μ)	0.44	0.44
effective radius of rotor (in)	3.53	3.475
effective stopping torque (in*lbs)	5,710	5,621
effective stopping torque (ft*lbs)	476	468

Weight transfer

Mass on front axle (lbs)	741	741.00
Mass on rear axle (lbs)	1310	1310.00
Weight on each axle at full stop (%)	0.49	0.51
Center of gravity height (in)	20.00	20.00
Center of gravity height (ft)	1.67	1.67
Wheel base (in)	85.00	85.00
Wheel base (ft)	7.08	7.08
Stopping acceleration (g)	0.56	0.56
Stopping acceleration (ft/sec^2)	18.02	18.02
Required torque each wheel based on gs above this (lb-ft)	498.34	256.19
max speed of vehicle	30.00	30.00
Max speed of vehicle (Ft./s)	44.00	44.00
wheel rpm at max speed	477.46	477.46
Stopping distance (m)	32.29	32.29
Stopping distance (ft)	53.73	53.73
Stopping time (s)	2.44	2.44

REFERENCES

§571.122 Standard No. 122; Motorcycle brake systems.

U.S. Department of Transportation; National Highway Traffic Safety Administration Laboratory Test Procedure for FMVSS 122 Motorcycle Brake Systems. August 1, 2006

SAFETY RECALL NOTICE

September 21, 2009

(Owner)
(address)
(city), (state) (Zip)

Dear 2008 ZAP XEBRA Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Recall no 09V-177/12v-230

REASON FOR THIS RECALL

ZAP has decided that certain model year 2008 ZAP XEBRA all-electric vehicle, fail to comply with Federal Motor Vehicle Safety Standard (FMVSS) No. 122, "Motorcycle Brake Systems." These motorcycles require longer distances to stop than the standard allows. Extended stopping distances may result in a vehicle crash.

WHAT WE WILL DO

Your ZAP/Voltage Vehicles dealer will be made ready and available to inspect and replace the brake rotors, pads, master cylinders and the front tire if necessary, of the subject vehicles. We will insure that this work will be done completely free of charge. We will accept claims for reimbursement to owners that have submitted their vehicles for brake repair prior to this announcement and have incurred out of pocket expense in that regard. Please contact ZAP at 1-800-251-4555 if there are complications in setting service appointments with your dealer, or for reimbursement request procedures.

WHAT YOU SHOULD DO

Please contact your ZAP/Voltage Vehicles dealer as soon as possible to arrange a service date so the dealer may order the necessary parts for the repair. Instructions for making this correction have been sent to your dealer and the parts are available.

ZAP – 501 Fourth Street, Santa Rosa, CA 95401
Tel: 707-525-8658, Fax: 707-525-8692
www.zapworld.com - stock symbol OTC BB - ZAAP

The labor time necessary to perform this service correction is developing. Please ask your ZAP/Voltage Vehicles dealer if you wish to know how much estimated time will be needed to schedule and process your vehicle.

Your ZAP/Voltage Vehicles dealer is best equipped to obtain parts and provide service to ensure that your vehicle is corrected as promptly as possible. If, however, you take your vehicle to your dealer on the agreed service date, and they do not remedy this condition within a reasonable time, we recommend you contact our ZAP customer service toll-free line at 1-800-251-4555.

If you are a lessor of vehicles which are equipped with affected braking systems, Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

After contacting your dealer and the ZAP toll-free customer service line, if you are still not able to have the safety defect remedied without charge and/or within a reasonable time, you may wish to write the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE, Washington, DC 20590 or call 1-888-327-4236 (TTY: 1-800-424-9153); or go to http://www.safercar.gov.

We are sorry to cause this inconvenience; however, we have taken this action in the interest of your safety and continued satisfaction with our products.

Sincerely,

ZAP Management

ZAP – 501 Fourth Street, Santa Rosa, CA 95401
Tel: 707-525-8658, Fax: 707-525-8692
www.zapworld.com - stock symbol OTC BB - ZAAP

SAFETY RECALL NOTICE

January 29, 2010

[redacted]

Dear 2008 ZAP XEBRA Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Recall no. 09V-385

REASON FOR THIS RECALL

It has been determined that certain model year 2008 ZAP XEBRA all-electric vehicles fail to comply with Federal Motor Vehicle Safety Standard (FMVSS) No. 122, "Motorcycle Brake Systems." This Standard requires vehicle Master Cylinder contain a separate brake fluid reservoir for each brake circuit. Each reservoir filler opening must also have its own cover, seal and cover retention device. Your 2008 XEBRA is presently equipped with a reservoir containing a single cover, seal and cover retention device. Although we have had no reports of problems and/or failures as of this date, the vehicle recall is important and timely.

WHAT WE WILL DO

Your ZAP/Voltage Vehicles dealer will be made ready and available to inspect and replace or repair the master cylinder fluid reservoir of the subject vehicles. We will insure that this work will be done completely free of charge. We will accept claims for reimbursement to owners that have submitted their vehicles for this brake system repair prior to this announcement and have incurred out of pocket expense in that regard. Please contact ZAP at 1-800-251-4555 if there are complications in setting service appointments with your dealer, or for reimbursement request procedures.

WHAT YOU SHOULD DO

Please contact your ZAP/Voltage Vehicles dealer as soon as possible to arrange a service date so the dealer may order the necessary part(s) for the repair. Instructions for making this correction have been sent to your dealer and the parts will be made available.

ZAP, 501 Fourth Street, Santa Rosa, CA 95401 USA
Phone: 707-525-8658 – Fax: 707-525-8692 – Website www.zapworld.com
Email: mrickard@zapworld.com

The labor time necessary to perform this service correction is two hours. Please ask your ZAP/Voltage Vehicles dealer if you wish to know how much estimated time will be needed to schedule and process your vehicle.

Your ZAP/Voltage Vehicles dealer is best equipped to obtain parts and provide service to ensure that your vehicle is corrected as promptly as possible. If, however, you take your vehicle to your dealer on the agreed service date, and they do not remedy this condition within a reasonable time, we recommend you contact our ZAP customer service toll-free line at 1-800-251-4555.

If you are a lessor of vehicles which are equipped with affected braking systems, Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

After contacting your dealer and the ZAP toll-free customer service line, if you are still not able to have the safety defect remedied without charge and/or within a reasonable time, you may wish to write the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE, Washington, DC 20590 or call 1-888-327-4236 (TTY: 1-800-424-9153); or go to http://www.safercar.gov.

We are sorry to cause this inconvenience; however, we have taken this action in the interest of your safety and continued satisfaction with our products.

Sincerely,

ZAP Management

[redacted]

THIS DOCUMENT HAS A COLORED SECURITY BACKGROUND. DO NOT CASH IF THE WORD "VOID" IS VISIBLE. THIS PAPER HAS AN ARTIFICIAL WATERMARK ON REVERSE SIDE AND IS ALTERATION PROTECTED.

ZAP
501 4TH STREET
SANTA ROSA, CA 95401

NORTH COAST BANK
(707) 528-6300
90 S E ST., STE 110
SANTA ROSA, CA 95404

90-4197/1211

000799

000799

*FOUR THOUSAND FIVE HUNDRED AND XX / 100

DATE	AMOUNT
07/25/2012	*****4,500.00*

PAY TO THE ORDER OF

R. L. POLK & CO.
POLK'S GENERAL COUNSEL
26533 EVERGREEN ROAD SUITE900
Southfield, MI 48076
RLPOLK

VOID AFTER 90 DAYS

⑈000799⑈ ⑆121114974⑆ 2310006958⑈

ZAP

000799

07/25/2012	072512	POLK RECALL DETABASE LICENSE A	4,500.00	0.00	4,500.00

CHECK: 000799 07/25/2012 R. L. POLK & CO. 4,500.00

SUPERIOR PRESS (888) 590-7998 IB1674964

OK to pay
C.S.

POLK® Recall Database License Agreement

Licensee: ZAP Corporation (a CA corporation)
Address: 501 4th Street. Santa Rosa, CA 95401
Contact: Steven Schneider *Phone:* 707-525-8658 x104 *Fax:*

EFFECTIVE DATE: May 22, 2012

Agreed to by:
ZAP CORPORATION:
By: _____
Print Name: Michael Ringstad
Title: CONTROLLER
Date: 7/24/2012

Agreed to by:
R.L. POLK & CO.
By: _____
Print Name: _____
Title: _____
Date: _____

BACKGROUND

I. R. L. Polk & Co. ("Polk") procures, compiles, owns and maintains a proprietary database (the "Recall Database") derived from numerous data sources (collectively the "Vehicle Data") which sources include, but are not limited to, motor vehicle registration, transfer and registration renewal information.

II. Licensee desires to utilize information from the Recall Database in connection with performing, from time-to-time, product recall campaigns including without limitation, recall reminders and customer notification of potential recalls by Licensee or any of its suppliers, as well as special service programs, and other recall-related purposes permitted by 49 CFR 577 et seq., any amendments thereto and any other applicable federal or state laws, (collectively, "Recall Campaigns") applicable to vehicles manufactured by or for Licensee and/or marketed by Licensee that are registered in the U. S. ("Vehicles")

TERMS AND CONDITIONS

1. SCOPE OF AGREEMENT; GRANT OF LICENSE.

A. Polk hereby grants to Licensee and Licensee hereby accepts from Polk a nontransferable, nonexclusive license to use information from the Recall Database, and Polk proprietary information that relates to the compilation or processing of the Recall Database (collectively, "Recall Data") under the terms and conditions set forth herein.

B. Polk shall compile and maintain the Recall Database and provide Licensee with Recall Data for use only in performing, from time-to-time, Recall Campaigns applicable to Vehicles.

C. Polk acknowledges that Licensee may, from time-to-time, be required to perform a motor vehicle recall pursuant to 49 U.S.C. Section 30101 et. seq., as may be amended from time to time, and that Licensee may utilize the information in the Recall Database for purposes of performing the notification required thereby. 49 U.S.C. Section 30119(d)(A) specifies that the manufacturer shall furnish the required notification by first class mail "to each person registered under State law as the owner and whose name and address are reasonably ascertainable by the manufacturer through State records or other available sources." In compiling the Recall Database, Polk utilizes Vehicle Data from numerous sources including, but not limited to, Vehicle Data procured from the states, the District of Columbia, and the Commonwealth of Puerto Rico. All Vehicle Data included in the Recall Database is passed through many stages of data processing and standardization. Licensee acknowledges and agrees: (i) that the records in the Recall Database are Polk proprietary information, and are not the official motor vehicle records of any governmental entity; and (ii) that to the extent that Licensee utilizes the Recall Database as a source of information to be used in lieu of official government records, it has elected to do so solely on its own independent opinion and judgment.

2. INITIAL TERM; SECONDARY TERM: TERMINATION.

A. Initial Term and Secondary Term.

(1) The "Initial Term" of this Agreement shall be for two years commencing May 22, 2012 and ending on May 21, 2014, unless terminated earlier as herein provided. This Agreement can only be renewed upon the mutual agreement of the parties. In the event this Agreement is not renewed after the expiration of the Initial Term, then this

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60700-00-00 Taxes License & Permit $ 4500.-

Agreement shall continue for a "Secondary Term" as defined in Subsection A.(2) below. The term "License Year" shall mean and refer to each twelve (12) month period during the Initial Term and Secondary Term that begins on the anniversary of the Effective Date.

(2) The "Secondary Term" of this Agreement shall commence upon the expiration of the Initial Term and continue until this Agreement is terminated as provided herein. Upon the commencement of the Secondary Term the following terms and conditions shall apply:

(a) During the Secondary Term Licensee may, in accordance with the terms of this Agreement, continue to use and possess the Recall Data that is in its possession at the expiration of the Initial Term; provided, however, such use shall be strictly limited to use in Licensee's recall campaigns as provided in the Section entitled "Use of the Recall Data for Recall Campaigns subsection A". hereof.

(b) Licensee shall not make any further requests for Recall Data under this Agreement and Polk shall cease to provide any further services and data hereunder; provided, however, in the event that Polk receives a request for: (1) Recall Data from Licensee prior to the expiration of the Initial Term, Polk shall process such request in accordance with the Section entitled "Use of the Recall Data for Recall Campaigns" hereof notwithstanding the expiration of the Initial Term; or (2) litigation support in connection with Recall Data provided to Licensee hereunder, Polk shall provide litigation support subject to the payment of fees indicated in Exhibit A, attached hereto and incorporated herein by reference.

(c) Licensee shall pay to Polk all fees and charges, if any at that time, which are accrued and not yet paid hereunder.

B. Termination. Polk may terminate this Agreement as specified in the Section entitled "Default" hereof. Upon the termination of this Agreement the following terms and conditions shall apply:

(1) Licensee shall not have access to any further Recall Data.

(2) Licensee shall pay to Polk all fees and charges, if any at that time, which are accrued up to the effective date of termination and not yet paid hereunder.

(3) Licensee shall discontinue the use of Recall Data that has been provided to Licensee hereunder.

3. **MAINTENANCE OF THE RECALL DATABASE.** Polk will endeavor to procure, under terms deemed reasonable by Polk, Vehicle Data from numerous sources including, but not limited to, the states, the District of Columbia and the Commonwealth of Puerto Rico (subject to the requirements and restrictions of such governmental and other sources) in order to compile and maintain the Recall Database.

A. **The Recall Database; Definition of Model Year**.

(1) Polk will maintain in the Recall Database information applicable to the "Model Year" (defined below) Vehicles. Such information will include name and address of owner, vehicle information and Vehicle Identification Number ("VIN") on said cars and trucks. The Recall Database will be maintained in VIN sequence.

(2) As used herein, the term "Model Year" shall mean and refer to the year of a vehicle as identified by the tenth (10th) position of the VIN for such vehicle.

B. **Updates**. Polk will, on a semi-monthly basis, update the Recall Database with all Vehicle Data received prior to a semi-monthly cutoff.

C. **Duplicate Data**. When multiple names and/or addresses exist on the Recall Database for a requested VIN, Polk will deliver to Licensee the most current information available based on the transaction date reported in the Vehicle Data by the applicable sources thereof. If duplicate transaction dates also exist, Polk will provide both records to Licensee.

D. **Special Situations**.

(1) California.

(a) Included Data. Polk will, during the term of this Agreement, endeavor to procure title data from California, under terms deemed reasonable by Polk, and include such data in the Recall Database (the "CA/Included Data").

(b) CA/Request Data. Licensee may request California title data pertaining to model years that are not included in the CA/Included Data, in accordance with the fee structure set forth in the attached Exhibit A, with such additional requested information herein called the "CA/Request Data". For purposes of this Agreement, CA/Request Data shall mean any and all California data for vehicle model years prior to those purchased by Polk at the time of the request. In 2008, Polk purchased California data for vehicle model years 1986 and forward.

(2) U.S. Territories. Polk will continue to pursue data for inclusion in the Recall Database from the U.S. territories.

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4. ADDITIONAL SERVICES/DATA. During the Initial Term, Polk shall provide Licensee with the following additional services and data:

A. **No Charge Services.**

(1) NCOA. National Change of Address ("NCOA") processing shall be performed on the Recall Data, provided that the Licensee has signed a NCOA Processing Acknowledgement Form, and provided that the selection contains at least 100 records.

(2) Branded Title Codes. Upon Licensee's request, the Recall Data shall include branded titled indicator codes as available.

(3) Lease Data. Subject to consent being given by the manufacturer's leasing company, if a separate legal entity from such manufacturer, to the use of leasing data, Polk will enhance the Recall Data with such leasing data.

B. **Fee Based Services.**

(1) Telephone Appends. Upon Licensee's request, the Recall Data shall include telephone numbers, as available, in accordance with the fee structure described in the attached Exhibit A.

(2) Recall Services. Upon Licensee's request and subject to (i) Licensee's payment of charges associated with Polk's delivery of Recall Services (as defined below) as indicated on the attached Exhibit A, and (ii) approval rights reserved herein by Licensee with respect to all aspects of a Recall Campaign, Polk will have full responsibility for the administration and implementation of such Recall Campaigns, including, without limitation, the preparation of all materials and performance of all services and activities required to effectuate such campaigns ("Recall Services"); provided that all materials prepared by Polk shall be pre-approved in writing by Licensee. Notwithstanding the above, Polk shall not be responsible for or liable to Licensee for the acts or omissions of vendors under contract with Licensee directly. To the extent such acts or omissions impede Polk's ability to effectuate any Recall Campaign as required in this Agreement, Polk shall not be in breach of its obligations hereunder. Polk or its vendors shall submit all materials, including layouts, artwork and other items to be delivered hereunder, to Licensee for prior approval sufficiently in advance to provide adequate review time. Polk's performance hereunder shall include, without limitation, the following:

(a) Enter into contracts with vendors to effectuate the Recall Campaigns, including, without limitation, contracts for any special talent required and for all layouts, art work, copy, printing, mail services, data processing, any required engravings, electrotypes, typography, and any other necessary technical material for use in the Recall Campaigns, except for photography, all of which will be supplied by Licensee and as otherwise agreed.

(b) Check and follow up on all such contracts for proper performance in the best interests of Licensee, including the appearance, accuracy, date, time, position, size, extent, workmanship and mechanical reproduction, as appropriate to the items used in the Recall Campaigns.

(c) Secure all available postal discounts for mailing.

(d) Print and mail Recall Campaign materials to registered owners of Vehicles in accordance with the predefined mail schedules.

(e) Mail reports to authorized dealers of Licensee's Vehicles in accordance with predefined schedules.

(3) Litigation Support. Upon Licensee's request, Polk shall provide litigation support services to Licensee in connection with any claim, action, or lawsuit alleged by or against Licensee, in accordance with the fee structure provided in the attached Exhibit A, provided no claims have been asserted against Polk which would place Polk in an adverse position or conflict of interest with Licensee.

(4) California Air Resources Board (CARB) Report Processing. Upon Licensee's request, Polk shall provide CARB Report processing services to Licensee in accordance with the fee structure provided in the attached Exhibit A.

5. USE OF THE RECALL DATA FOR RECALL CAMPAIGNS.

A. Limitation on Use. Licensee agrees that the Recall Data may be used only in Licensee's Recall Campaigns applicable to Vehicles, and for no other purpose whatsoever. Under no circumstances shall the Recall Data be used in connection with any marketing activities, or combined in any database containing data used for marketing purposes. Licensee or its Authorized Users' (as defined below) use of Recall Data shall comply with all state or federal laws, rules or regulations. Noncompliance with this requirement will result in the immediatetermination of this Agreement.

B. Data Request Options. Licensee may request Recall Data through the following three request options:

(1) VIN, Name and Address Match. Polk matches against VIN, name and address provided by Licensee in a mutually agreeable format and supplies to Licensee current owner information based on such match.

(2) VIN Only Match. Polk matches against VINs provided by Licensee in a mutually agreeable format and supplies to Licensee current owner information based on such match.

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(3) Block VIN Selection. Polk selects records based upon Licensee supplied specifications concerning a block of VINs (e.g., all 1994 Model Year Licensee vehicles of a particular make and model) and supplies to Licensee current owner information based on such match.

C. Order Receipt; Delivery Format.

(1) Upon receipt of the VINs to be matched at a designated Polk office in a format and medium (i.e. magnetic tape, electronic transmission, or FTP) to be mutually agreed upon by the parties or an order from Licensee specifying a block of VINs to be selected, Polk will check the appropriate portions of the Recall Database and endeavor to ship the Recall Data to Licensee no later than the 10th business day after receiving such medium or order. Licensee acknowledges that the desired ten-business day turnaround may be extended due to causes beyond Polk's control.

(2) The Recall Data returned to Licensee will be in a form and format mutually agreed upon by the parties, and will contain name, complete address, make, VIN, and month of registration where available. In addition, when Licensee has requested information on a VIN, name and address match basis pursuant to Subsection B. (1) above, Licensee will be provided match codes indicating: (i) whether the names and addresses shown on the Recall Database are different from those shown on Licensee's records; (ii) whether the names and addresses shown on the Recall Database are the same as those shown on Licensee's records; or (iii) whether Polk could not find a match in the Recall Database.

(3) If Licensee's information request is received by Polk in a format or medium other than what has been mutually agreed upon by the parties, or if, for a reason beyond Polk's reasonable control, Polk must maintain the Recall Database in a manner which requires steps outside the scope of Polk's normal data processing methods, there may be additional costs and additional time required to access the Recall Database information; provided, however, no additional costs will be charged to Licensee without Licensee's prior written consent.

D. Follow-Up Campaigns. During each License Year during the Initial term, Licensee shall have the option of using Recall Data to perform follow-up Recall Campaigns on a semi-annual basis, with the processing of the applicable information requests to be performed in conjunction with Polk's regularly scheduled file updates.

E. State Restrictions. Because the Recall Data is derived from state procured motor vehicle information, Polk is obligated to comply with certain restrictions and/or requirements placed upon the use of such vehicle information by the individual states. Licensee shall strictly comply with all restrictions and requirements now or hereafter imposed upon Polk by any state and made known to Licensee in writing.

6. PRICE AND PAYMENT TERMS.

A. Licensee shall pay Polk the fees and charges for use of the Recall Data as described in the attached Exhibit A.

B. All invoices are due and payable within 30 days after Licensee's receipt thereof. Any amount not paid by Licensee when due hereunder, shall bear interest at the lesser of one and one-half percent (1½%) per month or the highest rate under applicable law.

C. Licensee shall pay when due all sales, use and excise or similar taxes or levies related to this Agreement, exclusive, however, of taxes based on Polk's income. If Polk pays any such tax for which Licensee is responsible hereunder, Licensee agrees to promptly reimburse Polk therefore.

7. TITLE TO THE RECALL DATABASE.

A. Title to the Recall Database and any Recall Data shall at all times remain in Polk. Licensee's rights hereunder to use the Recall Data are personal and nonassignable.

B. The Recall Data shall not be assigned, subleased, sublicensed, rented, offered for sale, sold or disposed of by Licensee in any manner whatsoever. The change of beneficial or record ownership of 50% or more of any class of Licensee's capital structure, the sale of all or substantially all of Licensee's assets, or the merger, consolidation or reorganization of Licensee shall be considered as constituting an improper assignment hereof.

8. NONDISCLOSURE. Licensee acknowledges that Polk has created the Recall Database at considerable time and expense and has a proprietary interest therein. Licensee acknowledges that certain of its employees, agents, contractors, dealers or legal advisors, and governmental and regulatory agencies (collectively "Authorized Users") may become familiar with and have access to the Recall Data, and that Polk may suffer great harm if such Authorized Users disclose any Recall Data to any third party except as contemplated herein. Accordingly, except as expressly permitted hereunder, Licensee agrees to: (i) hold the Recall Data in confidence; (ii) disclose the Recall Data only to Authorized Users to whom knowledge thereof is required for its proper use in accordance with this Agreement; provided however that Licensee may not disclose Recall Data to contractors who are in the business of collecting and cleansing vehicle registration, transfer and registration renewal data for recall related services without Polk's prior written consent; (iii) have such Authorized Users (except Licensee employees or contract workers and governmental and regulatory agencies) enter a written agreement with Licensee whereby such Authorized Users agree to hold the Recall Data in confidence and use it only as permitted by the terms and conditions of this Agreement; and (iv) take

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reasonable steps to prevent the accidental or unauthorized disclosure of the Recall Data. In the event of a breach or a threatened breach of the provisions of this Section, and in addition to any other remedies Polk may have at law or in equity, Polk shall be entitled to an injunction or similar remedy so as to specifically enforce such provisions. Licensee shall be fully responsible to Polk for the breach of this Section by its non-employee Authorized Users as it is for its employee Authorized Users. The obligations of Licensee under this Section shall survive termination of this Agreement. The restrictions on disclosure set forth in this Section shall not apply to information which: (a) becomes publicly known without breach by Licensee hereunder, (b) is or was rightfully in Licensee's possession prior to the disclosure by Polk, (c) becomes rightfully known to Licensee from a source other than Polk, or (d) is required to be disclosed by law, regulation, court or agency order.

9. **WARRANTY: REMEDY.**

A. Polk warrants that it shall collect and present the Recall Data in as current, accurate and complete a manner as may be achieved using the source data and compilation methods normally employed by Polk in the ordinary course of its business; provided, however, the Recall Database is not warranted as being error free, nor is it warranted as providing complete coverage for all motor vehicles. THE FOREGOING IS A LIMITED WARRANTY AND POLK MAKES AND LICENSEE RECEIVES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. Licensee acknowledges that the Vehicle Data Polk obtains from numerous sources contains information, including VIN information, that is erroneous, incomplete or missing altogether, and as a result, information on the affected vehicles may not be provided in response to a Licensee information request. Polk's data compilation methods may, from time-to-time, rehabilitate such erroneous or incomplete information to a form that may allow for the provision of information on some of the affected vehicles in response to a Licensee information request. However, Licensee acknowledges that: (i) any such Polk effort to rehabilitate erroneous or incomplete information may not result in a usable vehicle record; (ii) it is not possible for Polk to attempt to rehabilitate all erroneous or incomplete records; and (iii) Polk does not warrant or represent that a given record which may have benefited from such rehabilitation efforts at a given point in time, will be handled or treated with the same or any rehabilitation efforts upon Polk's receipt of a subsequent transfer or renewal record referencing the applicable vehicle.

B. The warranty set forth in Subsection A. above shall not apply to the extent: (i) the Recall Data is not used in accordance with the specifications and procedures specified in advance in writing by Polk; (ii) the Recall Data has been altered or modified by Licensee; or (iii) malfunction of Licensee's equipment or software, or any other cause within the control of Licensee shall cause the Recall Data to be in error.

C. Polk's sole obligation and Licensee's sole remedy under the foregoing warranty is strictly and exclusively limited to the correction of any errors in the Recall Data which are made known to Polk by written notice from Licensee describing such errors in sufficient detail with any necessary backup information or documents; provided, however, some of said corrections shall be dependent on the availability of same from the source of the applicable data. Polk reserves the right to satisfy its warranty obligations in full by refunding a prorated portion of the fee paid by Licensee for the particular Recall Data that is in error.

10. **LIMITATION OF LIABLITY; INDEMNIFICATION.**

A. The express warranty and remedy stated in the Section entitled "Warranty; Remedy" hereof is in lieu of all liabilities and obligations of Polk arising out of or in connection with this Agreement. In no event shall Polk be liable for claims for any indirect, incidental, special or consequential damages, including, but not limited to, lost business and lost profits, whether foreseeable or not. Furthermore, in no event shall Polk's liability for damages, regardless of the form of action, exceed the charges paid by Licensee to Polk for the applicable initial Recall Campaign and/or follow-up campaigns that are the source of such damages.

B. Licensee agrees to indemnify and hold Polk harmless from and against any losses, damages, liabilities and expenses based upon claims made by any third party and arising out of the performance of Polk's obligations hereunder or Licensee's use of the Recall Data. Licensee's obligations under this Subsection B. shall survive the termination of this Agreement.

11. **DEFAULT.**

A. Licensee shall be in default upon the occurrence of any one of the following events: (i) failure to perform its obligations under Sections entitled "Title to Recall Database" and "Nondisclosure" hereof (in which case the default is immediate without any cure period); (ii) the failure to pay any fees or charges hereunder within ten (10) days following the receipt of written notice that such was not received on the due date thereof; (iii) the failure to perform any other term, condition or covenant of this Agreement and such failure shall continue for a period of 15 days after receipt of written notice thereof; (iv) if Licensee ceases the conduct of active business; (v) if any proceedings under the U. S. Bankruptcy Code or other insolvency laws shall be instituted by or against Licensee, or if a receiver shall be appointed for Licensee or any of its assets or properties; or (vi) if Licensee shall make an assignment for the benefit of its creditors, or admit in writing its inability to pay its debts as they come due.

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B. Upon any Licensee default, Polk may, by written notice to Licensee, terminate this Agreement. Upon any such termination, Polk may declare all accrued license fees and other charges immediately due and payable. Any such termination: (i) shall be without prejudice to any other rights or remedies which Polk may have against Licensee with respect to such default; and (ii) shall not entitle Licensee to a refund, in whole or in part, of the license fees or other charges hereunder. Licensee shall pay all costs, expenses, losses, damages and reasonable attorney fees incurred by Polk in the exercise of any of its rights or remedies hereunder, or as a result of enforcing any of the terms, conditions or provisions hereof. No remedy referred to in this Section is intended to be exclusive, but shall be cumulative and in addition to any other remedy referred to herein or otherwise available to Polk at law or in equity.

12. <u>AUDIT</u> Licensee agrees that Polk, or a designee of Polk, shall have the right at any time following the date of this Agreement, but no more than once every 12 months, to audit Licensee's use of the Recall Data, security controls relative to the Recall Data and related activity logs during normal business hours upon five (5) days prior written notice to Licensee. The foregoing notwithstanding, no such limitations on audit frequency or prior written notice shall be required if in Polk's reasonable judgment Licensee has violated the terms of this Agreement or a state or federal agency requests such audit. Before any Polk designee will be permitted access to Licensee's applicable books and records, such designee must have signed and delivered to Licensee a commercially reasonable confidentiality agreement. In the event Polk conducts the audit, the nondisclosure obligations of the Section of this Agreement entitled "Nondisclosure" shall apply to Polk with respect to all information reviewed or disclosed in any audit; provided that such obligations shall not apply to information which: (i) has become publicly known without breach of this Agreement or any other confidentiality obligation by Polk; (ii) has been given to Polk by a third party with a legal right to so disclose; (iii) was known to Polk at the time of disclosure as evidenced by its written records; (iv) was independently developed by Polk without reference to Licensee's confidential information; (v) is necessary to establish or enforce the rights of Polk under this Agreement; or (vi) must be disclosed by Polk to comply with any requirement of law, an audit request of any state or data provider, or an order of a court or administrative body (provided that Polk will endeavor to notify Licensee of the issuance of such order). Polk shall not be required to execute a separate nondisclosure agreement.

13. <u>GENERAL PROVISIONS</u>.

A. Neither party shall be liable to the other for any delay in the time for performance of its obligations under this Agreement if such delay arises out of circumstances beyond its reasonable control including but not limited to strikes, wars, acts of terrorism, natural disasters, equipment failure or breakdown, governmental regulation or interference, or other calamity. In the event of any such excusable delay, the time for performance of such obligations shall be extended for a period equal to the length of the delay. The party whose performance is hampered by the excusable delay shall provide written notice to the other party as soon as reasonably possible of the occurrence of the delay and provide a description thereof.

B. The relationship of the parties created by this Agreement is that of independent contractor and not that of employer/employee, principal/agent, partnership, joint venture or representative of the other. Neither party shall represent to third parties that it is the representative of the other in any manner or capacity whatsoever.

C. All notices shall be given in writing by personal delivery, fax, or sent (postage prepaid with return receipt requested) by certified mail, or express delivery service, and shall be delivered, faxed or addressed to such other party at the address or fax number specified below or at such other address or fax number as either party may notify the other from time to time in accordance with the Section. Notices shall be deemed to have been received: (i) if personally delivered, upon delivery; (ii) if sent by facsimile, on the date faxed (with receipt confirmed); or (iii) if sent by certified mail or express delivery service, upon delivery thereof as evidenced by return receipt or delivery confirmation. Each party may change its nominee and/or address by written notice in accordance with this Section. Notice to Polk shall be sent to: R. L. Polk & Co., Attn.: Polk's General Counsel, 26533 Evergreen Road Suite 900, Southfield, MI 48076. Notice to Licensee shall be sent to the address indicated on the first page.

D. Section headings are for convenience only and will not be construed as a part of thisAgreement.

E. This Agreement shall be governed by and construed in accordance with the laws of the State of Michigan without giving effect to choice of law provisions.

F. The terms, covenants and conditions contained herein constitute the complete and exclusive statement of the terms hereof, and supersedes all prior oral and written statements of any kind made by the parties or their representatives with respect to the subject matter hereof. In the event of any conflict between the terms and conditions of this Agreement and any Licensee purchase order, the terms and conditions of this Agreement shall prevail. No statement or writing subsequent to the date of this Agreement purporting to modify or add to the terms and conditions hereof shall be binding unless consented to in writing by duly authorized representatives of Licensee and Polk in a document making specific reference to this Agreement.

G. Licensee's obligations under the Sections entitled "Initial Term; Secondary Term; Termination" "Use of the Recall Data for Recall Campaigns", "Title to the Recall Database" and "Limitation of Liability; Indemnification" shall survive any termination of this Agreement.

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H. This Agreement may be executed in one or more counterparts, each of which when executed shall be deemed to be an original, but all of which together shall constitute one and the same instrument. Signed, digitized copies of this Agreement, and other associated documents, shall legally bind the parties to the same extent as original documents."

I. No action arising out of this agreement, regardless of form, may be brought by either party more than two (2) years after the cause of action has accrued.

J. No delay or failure of either party in exercising any rights hereunder, and no partial or single exercise thereof shall be deemed of itself to constitute a waiver of such right or any other right hereunder. No waiver shall be effective unless made in writing and signed by an authorized representative. In the event that any court declares any provision of this Agreement void or unenforceable, the validity of any other provisions and to the entire Agreement shall not be affected thereby.

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EXHIBIT A

to the POLK® Recall Database License Agreement dated as of May 22, 2012
between R. L. POLK & Co. ("Polk") and ZAP USA

LICENSE FEES FOR RECALL DATA

1. **Annual Licensee Fee**. During the Initial Term, Licensee shall pay an Annual License Fee in the amount of $4,500 for the maximum records of 650 VINS, where the VINS, names and addresses are matched. Processing price over the maximum VINS shall be mutually agreed upon by the parties.

2. **Litigation Support**. In the event that Licensee requests research, expert testimony, document review, etc., in conjunction with litigation involving a Licensee Recall Campaign, Licensee agrees to pay Polk according to the following fee schedule in addition to pre-approved reasonable out-of-pocket and travel expenses incurred in providing such services:

(1)	Consultation/research – senior recall manager	$275/hr
(2)	Programming fee	$130/hr
(3)	Processing charges	Rates set forth in Section 2.(A) – (E) above
(4)	Legal document review and deposition/trial preparation	$300/hr
(5)	Trial or deposition fee	$2,500 per day

   B. The fee for normal recall processing, shall be the same fees as set forth above in Section entitled "Processing Charges" above.

   C. Additional processing charges will result if the individual recall is required to be processed without the California information due to time constraints and then re-processed with the California data later.

   D. All California data, whether provided as CA/Included Data or CA/Request Data, shall be subject to the same data processing steps as other data in the Recall Database, with the data resulting from such processing being Polk proprietary data, subject to the same terms and conditions applicable to the Recall Data as set forth herein.

3. **Fees for Puerto Rico Data**: Polk shall notify Licensee of the additional fees Licensee must pay if it wishes to receive Puerto Rico data from the Recall Database.

FEES FOR RECALL SERVICES

Each Recall Campaign is quoted separately based on the record count and print quantity that varies by campaign.

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Equipment Safety Recall Quarterly Report Information[1]

Required per 49 CFR Part 573.7

Report Date: 05/07//2012 **calendar Quarter:** 1st Qtr 2012

Safety Recall Quarterly Report from 01/01/2012 **through** 03/31/2012

Manufacturer: QingQi Group Motorcycle CO. Ltd

Report Author: Michael Ringstad **Phone:** (707) 525-8658 x229

Recall Subject: ZAP XEBRA ALL ELECTRIC MOTORCYCLE

1. **NHTSA Safety Recall Campaign Number:** 09V385

   Also, for completeness, if your company has assigned a code number to this campaign, please provide your code: N/A

2. **(a) The date notification to purchasers began:** 01/2010

   (b) The date notification of purchasers was completed: CONTINUING

3. **The Total Number of Items of Equipment Involved:** 693

   The total number of items involved in the subject campaign (including all items sold or distributed to purchasers, dealers, distributors, and similar entities beyond the immediate control of the manufacturer/importer).

   Number of Items Returned from Inventory or Remedied Prior to Sale: 49

   Includes (a) the total number of items returned from Manufacturer, Distributor, Dealer or Retailer inventory or (b) otherwise remedied prior to sale to consumers.

4. **(a) Total Number Inspected & Remedied:** 107

   Total number of items which were inspected and/or otherwise repaired or remedied.

   (b) Total Number Inspected & NOT REQUIRING REMEDY: 0

   Total number of items involved in the recall and inspected, but determined to NOT REQUIRE REMEDIAL or recall repair work.

5. **Items Determined to be Unreachable**

Total Number Exported: 6

Total Number Stolen: 0

Total Number Scrapped: 17

Total Number Unable to Notify: 45

Total Number Otherwise Unreachable: 59

Describe Other: All remedies have been completed with this recall

[1]Any questions please contact Mrs. Kelly Schuler or Ms. Jennifer Timian at (202) 366-5227 or by FAX at (202) 366-7882 or email to rmd.odi@dot.gov.

№ JD067136

(2003)量认(鲁)字(Z0030)号

(2003)质检验字 05 号

检 验 报 告

Test Report

德质检(JD)字(06)第 136 号

样品名称：斑 马 电 动 三 轮 车
Product : Xebra Electric Three-wheel Vehicle

型号规格： 5Kw
Model/Type: 5Kw

受检单位：山东金大路车业有限公司
Client: Shandong Jindalu Vehicle CO.Ltd .

检验类别： 委托检验
Test Kind: Entrusted

德州市产品质量监督检验所
检验专用章

德 州 市 产 品 质 量 督 检 验 所
Dezhou Institute of Supervision & Inspection on Product Quality

注 意 事 项
NOTICES

1、报告无“检验专用章”、“测试专用章”或检验单位公章无效。

A report is invalid without the stamp of the Special Chop of Test Report or the official seal of the inspection agency.

2、报告不得部分复制。复制报告未重新加盖专用章或公章无效。

A reproduced report must be re-stamped with the Special Chop of test Report or the official seal of the inspection agency, otherwise it is invalid.

3、报告无主检、审核、签发人签字无效。

A report is invalid without signatures of the inspector, the verifier and ratifier.

4、委托检验报告不得作为解决质量争议的依据。

The entrusting test report can not make foundation of any quality dispute.

5、报告涂改无效。

A report is invalid if altered.

6、委托检验仅对来样负责。

In entrusting test, we are just responsible for the samples which clients give us.

7、对检验报告若有异议，应于收到报告之日起十五日内向实施监督检查的部门提出，逾期不予受理。

Any disputes to the test report should be claimed in written to the department that acts supervision in 15 days from the day the report is received. Overdue claim would not be accepted.

地址：德州市德城区天衢工业园格瑞德路 8 号
Address: 8 Geruide Road,Dezhou City,Shandong
邮政编码：253023
Zip code: 253023
电话： 0534-2730088（业务办公室）
Phone:
传真： 0534-2363683
Fax:
E-mail: sd-dzzjs@163.com

德 州 市 产 品 质 量 监 督 检 验 所

Dezhou Quality Supervision & Testing Center

检 验 报 告

Test Report

№ JD067136

样品名称 Sample name	斑马电动三轮车 Xebra Electrical Vehicle	检验类别 Inspection sort	委托检验 Commission inspection
委托单位 Commission corporation	山东金大路车业有限公司 Shandong Jindalu Vehicle Co., Ltd.	型号规格 Model	5KW
生产单位 Manufacturer	山东金大路车业有限公司 Shandong Jindalu Vehicle Co., Ltd	样品等级 Sample grade	合格品 Qualified product
委托单位地址 Commission corporation address	德州市德城区长庄南路 Changzhuang South Street,Dezhou City	商 标 Trademark	/
抽样地点 Sample place	/	送样人员 Sample personnel	郑国强 Guoqiang Zheng
抽样基数 Sample base	/	送样日期 Sample date	2006.06.27
样品数量 Sample quantity	1 辆	生产日期 date of production	/
样品特性和状态 Sample state	完好 fine	样品编号 Sample number	JD067136
检验环境 Inspection environment	符合要求 pass muster	检验日期 Test date	2006.06.28 ～ 2006.07.20
检验依据 Standards	企业相关要求 standard of corporation		
检验要求 Items	检验：部分性能 Inspection: partial capability		
检验结论 Conclusion	该样品按企业相关要求检验，所检项目符合要求。 Inspect the sample with the standard of corporation,all the items inspected have pass muster （检验专用章）		
备注 Remarks	仅对来样负责 only charge for the sample		

批准：Inspector: Laicui Lu 日期：Date: 2006.07.23 2006.27.23

审核：Corrector: Shohui Yuan 日期：Date: 2006.07.23 2006.07.23

主检：Approver: Chuntian Cui 日期：Date: 2006.07.23 2006.07.23

德 州 市 产 品 质 量 监 督 检 验 所

Dezhou Quality Supervision & Testing Center

检 验 报 告（续页）

Test Report（continuum）

№ JD067136

斑马车测试报告的最终数据

Final Datasheet of Motorcycle Test

车辆识别号：LAEMB24686G017192　　车辆型号：5KW斑马电动车

VIN：LAEMB24686G017192　　Vehicle model：5KW Electrical Vehicle

测试实验室：德州市产品质量监督检验所　Test laboratory：Dezhou Quality Supervision & Testing Center

项目 Items	测试标准 Test standard	结果 Result 通过/没通过 Pass/Fail	备注 Note
刹车系统检测 Brake system	企业相关要求 standard of corporation	通过 Pass	/
不同配重、时速的制动距离 Braking distance in different load and speed	企业相关要求 standard of corporation	通过 Pass	/
最高时速 Max. speed	企业相关要求 standard of corporation	通过 Pass	/
速度表校核 Speedometer calibration	企业相关要求 standard of corporation	通过 Pass	/
侧倾试验 List test	企业相关要求 standard of corporation	通过 Pass	/
坡上驻车试验 Parking on the slop test	企业相关要求 standard of corporation	通过 Pass	/
最小转弯半径 Turning circle radii min	企业相关要求 standard of corporation	通过 Pass	/
反光镜 Rearview	企业相关要求 standard of corporation	通过 Pass	/
加速度 Acceleration	企业相关要求 standard of corporation	通过 Pass	/
爬坡能力 Grand ability	企业相关要求 standard of corporation	通过 Pass	/
DOT部件检测 DOT parts detection	企业相关要求 standard of corporation	通过 Pass	后附照片 subjoin photoes

测试用设备 Testing equipment

设备种类 Type of equipment	型号 Model numbe	生产商 Manufacturer	准确度 Precision
汽车拖拉机综合测试仪	CTM-2002A/B	淄博科创电子有限公司 Zibo Kechuang electronical Co., Ltd.	速度能达到0.1km/h 距离能达到1cm Distance: 1cm Speed: 0.1 km/h
踏板力计	TL-1	淄博科创电子有限公司 Zibo Kechuang electronical Co., Ltd.	±2%

检验人员：崔春田、马成强

Inspector：Chuntian Cui, Chengqiang Ma

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检 验 报 告（续页）
Test Report（continuum）

数据1
DATA SHEET 1
测试总结
TEST SUMMARY

车辆型号：5KW斑马电动车 测试日期：2006.06.28～2006.07.19
Vehicle model：5KW Electrical Vehicle Test Date：2006.06.28～2006.07.19

测试总结 Testsummary		速度 Speed 英里/小时 mph	刹车距离 Stop.dist （m）	最大刹车踏板用力 Max.brakepedal force （Kg）	测试次数 Number of tests
第一次有效性测试 1st Effectivenesstest （刹车系统） (Service Brake system)		30.0	12.4	270	6
		37.5	18.3	270	6
第一次有效性测试 1st Effectivenesstest （部分系统） (partial)	前 F	30.0	29.9	270	6
		37.5	59.6	270	6
	后 R	30.0	14.8	270	6
		37.5	25.4	270	6
磨合程序 Burnish Procedure		30.0	10.2	270	200
整个系统第二次有效性测试 2nd EffectivenessTest		30.0	9.5	270	6
		37.5	14.2	270	6
整车系统的磨损和恢复测试 Fade and Recovery		30.0	8.4	270	3
		37.5	12.9	270	10
		30.0	8.5	270	5
最终有效性测试 Final Effectiveness Test （整体系统）		30.0	9.0	270	6
		37.5	13.2	270	6
水恢复--整体系统 Water Recovery		30.0	12.3	270	5

检验人员：崔春田、马成强

Inspector：Chuntian Cui, Chengqiang Ma

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数据2
DATA SHEET 2
整个系统第一次有效性测试
FIRST EFFECTIVENESS TEST

车辆型号：5KW斑马电动车　　气温：33℃　　日期：2006.07.01
Vehicle model：5KW Electrical Vehicle　　Amblent Temp: 33℃　　Date：2006.07.01
轮胎压力　前轮：250KPa　　左后轮：250KPa　　右后轮：250KPa
Tire Pressure Front：250KPa　　Rear(L)：250KPa　　Rear(R)：250KPa

要求：
Requirements：
A、进行以下制动：
以30.0英里/小时制动6次，在4秒内停住车，确保至少有一次刹车距离是在16.46m以内
6 stops from 30mph，stop within 4 seconds，ensure 30mph within 16.46m one time at least.
B、进行以下制动：
以37.5英里/小时制动6次，在4秒内停住车，确保至少有一次刹车距离是在29.27m以内
6 stops from 37.5mph，stop within 4 seconds，ensure 37.5mph within 29.27m one time at least.

30.0英里/小时数据：
30.0MPH DATA：

测试次数 Run No.	速度Speed 英里/小时 mph	制动距离 Stop Dist (m)	最大刹车杆用力 Max. Lever Force (N)
1	30.0	21.45	270
2	30.0	21.70	
3	30.0	12.28	
4	30.0	12.05	
5	30.0	12.20	
6	30.0	12.45	

37.5英里/小时数据：
37.5MPH DATA:

测试次数 Run No.	速度Speed 英里/小时 mph	制动距离 Stop Dist (m)	最大刹车杆用力 Max. Lever Force (N)
1	37.5	18.0	270
2	37.5	18.1	
3	37.5	18.5	
4	37.5	18.4	
5	37.5	18.4	
6	37.5	18.1	

检验人员：崔春田、马成强

Inspector：Chuntian Cui, Chengqiang Ma

检 验 报 告（续页）
Test Report（continuum）

数据3
DATA SHEET 3
部分系统第一次有效性测试
PARTIAL FIRST EFFECTIVENESS TEST

车辆型号：5KW斑马电动车 气温：35℃ 日期：2006.07.11
Vehicle model：5KW Electrical Vehicle Amblent Temp: 35℃ Date：2006.07.11
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

要求：
Requirements：
(1) 断开后刹车系统
disconnect rear brake system
A、进行以下制动：
以30.0英里/小时制动6次，确保至少有一次刹车距离是在36.89m以内
6 stops from 30mph,ensure 30mph within 36.89m one time at least.
B、进行以下制动：
以37.5英里/小时制动6次，确保至少有一次刹车距离是在65.85m以内
6 stops from 37.5mph,ensure 37.5mph within 65.85m one time at least.
30.0英里/小时数据：
30.0MPH DATA：

测试次数 Run No.	速 度Speed 英里/小时 mph	制动距离 Stop Dist (m)	最大刹车杆用力 Max. Lever Force (N)
1	30.0	27.3	270
2	30.0	28.8	
3	30.0	32.4	
4	30.0	27.5	
5	30.0	29.7	
6	30.0	33.8	

37.5英里/小时数据：
37.5MPH DATA:

测试次数 Run No.	速 度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	最大刹车杆用力 Max. Lever Force (N)
1	37.5	60.7	270
2	37.5	58.5	
3	37.5	60.6	
4	37.5	61.0	
5	37.5	55.2	
6	37.5	61.7	

数据3
DATA SHEET 3
部分系统第一次有效性测试
PARTIAL FIRST EFFECTIVENESS TEST

(2) 断开前刹车系统
disconnect front brake system
A、进行以下制动：
以30.0英里/小时制动6次，确保至少有一次刹车距离是在36.89m以内
6 stops from 30mph,ensure 30mph within 36.89m one time at least
B、进行以下制动：
以37.5英里/小时制动6次，确保至少有一次刹车距离是在65.85m以内
6 stops from 37.5mph,ensure 37.5mph within 65.85m one time at least.
30.0英里/小时数据：
30.0MPH DATA：

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	最大刹车杆用力 Max. Lever Force (N)
1	30.0	14.8	270
2	30.0	14.8	
3	30.0	15.2	
4	30.0	14.7	
5	30.0	15.8	
6	30.0	13.5	

37.5英里/小时数据：
37.5MPH DATA:

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	最大刹车杆用力 Max. Lever Force (N)
1	37.5	24.1	270
2	37.5	24.1	
3	37.5	27.3	
4	37.5	25.2	
5	37.5	27.3	
6	37.5	24.1	

检验人员：崔春田、马成强

Inspector：Chuntian Cui, Chengqiang Ma

德州市产品质量监督检验所 Dezhou Institute of Supervision & Inspection on Product Quality

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数据4
DATA SHEET 4
磨合测试
BURNISH PROCEDURE

车辆型号：5KW斑马电动车　　气温：34℃～35 ℃　　日期：2006.07.12～14
Vehicle Model：5KW Electrical Vehicle　　Amblent Temp：34℃～35℃　Date：2006.07.12～14
轮胎压力　前轮：250KPa　左后轮：250KPa　右后轮：250KPa
Tire Pressure　Front：250KPa　Rear(L)：250KPa　Rear(R)：250KPa
要求：Requirements：
以30.0英里/小时刹车进行200次停车测试，在4秒内停住车，然后立即加速到30.0英里/小时，在以最高时速持续1英里，然后刹车。速度不超过30.0英里/ 小时。
200 stops from 30pmh，stop within 4 seconds，then accelerate to 30pmh at once，in max. speed for one mile，then stop。the speed not exceed 30mph.
数据：
DATA：

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	制动时间 Stop time (S)	最大刹车杆用力 Max. Lever Force (N)
1	30.0	10.35	1"70	
25	30.0	10.00	1"58	
50	30.0	11.10	1"83	
75	30.0	9.00	1"45	
100	30.0	10.90	1"80	270
125	30.0	10.10	1"54	
150	30.0	10.40	1"78	
175	30.0	9.50	1"41	
200	30.0	10.45	1"67	

检验人员：崔春田、马成强
Inspector：Chuntian Cui, Chengqiang Ma

数据5
DATA SHEET 5
整个系统第二次有效性测试
SECOND EFFECTIVENESS TEST

车辆型号：5KW斑马电动车 气温：32 ℃ 日期：2006.07.15
Vehicle Model：5KW Electrical Vehicle Amblent Temp：32 ℃ Date：2006.07.15
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

要求：
Requirements：
A、进行以下制动：
以30.0英里/小时制动6次，在4秒内停住车，确保至少有一次刹车距离是在13.11m以内
6 stops from 30mph, stop within 4 seconds，ensure 30mph within 13.11m one time at least.
B、进行以下制动：
以37.5英里/小时制动6次，在4秒内停住车，确保至少有一次刹车距离是在22.87m以内
6 stops from 37.5mph, stop within 4 seconds，ensure 37.5mph within 22.87m one time at least.

30.0英里/小时数据：30.0MPH DATA：

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	制动时间 Stop time (S)	最大刹车杆用力 Max. Lever Force (N)
1	30.0	8.00	1"36	270
2	30.0	9.35	1"40	
3	30.0	10.25	1"41	
4	30.0	9.20	1"41	
5	30.0	10.45	1"40	
6	30.0	10.00	1"58	

37.5英里/小时数据：37.5MPH DATA:

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	制动时间 Stop time (S)	最大刹车杆用力 Max. Lever Force (N)
1	37.5	13.10	2"16	270
2	37.5	16.80	2"33	
3	37.5	15.10	1"90	
4	37.5	15.20	1"95	
5	37.5	13.20	2"00	
6	37.5	12.00	1"82	

检验人员：崔春田、马成强
Inspector：Chuntian Cui, Chengqiang Ma

数据6
DATA SHEET 6
整个系统的磨损和恢复测试
FADE AND RECOVERY TEST

车辆型号：5KW斑马电动车 气温：32℃ 日期：2006.07.16
Vehicle Model：5KW Electrical Vehicle Amblent Temp：32℃ Date：2006.07.16
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa
要求：
Requirements：
A、进行以下制动：
以30.0英里/小时制动3次，在5秒内停住车
3 stops from 30mph, stop within 5 seconds
B、进行以下制动：
以37.5英里/小时制动10次，在3秒内停住车
10stops from 37.5mph, stop within3 seconds
C、进行以下制动：
以30.0英里/小时制动5次，在4秒内停住车
5stops from 30mph, stop within4 seconds
30.0英里/小时数据：
30.0MPH DATA：

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	制动时间 Stop time (S)	最大刹车杆用力 Max. Lever Force (N)
1	30.0	8.00	1"35	270
2	30.0	8.80	1"59	
3	30.0	8.50	1"64	

德州市产品质量监督检验所 Dezhou Institute of Supervision & Inspection on Product Quality

检 验 报 告（续页）
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数据6
DATA SHEET 6
整个系统的磨损和恢复测试
FADE AND RECOVERY TEST

37.5英里/小时数据：
37.5MPH DATA：

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	制动时间 Stop time (S)	最大刹车杆用力 Max. Lever Force (N)
1	37.5	12.8	2"02	270
2	37.5	11.3	1"95	
3	37.5	12.1	1"98	
4	37.5	13.9	2"20	
5	37.5	12.5	2"10	
6	37.5	13.2	1"95	
7	37.5	13.3	1"92	
8	37.5	14.6	2"30	
9	37.5	11.4	1"64	
10	37.5	13.5	1"90	

30.0英里/小时数据：
30.0MPH DATA:

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	制动时间 Stop time (S)	最大刹车杆用力 Max. Lever Force (N)
1	30.0	7.5	1"40	270
2	30.0	9.3	1"67	
3	30.0	8.0	1"42	
4	30.0	8.4	1"43	
5	30.0	9.3	1"65	

检验人员： 崔春田、马成强

Inspector： Chuntian Cui, Chengqiang Ma

检 验 报 告（续页）
Test Report（continuum）

№ JD067136

数据7
DATA SHEET 7
最终有效性测试
FINAL EFFECTIVENESS TEST

车辆型号：5KW斑马电动车　　气温：33 ℃　　日期：2006.07.17
Vehicle Model：5KW Electrical Vehicle　　Amblent Temp：33 ℃　　Date：2006.07.17
轮胎压力　前轮：250KPa　　左后轮：250KPa　　右后轮：250KPa
Tire Pressure　Front：250KPa　　Rear(L)：250KPa　　Rear(R)：250KPa

要求：
Requirements：
A、进行以下制动：
以30.0英里/小时制动6次，在4秒内停住车，确保至少有一次刹车距离是在13.11m以内
6 stops from 30mph,stop within 4 seconds，ensure 30mph within 13.11m one time at least
B、进行以下制动：
以37.5英里/小时制动6次，在4秒内停住车，确保至少有一次刹车距离是在22.86m以内
6 stops from 37.5mph, stop within 4 seconds，ensure 37.5mph within 22.86m one time at least.

30.0英里/小时数据：30.0MPH DATA：

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	制动时间 Stop time (S)	最大刹车杆用力 Max. Lever Force (N)
1	30.0	7.4	1"40	270
2	30.0	10.2	1"75	
3	30.0	8.9	1"54	
4	30.0	9.0	1"56	
5	30.0	8.5	1"54	
6	30.0	9.7	1"66	

37.5英里/小时数据：37.5MPH DATA:

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	制动时间 Stop time (S)	最大刹车杆用力 Max. Lever Force (N)
1	37.5	12.0	1"84	270
2	37.5	14.3	1"98	
3	37.5	12.6	1"88	
4	37.5	13.6	2"00	
5	37.5	13.0	1"76	
6	37.5	13.5	2"01	

检验人员：崔春田、马成强
Inspector：Chuntian Cui, Chengqiang Ma

检 验 报 告（续页）
Test Report（continuum）

数据8
DATA SHEET 8
水恢复-整体系统
WATER RECOVERY TEST

车辆型号：5KW斑马电动车 气温：33℃ 日期：2006.07.17
Vehicle Model：5KW Electrical Vehicle Amblent Temp：33℃ Date：2006.07.17
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa
要求：
Requirements：
将前刹车在水中浸泡2分钟，将后刹车在水中浸泡2分钟，确保前后浸泡的时间总共不超过7分钟。以30.0英里/小时制动5次。
Immerse rear brake in water fully released for 2 minutes followed by immersion of the front brake in water fully released for 2 minutes.，ensure the total time not exceed 7 minutes。5 stops from 30mph.
30.0英里/小时数据：
30.0MPH DATA：

测试次数 Run No.	速度 Speed 英里/小时 mph	制动距离 Stop Dist (m)	制动时间 Stop time (S)
1	30.0	12.35	/
2	30.0	12.20	/
3	30.0	12.05	/
4	30.0	12.17	/
5	30.0	12.65	/

检验人员：崔春田、马成强

Inspector：Chuntian Cui, Chengqiang Ma

德州市产品质量监督检验所 Dezhou Institute of Supervision & Inspection on Product Quality

数据9
DATA SHEET 9
最终测试
FINAL INSPECTION

车辆型号：5KW斑马电动车 气温：33℃ 日期：2006.07.18
Vehicle Model：5KW Electrical Vehicle Amblent Temp：33℃ Date：2006.07.18
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

要求：
Requirements：
1、在主刹车泵、活塞、刹车线、联接部位周围检查是否有刹车液泄漏
inspect the wheel cylinder, master cylinder, brake cable and joint part for brake fluid leakage.
2、在刹车部件和刹车线，包括底盘结构处是否有损坏和破裂
inspect the braking parts, brake cable and chassis for break.
3、给整个刹车安装和刹车部件拍照
take pictures for the whole braking assemble and parts.
4、拆开刹车盘检查是否有磨损等
disassemble and inspect the brake disc for abrasion etc.
5、检查刹车片的厚度
inspect the thickness of the brake disc

结果：
Conclusion：
1、主刹车泵、活塞、刹车线和联接部位周围等通过检查,未发现刹车液泄漏现象。
through inspect the wheel cylinder, master cylinder, brake cable and joint part . don't find brake fluid leakage.
2、刹车部件、刹车线和底盘结构处无损坏或破裂。
braking parts, brake cable and chassis no break.
3、刹车盘轻微磨损。
brake disc have light abrasion。
4、刹车厚度磨损：
Braking thickness abrasion:

试验前厚度：15.3mm
The thickness before test：15.3mm
试验后厚度：15.05mm
The thickness after test：15.05mm
试验前、后的厚度之差为：0.25mm
The difference of thickness between before test and after test：0.25mm

检验人员：崔春田、马成强
Inspector：Chuntian Cui, Chengqiang Ma

德州市产品质量监督检验所 De zhou Institute of Supervision & Inspection on Product Quality

数据10
DATA SHEET 10
最终测试
FINAL INSPECTION

车辆型号：5KW斑马电动车 气温：_____ 日期：2006.07. 20

Vehicle Model：5KW Electrical Vehicle Amblent Temp：_____ Date：2006.07. 20

轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa

Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

所有DOT部件的标示见附件图片

All the marking of the DOT parts should see the attached pictures

检验人员：崔春田、马成强

Inspector：Chuntian Cui, Chenggiang Ma

德州市产品质量监督检验所 De zhou Institute of Supervision & Inspection on Product Quality

数据11
DATA SHEET 11
不同配重、时速下的制动测试
UNDER THE DIFFERENT LOAD AND SPEED STOP TEST

车辆型号：5KW斑马电动车 气温：32 ℃ 日期：2006.06.28
Vehicle Model：5KW Electrical Vehicle Amblent Temp：32 ℃ Date：2006.06.28
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

要求：
Requirements：
A、空载情况下进行以下制动
Stop with no-float load
1、以30.0公里/小时制动2次
2 stops from 30km/h
2、以40.0公里/小时制动2次
2 stops from 40km/h
3、以50.0公里/小时制动2次
2 stops from 50km/h
B、满载（三人）情况下进行以下制动
Stop with fully loaded(3 persons)
1、以30.0公里/小时制动2次
2 stops from 30km/h
2、以40.0公里/小时制动2次
2 stops from 40km/h
3、以50.0公里/小时制动2次
2 stops from 50km/h

空载数据:
No-float load data:

速 度 Speed 公里/小时 (km/h)	制动距离 Stop Dist （m）		制动时间 Stop Time （S）
	1	2	
30.0	5.10	5.05	/
40.0	7.25	8.10	/
50.0	10.65	10.35	/

德州市产品质量监督检验所 Dezhou Institute of Supervision & Inspection on Product Quality

数据11
DATA SHEET 11
不同配重、时速下的制动测试
UNDER THE DIFFERENT LOAD AND SPEED STOP TEST

满载（三人）数据:
Fully loaded (3 persons) data:

速 度 Speed 公里/小时 (km/h)	制动距离 Stop Dist （m）		制动时间 Stop Time （S）
	1	2	
30.0	5.70	5.70	/
40.0	9.55	9.45	/
50.0	11.35	11.40	/

检验人员：崔春田、马成强
Inspector：Chuntian Cui, Chengqiang Ma

数据12
DATA SHEET 12
最高时速测试
MAX. SPEED TEST

车辆型号：5KW斑马电动车 气温：32℃ 日期：2006.06.29
Vehicle Model：5KW Electrical Vehicle Ambient Temp：32℃ Date：2006.06.29
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

要求:
Requirements：
车辆在正常状态下，从起动开始，所能达到的最高速度
the max.speed from start-up within the order.
数据:
DATA：

最高时速 Max. Speed	英里/小时 mph	60.0

检验人员：崔春田、马成强
Inspector：Chuntian Cui, Chengqiang Ma

德州市产品质量监督检验所 Dezhou Institute of Supervision on Product Quality & Inspection

数据13
DATA SHEET 13
速度表校核
SPEEDOMETER CALIBRATION

车辆型号：5KW斑马电动车 气温：34℃ 日期：2006.07.05
Vehicle Model：5KW Electrical Vehicle Amblent Temp：34℃ Date：2006.07.05
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

项目 Item	要求 Requirement （km/h）	校核 Calibration （km/h）
速度表 speedometer	40.0	39.6

检验人员：崔春田、马成强
Inspector：Chuntian Cui, Chengqiang Ma

数据14
DATA SHEET 14
侧倾测试
LIST TEST

车辆型号：5KW斑马电动车 气温：35℃ 日期：2006.07.08
Vehicle Model：5KW Electrical Vehicle Amblent Temp：35℃ Date：2006.07.08
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa
结果：
Conclusion：
当侧倾高度为470mm、侧倾角度为22° 45'时，车辆稳定不倾翻。
At the list height 470mm, list angle 22° 45, the vehicle stabilize 。
检验人员：崔春田、马成强
Inspector：Chuntian Cui, Chengqiang Ma

德州市产品质量监督检验所 Dezhou Quality Supervision & Inspection Product Quality Institute of Supervision

数据15
DATA SHEET 15
坡上驻车测试
PARKING ON THE SLOPE TEST

车辆型号：5KW斑马电动车 气温：35℃ 日期：2006.07.07
Vehicle Model：5KW Electrical Vehicle Amblent Temp：35℃ Date：2006.07.07
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa
要求：
Requirements：
在18° 坡上用手刹确保车5分钟不移动，正反两个方向测试。
ensure the vehicle no move in 5 minutes on the upgrade and the downgrade by hand brake
结果：
Conclusion：
上坡制动/5min—不移动；下坡制动/5min—不移动
upgrade stop/5min—no move; downgrade stop/5min—no move
检验人员：崔春田、马成强
Inspector：Chuntian Cui, Chengqiang Ma

数据16
DATA SHEET 16
最小转弯半径测试
TURNING CIRCLE RADII MIN TEST

车辆型号：5KW斑马电动车 气温：33℃ 日期：2006.07.10
Vehicle Model：5KW Electrical Vehicle Amblent Temp：33℃ Date：2006.07.10
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa
数据：
DATA：

方向 Orientation	最小转弯半径 Turning Circle Radii Min （m）
左向 Orientation(L)	3.95
右向 Orientation(R)	3.38

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数据17
DATA SHEET 17
反光镜测试
REARVIEW TEST

车辆型号：5KW斑马电动车 气温：33℃ 日期：2006.07.10
Vehicle Model：5KW Electrical Vehicle Amblent Temp：33℃ Date：2006.07.10
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

结果：
Conclusion：
基本满足要求。
Basically meet the specification。

数据18
DATA SHEET 18
加速时间测试
ACCELERATION TIME TEST

车辆型号：5KW斑马电动车 气温：33℃ 日期：2006.07.19
Vehicle Model：5KW Electrical Vehicle Amblent Temp：33℃ Date：2006.07.19
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

要求：
Requirements：
A、从起动开始，速度达到20英里/小时所需的时间
the time from start-up to 20mph
B、从起动开始，速度达到30英里/小时所需的时间
the time from start-up to 30mph
C、从起动开始，速度达到40英里/小时所需的时间
the time from start-up to 40mph

数据：
DATA：

速度Speed（英里/小时）(mph)	加速时间 Acceleration Time（S）
0～20	3"07
0～30	12"73
0～40	/
注：车的最高车速为60公里/小时，40英里/小时已超出车的最高速度。	

德州市产品质量监督检验所 Dezhou Quality Supervision on Product Inspection Institute

检 验 报 告（续页）
Test Report（continuum）

数据19
DATA SHEET 19
爬坡能力测试
GRAND ABLILITY TEST

车辆型号：5KW斑马电动车 气温：35℃ 日期：2006.07.10
Vehicle Model：5KW Electrical Vehicle Amblent Temp：35℃ Date：2006.07.10
轮胎压力 前轮：250KPa 左后轮：250KPa 右后轮：250KPa
Tire Pressure Front：250KPa Rear(L)：250KPa Rear(R)：250KPa

要求：
Requirements：
A、距离18° 坡道15m处起动
start-up at 15m distance the ramp of 18°
1、以30.0英里/小时起动
start-up at 30mph
2、以37.5英里/小时起动
start-up at 37.5mph
B、在与18° 坡道零距离处起动
start-up at 0m distance the ramp of 18°
1、观察车辆能否爬上坡顶
observe the vehicle can reach the top of slope or not

数据：
DATA：
距离坡道15m处起动
start-up at 15m distance the ramp

速度Speed（英里/小时）(mph)	是否通过坡道 Pass Ramp(Pass/Fail)
30.0	通过 Pass
37.5	通过 Pass

在与坡道零距离处起动
start-up at 0m distance the ramp

结果：
Conclusion：
车辆能顺利爬上坡顶。
The vehicle can reach the top of slope .

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FMVSS 122 - DATA SHEET 8 (1 of 2)
SECOND EFFECTIVENESS TEST (S7.5)

VEHICLE:	ZAP XEBRA	NHTSA NUMBER:		DATE:	12/27/11	ROAD PFC:	
AMBIENT TEMPERATURE	70°F	WIND VELOCITY:		TIRE PRESSURE (FRONT):		TIRE PRESSURE (REAR):	
ODOMETER START:		ODOMETER FINISH:					

TEST CONDITIONS:

Test Speed	30 mph	60 mph
Initial Brake Temperature (IBT)	130°F to 150°F	130°F to 150°F
Runs Required	6	6
Maximum Stop Distance Allowed	43 feet	185 feet
Maximum Allowable Brake Actuation Forces	Hand Lever Force ≤ 55 lbs. Foot Pedal Force ≤ 90 lbs	Hand Lever Force ≤ 55 lbs. Foot Pedal Force ≤ 90 lbs
Wheel Lockup	No	No
Brakes Utilized	Hand and Foot	**Hand and Foot**

TEST CONDITIONS:

Test Speed	80 mph	> 95 mph
Initial Brake Temperature (IBT)	130°F to 150°F	130°F to 150°F
Runs Required	6	6
Maximum Stop Distance Allowed	43 feet	185 feet
Maximum Allowable Brake Actuation Forces	Hand Lever Force ≤ 55 lbs. Foot Pedal Force ≤ 90 lbs	Hand Lever Force ≤ 55 lbs. Foot Pedal Force ≤ 90 lbs
Wheel Lockup	No	No
Brakes Utilized	Hand and Foot	**Hand and Foot**

30 MPH DATA —

Stop No.	Test Speed (mph)	Initial Brake Temp. (F)		Actual Stopping Distance (ft)	Corrected Stopping Distance (ft)	Lever Force (lb		Pedal Force (lb		Vehicle Decel. (fpsps)		Wheel Lockup	Stay In Lane
		Front	Rear			Max	Avg	Max	Avg	Max	Avg		
1	30	102	91	32					40			NO	
2	30	122	105	35					45			NO	
3	30	136	114	34					40			NO	
4	30	152	157	39					50			NO	
5	30	166	122	40					75			NO	
6	30	170	135	40					55			NO	

WILWOOD ENGINEERING
12/27/11
TESTED BY: T. PORTO
S. RICHEY

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COMPOSE

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Why this ad

KARCO Inbox x

Kelsey Chiu kchiu@karco.com Feb 3

to me, Mike

Joe,

Below is the test data for the first effectiveness testing.

Test Run	Speed	Stopping Distance	Pedal Force
1	29.95	48.53	140
2	30.57	58.69	118
3	30.70	47.49	137
4	30.85	67.28	136
5	31.08	53.34	121
6	30.69	53.43	100
7	30.27	74.44	125
8	30.69	96.64	61
9	30.73	88.35	82
10	30.64	88.05	82
11	30.63	82.48	70
12	30.83	86.96	73

Because the test failed on the early portion of testing, we can offer the following. You can take the vehicle and make your modifications or repairs and then bring it back to start testing again. There will be a $1000 re-starting fee that will basically cover the work that will need to be redone.

Please let me know how you want to proceed.

Best Regards,

Kelsey Chiu
Engineering Department Supervisor
KARCO Engineering, LLC.
(760) 246-1672

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Repair Your PC Before it Gets Worse Follow These 3 Steps Immediately!

Stop No.	Speed (mph)	Initial Brake Temp. (F)		Actual Stopping Distance	Corrected Stopping Distance	Lever Force		Pedal Force		Vehicle Decel (fpsps)		Wheel Lockup	Stay in Lane
		Front	Rear			Max	Avg	Max	Avg	Max	Avg		
1	29.9	134.0	83.5 / 92.7	49.6	49.6	0.0	0.0	161.8	117.1	-58.8	-13.0	No	Yes
2	30.6	138.1	83.0 / 96.8	49.8	49.8	0.0	0.0	152.3	115.5	-50.9	-12.6	No	Yes
3	30.7	146.0	82.6 / 102.4	48.6	48.6	0.0	0.0	165.1	118.8	-60.8	-12.5	No	Yes
4	30.7	134.1	84.6 / 101.5	56.7	56.7	0.0	0.0	148.0	104.6	-45.0	-45.0	No	Yes
5	31.1	137.7	83.9 / 104	54.2	54.2	0.0	0.0	172.1	117.0	-51.3	-12.1	No	Yes
6	29.7	145.1	83.5 / 108.5	54.3	54.3	0.0	0.0	143.6	106.4	-46.9	-11.8	No	Yes
7	30.3	138.8	76.5 / 83.5	75.4	75.4	0.0	0.0	135.1	102.2	-33.0	-10.6	No	Yes
8	30.7	140.6	71.1 / 91.6	91.6	91.6	0.0	0.0	93.3	72.9	-38.5	-8.7	No	Yes
9	30.7	149.7	71.3 / 94.1	89.1	89.1	0.0	0.0	93.8	78.1	-30.0	-9.1	No	Yes
10	30.6	133.7	77.1 / 81.9	88.7	88.7	0.0	0.0	106.7	70.4	-27.0	-9.1	No	Yes
11	30.6	136.6	75.4 / 83.0	83.1	83.1	0.0	0.0	102.6	79.0	-27.9	-9.5	No	Yes
12	30.8	141.8	75.6 / 89.1	87.8	87.8	0.0	0.0	98.2	74.7	-25.5	-10.8	No	Yes

Joseph Rajakaruna <jrajakaruna@zapworld.com>

KARCO

Kelsey Chiu <kchiu@karco.com> **Fri, Feb 3, 2012 at 4:57 PM**
Reply-To: kchiu@karco.com
To: Rajakaruna Joe <jrajakaruna@zapworld.com>
Cc: Mike Dunlap <mdunlap@karco.com>

Joe,

Below is the test data for the first effectiveness testing.

Test Run	Speed	Stopping Distance	Pedal Force
1	29.95	48.53	140
2	30.57	58.69	118
3	30.70	47.49	137
4	30.85	67.28	136
5	31.08	53.34	121
6	30.69	53.43	100
7	30.27	74.44	125
8	30.69	96.64	61
9	30.73	88.35	82
10	30.64	88.05	82
11	30.63	82.48	70
12	30.83	86.96	73

Because the test failed on the early portion of testing, we can offer the following. You can take the vehicle and make your modifications or repairs and then bring it back to start testing again. There will be a $1000 re-starting fee that will basically cover the work that will need to be redone.

Please let me know how you want to proceed.

Best Regards,

Kelsey Chiu

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Engineering Department Supervisor
KARCO Engineering, LLC.
(760) 246-1672

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Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	0	0.317521	0	5.25344
0	0.01	0.369716	0.00504	5.511976
0	0.02	0.406377	0.010731	5.95518
0	0.03	0.414455	0.016751	5.95518
0	0.04	0.421911	0.022884	5.992114
0	0.05	0.482805	0.029518	5.881312
0	0.06	0.503932	0.036755	5.881312
0	0.07	0.552399	0.044501	5.918246
0	0.08	0.562962	0.05268	6.065981
0	0.09	0.574768	0.061024	6.084448
0	0.1	0.572904	0.06944	6.084448
0	0.11	0.599623	0.078038	6.213715
0	0.12	0.612672	0.086929	6.379917
0	0.13	0.633799	0.096069	6.213715
0	0.14	0.669217	0.105625	6.250649
0	0.15	0.643119	0.115249	6.139848
0	0.16	0.657411	0.124786	6.232182
0	0.17	0.656168	0.134419	6.269116
0	0.18	0.730111	0.144585	6.472251
0	0.19	0.815239	0.155917	6.30605
0	0.2	0.84755	0.168111	6.564585
0	0.21	0.906581	0.180975	6.638452
0	0.22	0.903474	0.194249	6.509185
0	0.23	0.930814	0.2077	6.36145
0	0.24	0.962504	0.221584	6.583052
0	0.25	0.979902	0.235829	6.472251
0	0.26	1.028369	0.250556	6.638452
0	0.27	1.076215	0.26599	6.823121
0	0.28	1.082429	0.28182	6.896988
0	0.29	1.107283	0.297877	6.786187
0	0.3	1.14643	0.314405	6.823121
0	0.31	1.184955	0.331502	6.749253
0	0.32	1.212917	0.349086	6.730786
0	0.33	1.242742	0.367094	6.583052
0	0.34	1.271325	0.385531	6.619985
0	0.35	1.295559	0.404354	6.583052
0	0.36	1.322278	0.423552	6.656919
0	0.37	1.353968	0.443178	6.712319
0	0.38	1.393114	0.463323	7.11859
0	0.39	1.382551	0.483678	6.76772
0	0.4	1.457737	0.504507	6.675386
0	0.41	1.485699	0.526092	6.453784
0	0.42	1.524845	0.548169	6.453784
0	0.43	1.54535	0.570684	6.435317
0	0.44	1.555292	0.593422	6.324516
0	0.45	1.646012	0.616898	6.250649
0	0.46	1.69945	0.641432	6.379917
0	0.47	1.754131	0.666758	6.435317
0	0.48	1.764073	0.692558	6.601519
0	0.49	1.838637	0.718978	6.675386

Incoming Speed	30.5	mph
Start of Stop	1145.3	
End of Stop	1212.5	
Stopping Distance	67.1	ft
Pedal Force	142.5	lb

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	0.5	1.854172	0.746058	6.656919
0	0.51	1.856036	0.773267	6.490718
0	0.52	1.915066	0.800921	7.044723
0	0.53	1.956077	0.82931	6.823121
0	0.54	1.964154	0.858058	7.06319
0	0.55	2.012621	0.887221	7.672596
0	0.56	2.057981	0.917072	7.838797
0	0.57	2.085322	0.947456	7.709529
0	0.58	2.12074	0.978301	7.506394
0	0.59	2.171692	1.009779	7.155524
0	0.6	2.199033	1.041831	7.303259
0	0.61	2.250606	1.074461	7.450994
0	0.62	2.300316	1.107835	7.617195
0	0.63	2.335113	1.141828	7.321726
0	0.64	2.354997	1.176222	7.41406
0	0.65	2.363075	1.210821	7.229392
0	0.66	2.399736	1.245749	7.100124
0	0.67	2.414027	1.28105	7.137057
0	0.68	2.461251	1.316802	7.340193
0	0.69	2.503505	1.35321	7.044723
0	0.7	2.528981	1.390115	7.137057
0	0.71	2.562535	1.427452	7.229392
0	0.72	2.597332	1.465291	7.321726
0	0.73	2.617215	1.503531	6.915455
0	0.74	2.623429	1.541963	7.11859
0	0.75	2.67811	1.580841	6.823121
0	0.76	2.699858	1.620279	6.472251
0	0.77	2.780015	1.660465	6.398384
0	0.78	2.834074	1.701635	6.213715
0	0.79	2.886269	1.743584	6.435317
0	0.8	2.911124	1.786098	6.232182
0	0.81	2.896211	1.828685	6.490718
0	0.82	2.91361	1.871291	6.656919
0	0.83	2.908017	1.913983	6.509185
0	0.84	2.968912	1.95708	6.509185
0	0.85	3.037884	2.00113	6.306049
0	0.86	3.091322	2.046078	6.36145
0	0.87	3.096293	2.091453	6.619986
0	0.88	3.114312	2.136998	6.490718
0	0.89	3.127983	2.182775	6.583052
0	0.9	3.147245	2.228793	6.490718
0	0.91	3.161537	2.275057	6.416851
0	0.92	3.211246	2.321791	6.379917
0	0.93	3.265306	2.369286	6.490718
0	0.94	3.300724	2.417437	6.65692
0	0.95	3.410085	2.466649	6.435318
0	0.96	3.420648	2.516741	7.026256
0	0.97	3.431212	2.566988	6.823121
0	0.98	3.452338	2.617468	6.841588
0	0.99	3.461659	2.66817	7.118591

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	1	3.502048	2.719238	7.081657
0	1.01	3.51634	2.770706	7.727996
0	1.02	3.574748	2.822707	7.746463
0	1.03	3.613273	2.875419	7.321726
0	1.04	3.642478	2.928628	7.137058
0	1.05	3.682867	2.982347	7.487927
0	1.06	3.734441	3.036741	7.949598
0	1.07	3.763024	3.091722	8.097333
0	1.08	3.773587	3.146991	8.004999
0	1.09	3.754946	3.2022	8.060399
0	1.1	3.809005	3.257669	7.746463
0	1.11	3.83821	3.313749	8.263535
0	1.12	3.927687	3.370698	8.060399
0	1.13	3.986096	3.428733	7.857264
0	1.14	4.012194	3.487387	8.1712
0	1.15	4.028971	3.546356	7.949598
0	1.16	4.031456	3.605465	8.282001
0	1.17	4.071845	3.66489	7.986532
0	1.18	4.096079	3.724788	8.152734
0	1.19	4.163187	3.785356	7.838797
0	1.2	4.170643	3.84647	7.76493
0	1.21	4.163187	3.907585	7.727996
0	1.22	4.209168	3.968982	7.340193
0	1.23	4.293675	4.031337	7.173991
0	1.24	4.329093	4.09457	7.284792
0	1.25	4.353327	4.158241	7.450994
0	1.26	4.357055	4.222117	7.06319
0	1.27	4.387502	4.286244	6.71232
0	1.28	4.398065	4.350672	6.601519
0	1.29	4.460202	4.415632	6.564586
0	1.3	4.561486	4.481791	6.730787
0	1.31	4.602496	4.548994	6.860055
0	1.32	4.591933	4.61642	6.730787
0	1.33	4.573913	4.683636	6.860055
0	1.34	4.579506	4.750761	6.952389
0	1.35	4.659041	4.81851	6.472251
0	1.36	4.709372	4.887212	6.379917
0	1.37	4.727392	4.956415	6.102914
0	1.38	4.757218	5.025969	6.250649
0	1.39	4.787044	5.09596	6.232182
0	1.4	4.828676	5.166475	6.509185
0	1.41	4.824947	5.237269	6.342983
0	1.42	4.865958	5.308335	6.472251
0	1.43	4.903861	5.37998	6.342983
0	1.44	4.957921	5.4523	6.324516
0	1.45	5.020679	5.525477	6.564585
0	1.46	5.023786	5.599136	6.490718
0	1.47	5.017572	5.672773	6.656919
0	1.48	5.07101	5.746756	6.638452
0	1.49	5.067903	5.821108	6.638452

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	1.5	5.122584	5.895838	6.509185
0	1.51	5.146818	5.971147	6.546118
0	1.52	5.186585	6.046925	6.472251
0	1.53	5.208955	6.123159	6.158315
0	1.54	5.258664	6.199922	6.213715
0	1.55	5.287247	6.277258	6.232182
0	1.56	5.309617	6.354969	6.453784
0	1.57	5.330743	6.432998	6.619986
0	1.58	5.328879	6.511169	6.76772
0	1.59	5.364919	6.58959	6.379917
0	1.6	5.36554	6.66828	6.232182
0	1.61	5.438241	6.747507	6.139848
0	1.62	5.495407	6.827688	6.619986
0	1.63	5.568729	6.908825	6.638452
0	1.64	5.607875	6.990786	6.804654
0	1.65	5.620302	7.073126	6.896988
0	1.66	5.642672	7.155721	6.749253
0	1.67	5.659449	7.238604	6.786187
0	1.68	5.67809	7.321746	6.583052
0	1.69	5.716615	7.405307	6.41685
0	1.7	5.760732	7.489474	6.509185
0	1.71	5.794908	7.574215	6.435317
0	1.72	5.82784	7.659449	6.398384
0	1.73	5.926017	7.745644	6.41685
0	1.74	5.912347	7.832458	6.527651
0	1.75	5.931609	7.919314	6.250649
0	1.76	5.932852	8.00632	6.41685
0	1.77	5.930988	8.093322	6.342983
0	1.78	5.97262	8.180615	6.287583
0	1.79	5.991261	8.26835	6.121381
0	1.8	6.09068	8.356951	6.269116
0	1.81	6.139147	8.446636	6.324516
0	1.82	6.138526	8.536673	6.36145
0	1.83	6.173323	8.626959	6.232182
0	1.84	6.223032	8.717866	6.342983
0	1.85	6.288276	8.809616	6.269116
0	1.86	6.301325	8.901939	6.287583
0	1.87	6.315617	8.994464	6.287583
0	1.88	6.372162	9.087507	6.379917
0	1.89	6.392667	9.181116	6.583052
0	1.9	6.427464	9.27513	6.583052
0	1.91	6.477795	9.369769	6.527652
0	1.92	6.497679	9.464922	6.546118
0	1.93	6.557952	9.560664	6.36145
0	1.94	6.510106	9.656496	6.287583
0	1.95	6.533097	9.752146	6.139848
0	1.96	6.526883	9.847919	6.195248
0	1.97	6.562923	9.943911	5.95518
0	1.98	6.613254	10.04054	5.95518
0	1.99	6.615118	10.13754	5.936713

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	2	6.657371	10.23488	6.065981
0	2.01	6.735664	10.33309	6.01058
0	2.02	6.76549	10.4321	5.936713
0	2.03	6.799665	10.53158	6.084447
0	2.04	6.843782	10.63163	5.899779
0	2.05	6.874851	10.73223	5.752044
0	2.06	6.922696	10.83342	5.844379
0	2.07	6.945066	10.93511	6.01058
0	2.08	6.983591	11.03726	6.084448
0	2.09	6.999746	11.1398	5.844379
0	2.1	7.042	11.24277	5.65971
0	2.11	7.066855	11.34624	5.825912
0	2.12	7.121535	11.45029	5.825912
0	2.13	7.15074	11.55495	6.029047
0	2.14	7.176216	11.66001	6.139848
0	2.15	7.179323	11.76529	6.158315
0	2.16	7.194857	11.8707	6.065981
0	2.17	7.224061	11.97644	6.195249
0	2.18	7.258858	12.08265	6.250649
0	2.19	7.284334	12.1893	6.453785
0	2.2	7.284956	12.29614	6.693853
0	2.21	7.284956	12.40298	6.509185
0	2.22	7.342743	12.51025	6.36145
0	2.23	7.392453	12.61831	6.472251
0	2.24	7.44092	12.72709	6.379917
0	2.25	7.461425	12.83637	6.379917
0	2.26	7.473231	12.94589	6.472251
0	2.27	7.55401	13.05609	6.453785
0	2.28	7.537854	13.16677	6.269116
0	2.29	7.588185	13.27769	6.01058
0	2.3	7.59502	13.38903	6.195249
0	2.31	7.614283	13.50057	6.121381
0	2.32	7.670827	13.61266	6.102914
0	2.33	7.72178	13.72554	6.158315
0	2.34	7.737314	13.83891	6.213716
0	2.35	7.7311	13.95234	6.121381
0	2.36	7.788888	14.06615	6.269116
0	2.37	7.819956	14.18062	6.342983
0	2.38	7.83984	14.29546	6.453784
0	2.39	7.895764	14.41085	6.509185
0	2.4	7.923725	14.52686	6.472251
0	2.41	8.008232	14.6437	6.269116
0	2.42	8.022523	14.76126	6.509185
0	2.43	8.031844	14.87899	6.675386
0	2.44	8.097709	14.99727	6.823121
0	2.45	8.067262	15.11581	6.767721
0	2.46	8.126914	15.23457	6.823121
0	2.47	8.140584	15.35387	6.878522
0	2.48	8.143691	15.47328	6.564585
0	2.49	8.198993	15.59313	6.453784

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	2.5	8.216391	15.71351	6.656919
0	2.51	8.279771	15.83448	6.583052
0	2.52	8.280393	15.95592	6.527652
0	2.53	8.327617	16.07771	6.527652
0	2.54	8.337559	16.19993	6.638453
0	2.55	8.381055	16.32253	6.509185
0	2.56	8.377948	16.44543	6.656919
0	2.57	8.377948	16.56831	6.619986
0	2.58	8.382919	16.69122	6.656919
0	2.59	8.461833	16.81475	6.453784
0	2.6	8.494766	16.93909	6.786187
0	2.61	8.556903	17.06414	6.527652
0	2.62	8.571194	17.18975	6.287583
0	2.63	8.592942	17.31562	6.509185
0	2.64	8.569951	17.44148	6.435317
0	2.65	8.581758	17.56726	6.158315
0	2.66	8.571816	17.69305	6.047514
0	2.67	8.610341	17.81905	6.158315
0	2.68	8.656943	17.94568	5.881312
0	2.69	8.703546	18.07299	5.918246
0	2.7	8.7371	18.20089	6.176782
0	2.71	8.78246	18.32936	6.36145
0	2.72	8.805451	18.45834	6.324516
0	2.73	8.861996	18.5879	6.379917
0	2.74	8.894929	18.71812	6.453784
0	2.75	8.882501	18.84849	6.324516
0	2.76	8.879394	18.97874	6.453784
0	2.77	8.944638	19.10945	6.435317
0	2.78	8.978192	19.24089	6.342983
0	2.79	9.008018	19.37279	6.490718
0	2.8	9.060835	19.50529	6.527651
0	2.81	9.099981	19.63847	6.490718
0	2.82	9.113651	19.77204	7.026256
0	2.83	9.133535	19.90585	7.229391
0	2.84	9.206236	20.04034	7.044723
0	2.85	9.223013	20.17549	7.100123
0	2.86	9.241654	20.3109	7.266325
0	2.87	9.291363	20.4468	7.672595
0	2.88	9.28515	20.58303	7.524861
0	2.89	9.27148	20.71911	7.432526
0	2.9	9.314976	20.85542	7.801863
0	2.91	9.308762	20.99199	7.46946
0	2.92	9.329267	21.12867	7.340192
0	2.93	9.341073	21.26558	7.377126
0	2.94	9.352258	21.40267	7.487927
0	2.95	9.392026	21.54013	7.432526
0	2.96	9.344801	21.67753	7.358659
0	2.97	9.350394	21.81463	7.340192
0	2.98	9.383948	21.95201	7.266325
0	2.99	9.429929	22.08998	7.450993

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	3	9.496416	22.22877	7.377126
0	3.01	9.504494	22.36811	7.340192
0	3.02	9.520028	22.50763	7.266325
0	3.03	9.552339	22.64749	6.970856
0	3.04	9.603292	22.78797	7.044723
0	3.05	9.624418	22.92897	7.06319
0	3.06	9.650516	23.07032	7.007789
0	3.07	9.65673	23.21191	6.804654
0	3.08	9.680963	23.35372	6.41685
0	3.09	9.68842	23.49576	6.749253
0	3.1	9.728809	23.63815	6.841588
0	3.11	9.692769	23.78058	6.76772
0	3.12	9.703333	23.92281	6.823121
0	3.13	9.732537	24.06534	6.860055
0	3.14	9.771062	24.20837	6.71232
0	3.15	9.787218	24.3518	6.786187
0	3.16	9.794053	24.49539	6.804654
0	3.17	9.813937	24.63919	6.730787
0	3.18	9.827607	24.78322	6.693853
0	3.19	9.828228	24.92737	6.638452
0	3.2	9.881045	25.0719	6.379917
0	3.21	9.957473	25.21738	6.490718
0	3.22	9.969901	25.36352	6.564585
0	3.23	10.00656	25.51001	6.675386
0	3.24	10.03204	25.65696	6.490718
0	3.25	10.02147	25.80402	6.546118
0	3.26	10.0221	25.95101	6.435317
0	3.27	10.06683	26.09832	6.619986
0	3.28	10.09604	26.24619	6.638453
0	3.29	10.07305	26.39409	6.71232
0	3.3	10.09915	26.54202	6.416851
0	3.31	10.08237	26.69002	6.509185
0	3.32	10.11965	26.83817	6.453784
0	3.33	10.14823	26.9868	6.71232
0	3.34	10.2054	27.13606	6.675386
0	3.35	10.25697	27.28612	6.675386
0	3.36	10.27686	27.4367	6.675386
0	3.37	10.31041	27.58767	6.749254
0	3.38	10.30482	27.73885	6.952389
0	3.39	10.2868	27.88985	7.00779
0	3.4	10.31538	28.04094	7.026256
0	3.41	10.31476	28.19223	7.524861
0	3.42	10.33278	28.34364	7.395593
0	3.43	10.35639	28.49536	7.487927
0	3.44	10.39616	28.64755	7.41406
0	3.45	10.43655	28.80032	7.524861
0	3.46	10.51236	28.95395	7.635662
0	3.47	10.58506	29.10866	8.004999
0	3.48	10.58444	29.2639	8.041933
0	3.49	10.55523	29.41893	8.337402

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	3.5	10.55896	29.57376	8.374336
0	3.51	10.58941	29.72885	8.522071
0	3.52	10.62607	29.88443	8.540537
0	3.53	10.67454	30.04064	8.429736
0	3.54	10.69069	30.19732	8.189667
0	3.55	10.67516	30.354	8.134267
0	3.56	10.72922	30.51096	8.429736
0	3.57	10.78949	30.66877	8.171201
0	3.58	10.79632	30.82706	8.134267
0	3.59	10.8218	30.9856	8.245068
0	3.6	10.84168	31.14446	8.189668
0	3.61	10.82801	31.30337	8.0604
0	3.62	10.83796	31.46226	7.450994
0	3.63	10.82739	31.62114	7.395594
0	3.64	10.87524	31.78029	7.691063
0	3.65	10.93738	31.94025	7.450994
0	3.66	10.96782	32.10089	7.487927
0	3.67	10.95477	32.26165	7.377126
0	3.68	10.95602	32.42233	7.192458
0	3.69	11.00076	32.58335	7.321726
0	3.7	10.99641	32.74466	7.06319
0	3.71	11.01753	32.9061	7.06319
0	3.72	11.10763	33.06835	7.118591
0	3.73	11.09769	33.23119	7.137058
0	3.74	11.1474	33.39432	7.321726
0	3.75	11.15548	33.55787	7.377126
0	3.76	11.12876	33.72129	7.229392
0	3.77	11.13497	33.88456	6.989323
0	3.78	11.14367	34.04793	7.173991
0	3.79	11.22445	34.21197	7.210925
0	3.8	11.26857	34.37691	6.896988
0	3.81	11.3015	34.54243	6.71232
0	3.82	11.32325	34.70834	7.100123
0	3.83	11.38849	34.8749	7.598728
0	3.84	11.41148	35.0421	7.746463
0	3.85	11.45746	35.2098	7.395593
0	3.86	11.42142	35.37758	7.487927
0	3.87	11.45374	35.54533	7.432527
0	3.88	11.45063	35.7133	7.432527
0	3.89	11.49412	35.88156	7.173991
0	3.9	11.52457	36.05036	7.081657
0	3.91	11.54632	36.21955	7.044723
0	3.92	11.59292	36.38924	7.155524
0	3.93	11.64512	36.55965	6.915455
0	3.94	11.69731	36.73083	6.693853
0	3.95	11.70912	36.90247	6.546118
0	3.96	11.71658	37.07426	6.435317
0	3.97	11.75821	37.24641	6.509185
0	3.98	11.8191	37.41931	6.453784
0	3.99	11.80916	37.59258	6.342983

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	4	11.83899	37.766	6.287583
0	4.01	11.8365	37.93962	6.287583
0	4.02	11.82656	38.11315	6.287583
0	4.03	11.84768	38.28676	6.01058
0	4.04	11.8539	38.46058	5.71511
0	4.05	11.84644	38.63438	5.511975
0	4.06	11.85701	38.8082	5.641243
0	4.07	11.89988	38.98242	5.493508
0	4.08	11.93343	39.1572	5.345774
0	4.09	11.98811	39.33262	5.364241
0	4.1	12.01297	39.50863	5.327307
0	4.11	12.04404	39.68505	5.068771
0	4.12	12.08381	39.86199	5.382708
0	4.13	12.08691	40.03924	5.345774
0	4.14	12.1012	40.21662	5.60431
0	4.15	12.15775	40.39452	5.770511
0	4.16	12.15899	40.57284	5.825912
0	4.17	12.18633	40.75137	5.899779
0	4.18	12.18944	40.93013	5.881312
0	4.19	12.22983	41.1092	6.065981
0	4.2	12.26214	41.28881	6.102914
0	4.21	12.29507	41.4689	6.084448
0	4.22	12.29694	41.64924	6.30605
0	4.23	12.27146	41.82941	6.601519
0	4.24	12.28824	42.00951	6.841588
0	4.25	12.30688	42.18987	6.638453
0	4.26	12.32117	42.37048	7.06319
0	4.27	12.34043	42.55133	6.970856
0	4.28	12.3336	42.73227	7.210925
0	4.29	12.38331	42.91353	7.210925
0	4.3	12.43799	43.09555	7.044724
0	4.31	12.45849	43.27813	7.118591
0	4.32	12.52249	43.46132	7.026257
0	4.33	12.56848	43.64532	6.675387
0	4.34	12.55232	43.82954	6.823122
0	4.35	12.60141	44.014	6.453785
0	4.36	12.58463	44.1987	6.712321
0	4.37	12.60638	44.38343	6.749254
0	4.38	12.62626	44.56847	6.619986
0	4.39	12.64739	44.75381	6.712321
0	4.4	12.67597	44.93952	6.60152
0	4.41	12.72817	45.12582	6.749254
0	4.42	12.75737	45.31271	6.527652
0	4.43	12.80895	45.5002	6.435318
0	4.44	12.79838	45.68798	6.065981
0	4.45	12.78844	45.87562	5.936713
0	4.46	12.84374	46.06359	6.36145
0	4.47	12.85182	46.25202	6.084448
0	4.48	12.84126	46.44044	5.95518
0	4.49	12.84499	46.6288	5.881312

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	4.5	12.886	46.8175	6.01058
0	4.51	12.89407	47.00655	5.95518
0	4.52	12.95807	47.19613	5.862845
0	4.53	13.0053	47.38653	6.232182
0	4.54	13.01648	47.57736	6.619986
0	4.55	13.03078	47.76837	6.269116
0	4.56	13.04445	47.95959	6.472251
0	4.57	13.07365	48.15112	6.379917
0	4.58	13.10534	48.3431	6.342983
0	4.59	13.07676	48.5351	6.287583
0	4.6	13.10285	48.72709	6.435317
0	4.61	13.12647	48.91944	6.398384
0	4.62	13.15256	49.11215	6.30605
0	4.63	13.20787	49.30546	6.287583
0	4.64	13.23645	49.49938	6.619986
0	4.65	13.26379	49.69372	6.786188
0	4.66	13.28554	49.88842	7.06319
0	4.67	13.26441	50.08311	7.00779
0	4.68	13.26627	50.27767	7.137058
0	4.69	13.31598	50.47261	7.06319
0	4.7	13.37315	50.66833	7.229392
0	4.71	13.39676	50.86464	7.210925
0	4.72	13.40795	51.06121	7.340193
0	4.73	13.421	51.25796	7.580262
0	4.74	13.40546	51.45468	7.46946
0	4.75	13.43032	51.65148	7.450994
0	4.76	13.51172	51.84905	7.709529
0	4.77	13.54092	52.04744	7.746463
0	4.78	13.56453	52.24621	7.580261
0	4.79	13.56391	52.44516	7.524861
0	4.8	13.5695	52.64413	7.76493
0	4.81	13.55583	52.84305	7.46946
0	4.82	13.6422	53.04251	7.709529
0	4.83	13.6596	53.24272	7.691062
0	4.84	13.66085	53.44307	7.82033
0	4.85	13.66954	53.64349	7.598728
0	4.86	13.68446	53.84409	7.432526
0	4.87	13.71056	54.04498	7.06319
0	4.88	13.76959	54.24651	6.76772
0	4.89	13.79133	54.44862	6.71232
0	4.9	13.80128	54.65096	6.786187
0	4.91	13.83234	54.85361	6.472251
0	4.92	13.78512	55.05614	6.435318
0	4.93	13.81743	55.25856	6.472251
0	4.94	13.86093	55.46153	6.509185
0	4.95	13.86901	55.66489	6.472251
0	4.96	13.9038	55.86855	6.453784
0	4.97	13.92244	56.07261	6.287583
0	4.98	13.85968	56.27635	6.176782
0	4.99	13.86279	56.47965	6.36145

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	5	13.94171	56.68354	6.435318
0	5.01	13.93487	56.88797	6.269116
0	5.02	13.95538	57.0925	6.472251
0	5.03	13.99825	57.29749	6.213716
0	5.04	14.03056	57.50304	6.36145
0	5.05	14.0461	57.70893	6.250649
0	5.06	14.11631	57.91546	6.065981
0	5.07	14.12874	58.12259	6.139848
0	5.08	14.16726	58.33009	6.416851
0	5.09	14.19895	58.53811	6.619986
0	5.1	14.21511	58.74648	6.324516
0	5.11	14.23437	58.95511	6.30605
0	5.12	14.25985	59.16407	6.583052
0	5.13	14.212	59.37286	6.730787
0	5.14	14.25923	59.58165	6.583052
0	5.15	14.26979	59.79086	6.65692
0	5.16	14.25985	60.00008	6.527652
0	5.17	14.30272	60.20954	6.232183
0	5.18	14.32074	60.41945	5.918246
0	5.19	14.36424	60.6298	5.881313
0	5.2	14.33814	60.84029	5.696644
0	5.21	14.33503	61.05056	5.807445
0	5.22	14.33752	61.26082	5.881313
0	5.23	14.34	61.47112	5.807445
0	5.24	14.36424	61.68162	5.899779
0	5.25	14.40028	61.89256	6.029047
0	5.26	14.40152	62.10377	6.287583
0	5.27	14.42575	62.31517	6.435318
0	5.28	14.45806	62.52699	6.324517
0	5.29	14.49845	62.73934	5.992114
0	5.3	14.53636	62.95226	5.899779
0	5.31	14.56432	63.16566	6.195249
0	5.32	14.59042	63.37947	6.084448
0	5.33	14.59166	63.59347	6.029047
0	5.34	14.62584	63.80773	5.788978
0	5.35	14.67679	64.02262	5.881312
0	5.36	14.70537	64.23808	5.548909
0	5.37	14.75632	64.45414	5.585843
0	5.38	14.78739	64.67079	5.715111
0	5.39	14.79361	64.88772	6.065981
0	5.4	14.76689	65.10449	6.176782
0	5.41	14.7296	65.3208	6.232182
0	5.42	14.76627	65.53711	5.973646
0	5.43	14.71345	65.75329	6.047514
0	5.44	14.71656	65.96911	5.844378
0	5.45	14.73271	66.18507	5.733577
0	5.46	14.74887	66.40127	5.973647
0	5.47	14.76937	66.61774	6.195248
0	5.48	14.84269	66.83489	6.102914
0	5.49	14.83275	67.05251	6.472251

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	5.5	14.87314	67.27035	6.693853
0	5.51	14.87873	67.48854	6.472251
0	5.52	14.89551	67.70688	6.472251
0	5.53	14.92471	67.92556	6.509185
0	5.54	14.94087	68.14458	6.638453
0	5.55	14.98064	68.364	6.730787
0	5.56	15.01978	68.584	6.730787
0	5.57	15.05769	68.80457	6.933922
0	5.58	15.06017	69.02544	6.952389
0	5.59	15.10118	69.24662	7.100124
0	5.6	15.0987	69.46808	7.155524
0	5.61	15.11796	69.68967	7.137057
0	5.62	15.13225	69.91151	7.266325
0	5.63	15.10181	70.13322	7.506394
0	5.64	15.09062	70.35464	7.635662
0	5.65	15.09435	70.57599	7.654129
0	5.66	15.08689	70.79732	7.894198
0	5.67	15.05769	71.01838	7.561795
0	5.68	15.10056	71.23954	7.210925
0	5.69	15.15959	71.46145	7.303259
0	5.7	15.12542	71.68354	7.100124
0	5.71	15.16953	71.9057	6.915455
0	5.72	15.17699	72.12824	7.35866
0	5.73	15.22235	72.35117	7.432527
0	5.74	15.30313	72.57503	7.82033
0	5.75	15.30002	72.79945	7.635662
0	5.76	15.35222	73.02423	7.709529
0	5.77	15.37397	73.24956	7.617195
0	5.78	15.41995	73.47538	7.875731
0	5.79	15.4187	73.70153	7.986532
0	5.8	15.43051	73.92776	7.912665
0	5.81	15.4448	74.15418	7.986532
0	5.82	15.44232	74.38068	8.152734
0	5.83	15.45723	74.60728	7.949598
0	5.84	15.48084	74.83416	8.060399
0	5.85	15.47711	75.06118	8.041932
0	5.86	15.50508	75.28839	8.152733
0	5.87	15.51315	75.51585	7.986532
0	5.88	15.54484	75.74361	7.691062
0	5.89	15.56846	75.97178	7.875731
0	5.9	15.55789	76.20004	7.857264
0	5.91	15.49389	76.42775	7.931131
0	5.92	15.53304	76.65528	7.931131
0	5.93	15.54609	76.88319	7.912665
0	5.94	15.53179	77.1111	7.82033
0	5.95	15.5958	77.33937	8.023466
0	5.96	15.61754	77.56826	8.041932
0	5.97	15.63805	77.79747	8.1158
0	5.98	15.64861	78.02691	8.189667
0	5.99	15.68403	78.25668	7.746463

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	6	15.74182	78.48714	7.857264
0	6.01	15.78842	78.71836	7.635662
0	6.02	15.8052	78.95004	7.432527
0	6.03	15.8139	79.18192	7.210925
0	6.04	15.81949	79.4139	7.026256
0	6.05	15.82322	79.64594	6.65692
0	6.06	15.80706	79.8779	6.749254
0	6.07	15.77848	80.10953	7.118591
0	6.08	15.78221	80.34097	7.247859
0	6.09	15.80209	80.57259	7.543328
0	6.1	15.84372	80.80466	7.284792
0	6.11	15.83067	81.03694	7.266326
0	6.12	15.8953	81.26959	7.35866
0	6.13	15.91332	81.50286	7.303259
0	6.14	15.93258	81.73639	7.081657
0	6.15	15.93817	81.97011	7.06319
0	6.16	15.88163	82.20346	6.749254
0	6.17	15.92077	82.43668	6.65692
0	6.18	15.93196	82.67026	6.527652
0	6.19	15.9332	82.90394	6.619986
0	6.2	15.91332	83.13748	6.71232
0	6.21	15.94749	83.37113	6.472251
0	6.22	15.95557	83.60508	6.65692
0	6.23	15.97359	83.83923	6.896989
0	6.24	15.99409	84.07366	6.989323
0	6.25	16.01895	84.30842	7.210925
0	6.26	16.04318	84.54354	7.469461
0	6.27	16.06804	84.77903	7.118591
0	6.28	16.11153	85.01501	6.896988
0	6.29	16.1687	85.25173	6.693853
0	6.3	16.18486	85.48899	6.71232
0	6.31	16.24078	85.72678	6.933922
0	6.32	16.30229	85.96543	6.749254
0	6.33	16.26253	86.20424	6.342983
0	6.34	16.28862	86.44295	6.65692
0	6.35	16.32591	86.68212	6.546119
0	6.36	16.27433	86.92119	6.30605
0	6.37	16.28179	87.15993	6.324517
0	6.38	16.29297	87.39881	6.342984
0	6.39	16.2849	87.63772	6.342984
0	6.4	16.24824	87.87629	6.287583
0	6.41	16.24948	88.11461	6.601519
0	6.42	16.27185	88.3531	6.65692
0	6.43	16.29732	88.59194	6.767721
0	6.44	16.27309	88.83079	6.675386
0	6.45	16.30727	89.06971	6.601519
0	6.46	16.3663	89.30932	6.601519
0	6.47	16.39488	89.54957	6.490718
0	6.48	16.39301	89.79001	6.675386
0	6.49	16.38867	90.03041	6.583052

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	6.5	16.37313	90.27066	6.675386
0	6.51	16.39115	90.51094	6.619986
0	6.52	16.45702	90.75182	6.786188
0	6.53	16.48995	90.99343	6.767721
0	6.54	16.53717	91.23563	7.118591
0	6.55	16.49803	91.47789	6.915455
0	6.56	16.53593	91.72014	6.675386
0	6.57	16.52475	91.96258	7.247859
0	6.58	16.54525	92.2051	7.155524
0	6.59	16.60242	92.44818	7.284792
0	6.6	16.58502	92.69156	7.524861
0	6.61	16.61298	92.93501	7.82033
0	6.62	16.59123	93.17851	7.635662
0	6.63	16.62416	93.42208	7.561795
0	6.64	16.62541	93.66591	7.229391
0	6.65	16.63473	93.90982	7.358659
0	6.66	16.6484	94.1539	7.229391
0	6.67	16.66952	94.39823	7.100123
0	6.68	16.68754	94.64285	7.266325
0	6.69	16.68444	94.88758	7.081657
0	6.7	16.64902	95.13202	7.395593
0	6.71	16.72918	95.3768	7.487927
0	6.72	16.77081	95.62246	7.617195
0	6.73	16.76459	95.86839	7.580261
0	6.74	16.81617	96.11465	7.857264
0	6.75	16.76087	96.36088	7.894197
0	6.76	16.74285	96.60657	7.82033
0	6.77	16.78696	96.85246	8.52207
0	6.78	16.82611	97.09895	8.208133
0	6.79	16.83481	97.3458	8.023465
0	6.8	16.85345	97.59285	7.87573
0	6.81	16.88079	97.84023	7.543327
0	6.82	16.89695	98.08794	7.598728
0	6.83	16.93299	98.33602	7.949598
0	6.84	16.97648	98.58469	8.060399
0	6.85	16.97959	98.8337	8.152733
0	6.86	16.99326	99.08284	7.894197
0	6.87	16.91932	99.33153	8.134266
0	6.88	16.83295	99.57905	8.337401
0	6.89	16.85097	99.82606	8.448202
0	6.9	16.88638	100.0735	8.52207
0	6.91	16.95038	100.3216	8.208133
0	6.92	16.96778	100.5703	7.949598
0	6.93	16.97338	100.8192	7.598728
0	6.94	16.95101	101.068	7.303258
0	6.95	16.99699	101.317	7.081656
0	6.96	17.02681	101.5665	6.860054
0	6.97	17.08895	101.8167	6.82312
0	6.98	17.13307	102.0676	6.712319
0	6.99	17.1225	102.3188	6.453784

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	7	17.11443	102.5699	6.878521
0	7.01	17.16724	102.8213	6.804654
0	7.02	17.20763	103.0734	7.081656
0	7.03	17.18837	103.3256	6.841587
0	7.04	17.23932	103.5781	6.195248
0	7.05	17.23373	103.8309	6.41685
0	7.06	17.19334	104.0834	6.398383
0	7.07	17.15606	104.3353	6.324516
0	7.08	17.12064	104.5866	6.730786
0	7.09	17.1399	104.8379	6.675386
0	7.1	17.16662	105.0894	6.250649
0	7.11	17.16476	105.3412	6.472251
0	7.12	17.12934	105.5927	6.176781
0	7.13	17.10697	105.8438	6.71232
0	7.14	17.13928	106.0949	6.896988
0	7.15	17.18526	106.3466	6.915455
0	7.16	17.24989	106.5991	6.989322
0	7.17	17.26728	106.8523	7.081657
0	7.18	17.26045	107.1055	7.026256
0	7.19	17.33936	107.3592	6.638452
0	7.2	17.35738	107.6136	6.860054
0	7.21	17.36919	107.8683	6.804654
0	7.22	17.37789	108.1231	6.860054
0	7.23	17.39529	108.3781	6.546118
0	7.24	17.36919	108.6331	6.656919
0	7.25	17.35428	108.8877	6.841588
0	7.26	17.37416	109.1424	6.583052
0	7.27	17.35987	109.3971	6.693853
0	7.28	17.42449	109.6522	6.989322
0	7.29	17.44003	109.9078	6.638453
0	7.3	17.37105	110.1631	6.730787
0	7.31	17.4394	110.4184	6.749254
0	7.32	17.44872	110.6742	6.490718
0	7.33	17.45742	110.9302	6.675386
0	7.34	17.45183	111.1862	6.269116
0	7.35	17.48166	111.4424	6.306049
0	7.36	17.48849	111.6989	6.379917
0	7.37	17.47793	111.9553	6.36145
0	7.38	17.50962	112.2119	6.232182
0	7.39	17.54566	112.4689	6.36145
0	7.4	17.56865	112.7264	6.453784
0	7.41	17.57238	112.9841	6.379917
0	7.42	17.51894	113.2415	6.102914
0	7.43	17.57113	113.4988	5.95518
0	7.44	17.70473	113.7575	6.472251
0	7.45	17.76562	114.0176	6.195249
0	7.46	17.78302	114.2783	6.084447
0	7.47	17.76314	114.539	6.047514
0	7.48	17.72151	114.7992	6.065981
0	7.49	17.75444	115.0593	6.158315

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	7.5	17.77619	115.3199	6.232182
0	7.51	17.75382	115.5804	6.527651
0	7.52	17.76562	115.8409	6.490718
0	7.53	17.76997	116.1015	6.952389
0	7.54	17.76127	116.3621	6.933922
0	7.55	17.77743	116.6227	6.878521
0	7.56	17.78737	116.8835	6.71232
0	7.57	17.7563	117.1442	6.786187
0	7.58	17.79048	117.4048	6.804654
0	7.59	17.7737	117.6656	7.155524
0	7.6	17.80104	117.9265	7.450994
0	7.61	17.83335	118.1878	7.303259
0	7.62	17.81968	118.4493	7.377126
0	7.63	17.84764	118.7109	7.801863
0	7.64	17.87126	118.9728	7.709529
0	7.65	17.88803	119.235	7.358659
0	7.66	17.90668	119.4975	7.450994
0	7.67	17.93961	119.7604	7.672596
0	7.68	17.95079	120.0236	7.783397
0	7.69	17.9104	120.2866	7.875731
0	7.7	17.89363	120.5491	7.912665
0	7.71	17.93339	120.8119	7.894198
0	7.72	17.9452	121.075	7.303259
0	7.73	17.91848	121.338	7.487928
0	7.74	17.87126	121.6004	7.118591
0	7.75	17.90605	121.8628	7.100124
0	7.76	17.92283	122.1256	7.081657
0	7.77	17.90792	122.3883	7.06319
0	7.78	17.91227	122.651	7.155525
0	7.79	17.97005	122.9141	7.044724
0	7.8	17.98062	123.1778	6.675387
0	7.81	18.01044	123.4417	6.453784
0	7.82	18.01728	123.7059	6.767721
0	7.83	18.02846	123.9702	6.675386
0	7.84	18.01479	124.2346	6.324517
0	7.85	18.11048	124.4995	6.860055
0	7.86	18.12478	124.7652	7.100124
0	7.87	18.18505	125.0315	7.321726
0	7.88	18.18256	125.2982	7.192458
0	7.89	18.13223	125.5645	7.026257
0	7.9	18.14466	125.8305	6.823121
0	7.91	18.17697	126.0969	6.36145
0	7.92	18.15212	126.3633	6.102914
0	7.93	18.17946	126.6297	6.490718
0	7.94	18.19748	126.8965	6.490718
0	7.95	18.16144	127.1631	6.342983
0	7.96	18.19064	127.4297	6.730787
0	7.97	18.22668	127.6968	6.601519
0	7.98	18.27701	127.9644	6.786187
0	7.99	18.21425	128.232	6.76772

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	8	18.22357	128.4993	6.933922
0	8.01	18.2447	128.7667	6.878521
0	8.02	18.19499	129.0339	6.860054
0	8.03	18.18878	129.3007	6.71232
0	8.04	18.20431	129.5676	6.730787
0	8.05	18.23227	129.8348	6.749253
0	8.06	18.21736	130.1021	6.472251
0	8.07	18.25091	130.3695	6.287583
0	8.08	18.28509	130.6375	6.158315
0	8.09	18.28571	130.9057	6.176781
0	8.1	18.33356	131.1742	6.06598
0	8.11	18.42179	131.4437	6.250649
0	8.12	18.44105	131.7141	6.619985
0	8.13	18.39569	131.9842	6.656919
0	8.14	18.40004	132.254	6.41685
0	8.15	18.41123	132.524	6.656919
0	8.16	18.4423	132.7943	6.564585
0	8.17	18.48704	133.0651	6.158315
0	8.18	18.48579	133.3362	6.693853
0	8.19	18.44789	133.607	6.952388
0	8.2	18.41806	133.8774	6.933921
0	8.21	18.42055	134.1475	6.786187
0	8.22	18.40315	134.4176	6.749253
0	8.23	18.36835	134.6872	6.675386
0	8.24	18.40377	134.9569	6.583052
0	8.25	18.36525	135.2265	6.693853
0	8.26	18.39694	135.4961	6.638452
0	8.27	18.39321	135.7659	6.453784
0	8.28	18.39445	136.0357	6.306049
0	8.29	18.40315	136.3056	6.029046
0	8.3	18.44913	136.5758	5.955179
0	8.31	18.47585	136.8466	6.047513
0	8.32	18.51438	137.1179	5.881312
0	8.33	18.55042	137.3897	5.71511
0	8.34	18.60137	137.6621	5.641243
0	8.35	18.67531	137.9355	5.678177
0	8.36	18.69706	138.2095	5.844378
0	8.37	18.67842	138.4836	6.047513
0	8.38	18.65356	138.7574	6.269115
0	8.39	18.70638	139.0314	6.121381
0	8.4	18.71881	139.3058	5.678177
0	8.41	18.7679	139.5807	5.401174
0	8.42	18.74863	139.8558	5.696644
0	8.43	18.74988	140.1308	6.176781
0	8.44	18.75298	140.4058	6.583052
0	8.45	18.76852	140.681	6.619985
0	8.46	18.72688	140.956	6.675386
0	8.47	18.7884	141.2311	6.693853
0	8.48	18.83562	141.507	6.823121
0	8.49	18.82755	141.7832	7.229391

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	8.5	18.82568	142.0593	7.52486
0	8.51	18.77535	142.3351	7.87573
0	8.52	18.77722	142.6104	8.115799
0	8.53	18.77597	142.8858	8.060399
0	8.54	18.83687	143.1617	8.115799
0	8.55	18.87166	143.4382	8.208133
0	8.56	18.88782	143.7151	8.152733
0	8.57	18.90833	143.9923	7.450993
0	8.58	18.93442	144.2698	7.377126
0	8.59	18.96363	144.5477	7.155524
0	8.6	18.98475	144.826	7.192457
0	8.61	18.99221	145.1045	7.598728
0	8.62	18.99532	145.3831	7.82033
0	8.63	19.0065	145.6617	7.894198
0	8.64	19.03011	145.9407	7.598728
0	8.65	19.07237	146.2201	7.266325
0	8.66	19.05435	146.4997	7.580262
0	8.67	19.02887	146.779	7.395593
0	8.68	19.02514	147.058	7.395593
0	8.69	19.0239	147.337	7.524861
0	8.7	19.03136	147.6161	7.137058
0	8.71	19.03011	147.8952	6.989323
0	8.72	19.04503	148.1745	6.767721
0	8.73	19.02328	148.4536	6.509185
0	8.74	19.00961	148.7325	6.71232
0	8.75	19.00091	149.0113	6.601519
0	8.76	18.97978	149.2898	6.749254
0	8.77	19.03633	149.5686	6.675387
0	8.78	19.01272	149.8476	6.896989
0	8.79	19.11276	150.1272	7.247859
0	8.8	19.11276	150.4075	7.321726
0	8.81	19.14693	150.6881	7.100124
0	8.82	19.15874	150.969	7.044723
0	8.83	19.15377	151.25	6.915456
0	8.84	19.15066	151.5309	6.601519
0	8.85	19.16868	151.8119	6.638453
0	8.86	19.18981	152.0932	6.638453
0	8.87	19.178	152.3745	6.342983
0	8.88	19.21653	152.6561	6.287583
0	8.89	19.25257	152.9382	6.638453
0	8.9	19.25194	153.2206	6.472251
0	8.91	19.25132	153.5029	6.435318
0	8.92	19.24511	153.7852	6.786187
0	8.93	19.2246	154.0673	6.71232
0	8.94	19.18856	154.349	7.173991
0	8.95	19.20472	154.6306	6.860055
0	8.96	19.22025	154.9124	6.952389
0	8.97	19.23082	155.1943	6.933922
0	8.98	19.23827	155.4764	6.989322
0	8.99	19.22088	155.7585	7.044723

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	9	19.24076	156.0405	7.044723
0	9.01	19.24138	156.3227	7.432526
0	9.02	19.26624	156.6051	7.672596
0	9.03	19.28053	156.8878	7.395593
0	9.04	19.23082	157.1702	7.912664
0	9.05	19.21715	157.4522	7.912664
0	9.06	19.23641	157.7342	7.801863
0	9.07	19.26624	158.0165	7.82033
0	9.08	19.28425	158.2992	7.857264
0	9.09	19.27183	158.582	7.968065
0	9.1	19.29793	158.8648	7.617195
0	9.11	19.36068	159.1483	7.801863
0	9.12	19.35012	159.4322	8.152733
0	9.13	19.39734	159.7163	7.76493
0	9.14	19.41847	160.001	7.709529
0	9.15	19.46694	160.2861	7.247858
0	9.16	19.49241	160.5718	7.377126
0	9.17	19.53094	160.858	7.284792
0	9.18	19.56636	161.1447	7.100123
0	9.19	19.59556	161.4319	7.137057
0	9.2	19.63844	161.7196	6.952389
0	9.21	19.71238	162.0082	6.878521
0	9.22	19.65894	162.2969	6.583052
0	9.23	19.7304	162.5858	6.287583
0	9.24	19.76023	162.8754	6.453784
0	9.25	19.72916	163.165	5.807445
0	9.26	19.71176	163.4542	6.065981
0	9.27	19.69187	163.7432	6.121381
0	9.28	19.6664	164.0318	6.213715
0	9.29	19.70368	164.3205	6.269116
0	9.3	19.70741	164.6095	6.158315
0	9.31	19.67385	164.8983	6.047514
0	9.32	19.64962	165.1867	5.936713
0	9.33	19.63347	165.4748	5.696644
0	9.34	19.60923	165.7625	5.788978
0	9.35	19.66702	166.0506	5.696644
0	9.36	19.67572	166.3391	5.752044
0	9.37	19.67883	166.6277	5.973647
0	9.38	19.69747	166.9164	5.899779
0	9.39	19.70057	167.2054	5.992113
0	9.4	19.73226	167.4945	6.047514
0	9.41	19.73537	167.784	6.047514
0	9.42	19.72854	168.0734	5.788978
0	9.43	19.76955	168.363	5.881312
0	9.44	19.74407	168.6528	5.881312
0	9.45	19.6925	168.942	5.973646
0	9.46	19.69871	169.2308	6.213715
0	9.47	19.7043	169.5198	5.992113
0	9.48	19.71611	169.8089	5.918246
0	9.49	19.73288	170.0982	5.807445

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	9.5	19.75836	170.3878	5.752044
0	9.51	19.73288	170.6774	5.807445
0	9.52	19.76644	170.967	5.955179
0	9.53	19.76768	171.257	6.121381
0	9.54	19.83852	171.5474	6.195248
0	9.55	19.86151	171.8385	6.269116
0	9.56	19.93235	172.1304	6.306049
0	9.57	19.96963	172.423	6.41685
0	9.58	19.9224	172.7155	6.250649
0	9.59	19.90376	173.0076	6.435317
0	9.6	19.92054	173.2996	6.195248
0	9.61	19.98205	173.5922	5.881312
0	9.62	20.07837	173.886	6.029047
0	9.63	20.06221	174.1804	5.918246
0	9.64	20.05103	174.4745	5.825912
0	9.65	20.09328	174.7689	5.918246
0	9.66	20.0852	175.0636	5.475042
0	9.67	20.09825	175.3583	5.548909
0	9.68	20.11006	175.6531	5.401175
0	9.69	20.10198	175.948	5.622777
0	9.7	20.12186	176.243	5.364241
0	9.71	20.09701	176.5379	5.327307
0	9.72	20.04419	176.8323	5.198039
0	9.73	20.00567	177.126	4.994904
0	9.74	20.01312	177.4195	4.736368
0	9.75	20.02617	177.7131	4.791769
0	9.76	19.99945	178.0066	4.699435
0	9.77	20.04854	178.3003	4.95797
0	9.78	20.12	178.5949	5.031838
0	9.79	20.11006	178.8899	4.90257
0	9.8	20.13802	179.185	4.810236
0	9.81	20.11254	179.4802	5.013371
0	9.82	20.11565	179.7752	5.179572
0	9.83	20.12808	180.0703	5.161106
0	9.84	20.11006	180.3654	5.567376
0	9.85	20.12373	180.6605	5.271907
0	9.86	20.17592	180.956	5.271907
0	9.87	20.21134	181.2522	5.622777
0	9.88	20.27348	181.549	5.438108
0	9.89	20.25235	181.8462	5.567376
0	9.9	20.31387	182.1437	5.456575
0	9.91	20.29958	182.4416	5.807445
0	9.92	20.3033	182.7393	5.899779
0	9.93	20.35923	183.0375	6.269116
0	9.94	20.35239	183.3361	6.453785
0	9.95	20.35861	183.6346	6.878522
0	9.96	20.35798	183.9332	6.823121
0	9.97	20.36855	184.2319	6.860055
0	9.98	20.39775	184.5308	6.583052
0	9.99	20.43379	184.8302	6.158315

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	10	20.44249	185.13	6.195249
0	10.01	20.44373	185.4298	6.029047
0	10.02	20.42074	185.7295	6.029047
0	10.03	20.46051	186.0293	6.435318
0	10.04	20.44311	186.3293	6.139848
0	10.05	20.40459	186.6288	6.416851
0	10.06	20.42136	186.9282	6.749254
0	10.07	20.40086	187.2276	7.00779
0	10.08	20.41826	187.5269	6.896989
0	10.09	20.4195	187.8264	6.933922
0	10.1	20.44933	188.1261	6.878522
0	10.11	20.47667	188.4262	6.841588
0	10.12	20.47232	188.7265	6.65692
0	10.13	20.46051	189.0267	6.896989
0	10.14	20.52327	189.3272	6.638453
0	10.15	20.55372	189.6284	6.730787
0	10.16	20.59473	189.9302	6.435318
0	10.17	20.64195	190.2326	6.416851
0	10.18	20.62642	190.5352	6.398384
0	10.19	20.60405	190.8376	6.952389
0	10.2	20.55247	191.1394	7.340193
0	10.21	20.60653	191.4412	7.580261
0	10.22	20.65562	191.7438	7.727996
0	10.23	20.66743	192.0469	7.709529
0	10.24	20.66246	192.35	7.450993
0	10.25	20.65562	192.653	7.82033
0	10.26	20.64195	192.9558	7.137057
0	10.27	20.63884	193.2585	7.100124
0	10.28	20.62207	193.5611	6.786187
0	10.29	20.57298	193.8632	6.675386
0	10.3	20.55869	194.1648	6.675386
0	10.31	20.56739	194.4664	6.675386
0	10.32	20.55744	194.768	6.896988
0	10.33	20.60591	195.0699	7.044723
0	10.34	20.64133	195.3724	6.693853
0	10.35	20.66929	195.6753	6.76772
0	10.36	20.64754	195.9783	6.564585
0	10.37	20.61585	196.2809	6.619986
0	10.38	20.65997	196.5836	6.453784
0	10.39	20.68607	196.8868	6.509185
0	10.4	20.69539	197.1902	6.30605
0	10.41	20.73516	197.4941	6.250649
0	10.42	20.74572	197.7983	6.213715
0	10.43	20.78735	198.1028	6.342983
0	10.44	20.82961	198.408	6.416851
0	10.45	20.84887	198.7137	6.287583
0	10.46	20.86751	199.0196	6.398384
0	10.47	20.92654	199.3261	6.619986
0	10.48	20.94021	199.6331	6.509185
0	10.49	20.99613	199.9406	6.860055

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	10.5	20.99613	200.2486	6.786187
0	10.51	20.95202	200.5562	6.896988
0	10.52	20.98184	200.8637	6.841588
0	10.53	21.01974	201.1717	6.638453
0	10.54	21.02099	201.48	6.583052
0	10.55	21.05765	201.7886	6.730787
0	10.56	21.02534	202.0972	6.76772
0	10.57	20.97563	202.4052	6.841588
0	10.58	21.00918	202.7131	6.76772
0	10.59	20.99862	203.0212	6.952389
0	10.6	21.02037	203.3293	6.989322
0	10.61	21.06138	203.6379	6.804654
0	10.62	21.05392	203.9468	6.804654
0	10.63	21.11233	204.256	6.656919
0	10.64	21.10363	204.5656	6.435317
0	10.65	21.0999	204.875	6.527652
0	10.66	21.1086	205.1846	6.453784
0	10.67	21.13097	205.4943	6.527651
0	10.68	21.11233	205.8041	6.453784
0	10.69	21.16887	206.1142	6.952389
0	10.7	21.20864	206.4249	6.71232
0	10.71	21.20181	206.736	6.76772
0	10.72	21.21299	207.047	6.860055
0	10.73	21.21299	207.3581	6.767721
0	10.74	21.21423	207.6693	7.026256
0	10.75	21.16142	207.98	7.210925
0	10.76	21.12848	208.2901	7.00779
0	10.77	21.12662	208.6	6.896989
0	10.78	21.13283	208.9099	6.915455
0	10.79	21.11481	209.2197	6.860055
0	10.8	21.11295	209.5294	6.564586
0	10.81	21.11171	209.839	6.527652
0	10.82	21.11109	210.1487	6.379917
0	10.83	21.12973	210.4584	6.232183
0	10.84	21.13718	210.7684	6.176782
0	10.85	21.12848	211.0783	6.084448
0	10.86	21.20119	211.3888	6.029047
0	10.87	21.23163	211.6999	6.453785
0	10.88	21.23225	212.0113	6.213716
0	10.89	21.26829	212.323	6.638453
0	10.9	21.33478	212.6354	6.250649
0	10.91	21.33664	212.9484	6.416851
0	10.92	21.36212	213.2615	6.509185
0	10.93	21.35404	213.5747	6.416851
0	10.94	21.39567	213.8882	6.509185
0	10.95	21.40562	214.2021	6.601519
0	10.96	21.39195	214.516	6.084448
0	10.97	21.40065	214.8298	6.139848
0	10.98	21.42115	215.1438	6.195249
0	10.99	21.43296	215.4581	6.213715

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	11	21.39257	215.7721	6.527652
0	11.01	21.41866	216.0861	6.619986
0	11.02	21.4255	216.4003	6.583052
0	11.03	21.37703	216.7141	6.693853
0	11.04	21.38884	217.0278	6.878522
0	11.05	21.42736	217.3417	7.155524
0	11.06	21.40934	217.6559	7.395593
0	11.07	21.42239	217.97	7.340193
0	11.08	21.4634	218.2845	7.229392
0	11.09	21.44103	218.5991	7.303259
0	11.1	21.45657	218.9137	7.007789
0	11.11	21.50814	219.2288	6.952389
0	11.12	21.49758	219.5441	6.878521
0	11.13	21.53113	219.8597	6.970856
0	11.14	21.57898	220.1758	6.989323
0	11.15	21.55226	220.4921	6.970856
0	11.16	21.56096	220.8083	6.693853
0	11.17	21.64857	221.1252	7.026256
0	11.18	21.64174	221.4426	7.026256
0	11.19	21.64236	221.76	7.358659
0	11.2	21.6871	222.0778	7.377126
0	11.21	21.68648	222.3959	7.06319
0	11.22	21.72314	222.7142	7.192458
0	11.23	21.72687	223.0328	7.192458
0	11.24	21.69704	223.3513	7.210924
0	11.25	21.65479	223.6692	7.173991
0	11.26	21.63242	223.9866	7.044723
0	11.27	21.61937	224.3038	7.155524
0	11.28	21.60818	224.6208	7.100123
0	11.29	21.65416	224.9381	6.878521
0	11.3	21.65541	225.2557	6.675386
0	11.31	21.66721	225.5734	6.638452
0	11.32	21.65479	225.8911	6.76772
0	11.33	21.64422	226.2086	6.878522
0	11.34	21.61129	226.5258	6.675386
0	11.35	21.68275	226.8433	6.638453
0	11.36	21.73059	227.1616	6.76772
0	11.37	21.75793	227.4806	6.71232
0	11.38	21.8238	227.8002	6.786187
0	11.39	21.84555	228.1204	6.989323
0	11.4	21.84244	228.4408	6.619986
0	11.41	21.85425	228.7612	6.546118
0	11.42	21.86667	229.0818	6.527652
0	11.43	21.86046	229.4025	6.453784
0	11.44	21.86481	229.7232	6.490718
0	11.45	21.90023	230.0441	6.638453
0	11.46	21.94124	230.3656	6.398384
0	11.47	21.95367	230.6875	6.472251
0	11.48	21.95491	231.0095	6.564585
0	11.49	21.87289	231.3309	6.36145

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	11.5	21.86232	231.6516	6.398384
0	11.51	21.89029	231.9725	6.564585
0	11.52	21.8878	232.2935	6.675387
0	11.53	21.88656	232.6145	6.693853
0	11.54	21.91079	232.9357	6.416851
0	11.55	21.90955	233.2571	6.379917
0	11.56	21.86729	233.5781	6.379917
0	11.57	21.87164	233.8988	6.250649
0	11.58	21.90768	234.2199	6.416851
0	11.59	21.89091	234.5411	6.416851
0	11.6	21.93813	234.8625	6.379917
0	11.61	22.0419	235.185	6.656919
0	11.62	22.0419	235.5083	6.490718
0	11.63	22.03817	235.8315	6.41685
0	11.64	22.11087	236.1553	6.601519
0	11.65	22.05992	236.4792	6.306049
0	11.66	22.08975	236.803	6.269116
0	11.67	22.16866	237.1276	6.490718
0	11.68	22.15188	237.4526	6.638452
0	11.69	22.08602	237.777	6.398383
0	11.7	22.06986	238.1008	6.619985
0	11.71	22.06676	238.4245	6.76772
0	11.72	22.05619	238.748	6.804654
0	11.73	22.10466	239.0719	6.619986
0	11.74	22.10031	239.396	6.453784
0	11.75	22.10963	239.7202	6.41685
0	11.76	22.10652	240.0445	6.527651
0	11.77	22.12019	240.3688	6.453784
0	11.78	22.12206	240.6933	6.472251
0	11.79	22.15748	241.018	6.546118
0	11.8	22.15126	241.3429	6.379917
0	11.81	22.14878	241.6678	6.250649
0	11.82	22.1407	241.9926	6.047514
0	11.83	22.12703	242.3172	6.232182
0	11.84	22.18668	242.6422	6.324516
0	11.85	22.1699	242.9675	6.269116
0	11.86	22.19911	243.2928	6.41685
0	11.87	22.21651	243.6185	6.269116
0	11.88	22.20594	243.9443	6.158315
0	11.89	22.23453	244.2702	6.102914
0	11.9	22.24944	244.5964	6.047514
0	11.91	22.29666	244.9231	6.490718
0	11.92	22.30101	245.2501	6.41685
0	11.93	22.32027	245.5774	6.232182
0	11.94	22.31965	245.9047	6.490718
0	11.95	22.27989	246.2318	6.767721
0	11.96	22.30971	246.5588	6.823121
0	11.97	22.3936	246.8866	7.081657
0	11.98	22.40478	247.2151	7.247858
0	11.99	22.38987	247.5436	7.358659

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	12	22.40665	247.8721	7.266325
0	12.01	22.39484	248.2007	7.506394
0	12.02	22.36066	248.5289	7.709529
0	12.03	22.42094	248.8573	7.746463
0	12.04	22.47686	249.1865	7.82033
0	12.05	22.5042	249.5164	7.949598
0	12.06	22.51911	249.8466	7.857264
0	12.07	22.56075	250.1771	8.134266
0	12.08	22.57193	250.5081	8.337402
0	12.09	22.57193	250.8392	8.485136
0	12.1	22.49985	251.1697	8.282001
0	12.11	22.56323	251.5002	8.355868
0	12.12	22.56323	251.8311	8.1712
0	12.13	22.54086	252.1619	8.041933
0	12.14	22.50234	252.4922	8.318935
0	12.15	22.51104	252.8223	8.078866
0	12.16	22.47065	253.1521	7.968065
0	12.17	22.43958	253.4815	7.986532
0	12.18	22.47872	253.8109	8.060399
0	12.19	22.42591	254.1402	7.949598
0	12.2	22.42342	254.4691	8.152733
0	12.21	22.42218	254.7979	8.134266
0	12.22	22.41224	255.1267	8.023465
0	12.23	22.3793	255.4552	7.894198
0	12.24	22.35196	255.7832	7.82033
0	12.25	22.40975	256.1115	7.709529
0	12.26	22.40602	256.4401	7.691062
0	12.27	22.36874	256.7685	7.838797
0	12.28	22.46816	257.0973	7.76493
0	12.29	22.53527	257.4273	7.709529
0	12.3	22.54521	257.7579	7.727996
0	12.31	22.49177	258.0882	7.746463
0	12.32	22.56075	258.4185	7.801864
0	12.33	22.55205	258.7494	7.450993
0	12.34	22.51414	259.0799	7.783397
0	12.35	22.5421	259.4103	7.82033
0	12.36	22.54708	259.7409	7.894197
0	12.37	22.5508	260.0716	7.875731
0	12.38	22.59865	260.4027	8.023465
0	12.39	22.63717	260.7345	7.672596
0	12.4	22.67694	261.0668	7.46946
0	12.41	22.65892	261.3992	7.284792
0	12.42	22.69185	261.7318	7.284792
0	12.43	22.78506	262.0653	7.358659
0	12.44	22.79438	262.3996	7.247858
0	12.45	22.80184	262.7339	7.358659
0	12.46	22.82856	263.0686	7.340192
0	12.47	22.85652	263.4036	7.192458
0	12.48	22.8677	263.7389	7.100124
0	12.49	22.84844	264.0741	7.137057

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	12.5	22.90623	264.4097	7.284792
0	12.51	22.91368	264.7457	7.303259
0	12.52	22.88075	265.0815	7.192458
0	12.53	22.81364	265.4166	7.137057
0	12.54	22.8385	265.7514	7.432527
0	12.55	22.81178	266.0862	7.395593
0	12.56	22.79376	266.4206	7.192458
0	12.57	22.84098	266.7552	7.06319
0	12.58	22.8677	267.0904	7.247859
0	12.59	22.88075	267.4259	7.137058
0	12.6	22.83726	267.7612	7.35866
0	12.61	22.89753	268.0966	7.450994
0	12.62	22.90312	268.4325	7.41406
0	12.63	22.93046	268.7686	7.469461
0	12.64	22.93233	269.1049	7.432527
0	12.65	22.95283	269.4414	7.432527
0	12.66	22.99136	269.7783	7.229392
0	12.67	22.946	270.1152	7.303259
0	12.68	22.90436	270.4514	7.377127
0	12.69	22.95967	270.7878	7.210925
0	12.7	22.95532	271.1245	7.137057
0	12.71	22.89939	271.4607	6.989323
0	12.72	22.92798	271.7968	7.118591
0	12.73	22.96091	272.1333	7.266326
0	12.74	22.96526	272.4701	7.192458
0	12.75	22.95842	272.8069	7.044723
0	12.76	23.02429	273.1441	6.823121
0	12.77	23.03858	273.4819	6.823121
0	12.78	22.97644	273.8193	6.675386
0	12.79	22.97209	274.1563	6.509185
0	12.8	23.04417	274.4937	6.546118
0	12.81	23.07524	274.832	6.379917
0	12.82	23.09885	275.1706	6.398384
0	12.83	23.08643	275.5093	6.379917
0	12.84	23.07276	275.8478	6.342983
0	12.85	23.08083	276.1862	6.416851
0	12.86	23.08208	276.5247	6.860055
0	12.87	23.05349	276.8631	7.081657
0	12.88	23.0945	277.2015	7.266325
0	12.89	23.09761	277.5402	7.395593
0	12.9	23.0566	277.8787	7.469461
0	12.91	23.05349	278.2168	7.469461
0	12.92	23.09264	278.5552	7.377126
0	12.93	23.04169	278.8936	7.395593
0	12.94	23.0218	279.2314	7.450994
0	12.95	23.06903	279.5694	7.450994
0	12.96	23.12495	279.9081	7.506394
0	12.97	23.13551	280.2474	7.543328
0	12.98	23.12371	280.5866	7.432527
0	12.99	23.15291	280.926	7.598728

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	13	23.17155	281.2657	7.303259
0	13.01	23.17466	281.6055	7.303259
0	13.02	23.20946	281.9457	7.524861
0	13.03	23.22872	282.2862	7.524861
0	13.04	23.24363	282.627	7.635662
0	13.05	23.2107	282.9677	7.395593
0	13.06	23.18957	283.308	7.229392
0	13.07	23.20821	283.6482	6.767721
0	13.08	23.25047	283.9889	6.896989
0	13.09	23.24985	284.3299	6.638453
0	13.1	23.26414	284.671	6.638453
0	13.11	23.26476	285.0122	6.860055
0	13.12	23.27035	285.3535	7.081657
0	13.13	23.22126	285.6944	7.173991
0	13.14	23.25171	286.0352	7.137058
0	13.15	23.33062	286.3768	6.952389
0	13.16	23.36729	286.7193	7.026256
0	13.17	23.32441	287.0617	6.915455
0	13.18	23.2542	287.4033	6.896989
0	13.19	23.27346	287.7445	7.06319
0	13.2	23.27532	288.0858	7.081657
0	13.21	23.23928	288.4269	7.284792
0	13.22	23.25171	288.7679	7.192458
0	13.23	23.25482	289.1089	7.026256
0	13.24	23.27843	289.4502	7.137057
0	13.25	23.31385	289.7918	7.06319
0	13.26	23.36977	290.1342	7.303259
0	13.27	23.39338	290.4771	7.210925
0	13.28	23.44868	290.8206	7.247858
0	13.29	23.44931	291.1645	7.044723
0	13.3	23.48845	291.5087	7.081657
0	13.31	23.48907	291.8533	7.081657
0	13.32	23.52636	292.198	7.229391
0	13.33	23.52263	292.5431	6.989323
0	13.34	23.53754	292.8882	6.933922
0	13.35	23.5481	293.2335	6.527651
0	13.36	23.5394	293.5788	7.007789
0	13.37	23.54873	293.9241	6.915455
0	13.38	23.56861	294.2696	7.007789
0	13.39	23.58414	294.6154	6.989322
0	13.4	23.56861	294.9612	6.896988
0	13.41	23.5394	295.3066	7.044723
0	13.42	23.58849	295.6522	7.007789
0	13.43	23.59284	295.9982	7.100124
0	13.44	23.52573	296.3438	7.06319
0	13.45	23.54873	296.689	7.026256
0	13.46	23.5276	297.0342	6.989322
0	13.47	23.49218	297.379	6.952389
0	13.48	23.53754	297.7239	6.970856
0	13.49	23.54189	298.0692	7.303259

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	13.5	23.55991	298.4146	7.340192
0	13.51	23.58725	298.7603	7.284792
0	13.52	23.60651	299.1064	7.229391
0	13.53	23.67238	299.4531	7.11859
0	13.54	23.71587	299.8006	6.970856
0	13.55	23.75937	300.1488	6.71232
0	13.56	23.75813	300.4972	6.989322
0	13.57	23.75378	300.8457	6.749254
0	13.58	23.71339	301.1938	6.638452
0	13.59	23.6817	301.5413	6.546118
0	13.6	23.70593	301.8888	6.527651
0	13.61	23.71525	302.2366	6.453784
0	13.62	23.72644	302.5845	6.453784
0	13.63	23.66927	302.9321	6.453784
0	13.64	23.68108	303.2793	6.435317
0	13.65	23.73203	303.627	6.509185
0	13.66	23.73141	303.9751	6.416851
0	13.67	23.77925	304.3235	6.527652
0	13.68	23.78671	304.6723	6.490718
0	13.69	23.72457	305.0207	6.398384
0	13.7	23.71836	305.3686	6.176782
0	13.71	23.72147	305.7165	5.95518
0	13.72	23.76807	306.0648	6.084447
0	13.73	23.74073	306.4132	6.213716
0	13.74	23.76931	306.7616	6.084448
0	13.75	23.77615	307.1102	6.139848
0	13.76	23.76807	307.4589	6.490718
0	13.77	23.81592	307.8078	6.287583
0	13.78	23.85133	308.1574	6.213715
0	13.79	23.88489	308.5075	6.213715
0	13.8	23.88551	308.8578	6.583052
0	13.81	23.86252	309.2079	6.583052
0	13.82	23.90539	309.5582	6.675386
0	13.83	23.87184	309.9086	6.564585
0	13.84	23.87308	310.2587	6.65692
0	13.85	23.86749	310.6088	6.675386
0	13.86	23.86128	310.9588	6.619986
0	13.87	23.81405	311.3085	6.786187
0	13.88	23.84947	311.658	6.675386
0	13.89	23.86749	312.0079	6.823121
0	13.9	23.88116	312.3581	6.952389
0	13.91	23.85071	312.7081	6.933922
0	13.92	23.8998	313.0583	7.432527
0	13.93	23.90726	313.4089	7.506394
0	13.94	23.89794	313.7594	7.229392
0	13.95	23.92403	314.1101	7.044723
0	13.96	23.9899	314.4615	7.192458
0	13.97	23.99301	314.8134	7.192458
0	13.98	24.00233	315.1653	7.487927
0	13.99	24.00357	315.5174	7.284792

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	14	23.96007	315.8691	7.543328
0	14.01	23.9725	316.2206	7.247858
0	14.02	24.00108	316.5724	7.229392
0	14.03	24.02407	316.9246	7.155524
0	14.04	23.99736	317.2768	7.044723
0	14.05	24.01351	317.6289	7.155524
0	14.06	24.01538	317.9811	7.081657
0	14.07	24.03402	318.3334	6.970856
0	14.08	24.07813	318.6862	6.860055
0	14.09	24.06446	319.0393	6.730787
0	14.1	24.0831	319.3924	6.71232
0	14.11	24.07068	319.7455	6.693853
0	14.12	24.07751	320.0986	6.601519
0	14.13	24.10423	320.4519	6.287583
0	14.14	24.09491	320.8054	6.213715
0	14.15	24.09243	321.1588	6.379917
0	14.16	24.06819	321.5119	6.619986
0	14.17	24.11479	321.8653	6.583052
0	14.18	24.12287	322.219	6.416851
0	14.19	24.16388	322.5731	6.084447
0	14.2	24.16078	322.9275	6.139848
0	14.21	24.17134	323.2819	5.992113
0	14.22	24.18377	323.6365	5.936713
0	14.23	24.19433	323.9913	6.139848
0	14.24	24.16761	324.346	6.232182
0	14.25	24.19247	324.7006	6.269116
0	14.26	24.22602	325.0557	6.065981
0	14.27	24.2459	325.4111	6.029047
0	14.28	24.22167	325.7666	6.213715
0	14.29	24.23286	326.1219	6.121381
0	14.3	24.23845	326.4774	6.379917
0	14.31	24.23596	326.8328	6.176782
0	14.32	24.22913	327.1882	6.342983
0	14.33	24.2341	327.5436	6.453784
0	14.34	24.2459	327.8992	6.564585
0	14.35	24.23286	328.2547	6.583052
0	14.36	24.25957	328.6103	6.601519
0	14.37	24.27262	328.9662	6.638453
0	14.38	24.2807	329.3222	6.546119
0	14.39	24.29561	329.6785	6.933922
0	14.4	24.32606	330.035	7.06319
0	14.41	24.37577	330.3922	7.137057
0	14.42	24.37204	330.7497	7.229391
0	14.43	24.36086	331.107	7.41406
0	14.44	24.36583	331.4644	7.192458
0	14.45	24.37515	331.8218	7.247858
0	14.46	24.36459	332.1792	7.229391
0	14.47	24.36459	332.5366	7.321726
0	14.48	24.38571	332.8941	7.266325
0	14.49	24.35527	333.2515	7.210925

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	14.5	24.36645	333.6088	7.266325
0	14.51	24.38509	333.9663	7.266325
0	14.52	24.38944	334.324	7.358659
0	14.53	24.37577	334.6816	7.340192
0	14.54	24.3913	335.0392	7.395593
0	14.55	24.42237	335.3972	7.340192
0	14.56	24.43107	335.7555	7.11859
0	14.57	24.38696	336.1135	7.081657
0	14.58	24.43418	336.4715	6.989322
0	14.59	24.43853	336.8299	7.11859
0	14.6	24.41554	337.1881	6.804654
0	14.61	24.43791	337.5464	7.284792
0	14.62	24.46711	337.905	7.229391
0	14.63	24.48886	338.264	7.11859
0	14.64	24.50315	338.6233	6.989322
0	14.65	24.53608	338.9829	7.007789
0	14.66	24.54416	339.3429	6.915455
0	14.67	24.54354	339.7028	6.786187
0	14.68	24.50999	340.0626	6.896988
0	14.69	24.49135	340.4219	7.081657
0	14.7	24.50688	340.7812	7.06319
0	14.71	24.49197	341.1406	7.137057
0	14.72	24.49383	341.4998	7.247858
0	14.73	24.50999	341.8591	7.229391
0	14.74	24.52863	342.2188	7.266325
0	14.75	24.54851	342.5787	7.081657
0	14.76	24.53795	342.9386	7.11859
0	14.77	24.51931	343.2984	7.487927
0	14.78	24.48451	343.6577	7.284792
0	14.79	24.48637	344.0169	7.026256
0	14.8	24.4783	344.3759	6.989322
0	14.81	24.49694	344.7351	7.007789
0	14.82	24.54168	345.0947	6.601519
0	14.83	24.56902	345.4548	6.675386
0	14.84	24.58766	345.8153	6.693853
0	14.85	24.62494	346.1762	6.453784
0	14.86	24.65539	346.5376	6.509185
0	14.87	24.66844	346.8993	6.546118
0	14.88	24.68708	347.2613	6.71232
0	14.89	24.67527	347.6233	6.546118
0	14.9	24.66595	347.9851	6.342983
0	14.91	24.6616	348.3468	6.324516
0	14.92	24.59449	348.708	6.269116
0	14.93	24.61873	349.0689	5.973646
0	14.94	24.64855	349.4302	6.029047
0	14.95	24.61376	349.7915	5.992113
0	14.96	24.64358	350.1527	6.139848
0	14.97	24.63364	350.5141	6.029047
0	14.98	24.67465	350.8757	5.862845
0	14.99	24.68211	351.2376	6.01058

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	15	24.69453	351.5997	6.453784
0	15.01	24.72063	351.9621	6.564585
0	15.02	24.74052	352.3248	6.749253
0	15.03	24.743	352.6877	6.860054
0	15.04	24.71504	353.0504	6.823121
0	15.05	24.69702	353.4127	6.952389
0	15.06	24.70075	353.775	7.06319
0	15.07	24.73057	354.1375	7.210924
0	15.08	24.7256	354.5002	7.137057
0	15.09	24.73989	354.8629	7.340192
0	15.1	24.76661	355.2259	7.41406
0	15.11	24.76599	355.5892	7.358659
0	15.12	24.74859	355.9523	7.395593
0	15.13	24.77718	356.3155	7.340192
0	15.14	24.8039	356.6791	7.395593
0	15.15	24.82999	357.0431	7.432526
0	15.16	24.82999	357.4072	7.450993
0	15.17	24.86479	357.7717	7.377126
0	15.18	24.89399	358.1366	7.266325
0	15.19	24.86852	358.5015	7.340192
0	15.2	24.86914	358.8662	7.395593
0	15.21	24.89586	359.2312	7.358659
0	15.22	24.89027	359.5963	7.100123
0	15.23	24.9406	359.9617	6.933922
0	15.24	24.95862	360.3276	6.970856
0	15.25	24.91388	360.6934	7.100123
0	15.26	24.95054	361.059	7.11859
0	15.27	24.9524	361.425	7.210924
0	15.28	24.95365	361.791	7.229391
0	15.29	24.96359	362.157	7.06319
0	15.3	24.96297	362.5231	7.137057
0	15.31	24.99031	362.8895	7.229391
0	15.32	24.99403	363.256	7.303259
0	15.33	24.98099	363.6225	7.321726
0	15.34	24.96048	363.9887	7.46946
0	15.35	24.96545	364.3549	7.672595
0	15.36	24.98285	364.7212	7.654129
0	15.37	24.94743	365.0873	7.912664
0	15.38	24.935	365.4531	8.023466
0	15.39	24.95675	365.819	8.208134
0	15.4	24.91574	366.1847	7.949598
0	15.41	24.89897	366.55	7.82033
0	15.42	24.8623	366.9149	7.598728
0	15.43	24.83931	367.2794	7.580262
0	15.44	24.89462	367.6441	7.598728
0	15.45	24.88716	368.0092	7.340193
0	15.46	24.88032	368.3742	7.118591
0	15.47	24.93003	368.7394	7.155524
0	15.48	24.91574	369.105	7.137057
0	15.49	24.90269	369.4703	6.896989

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	15.5	24.90953	369.8356	7.026256
0	15.51	24.89586	370.2008	6.915455
0	15.52	24.93873	370.5663	6.860055
0	15.53	24.98036	370.9324	7.081657
0	15.54	25.00398	371.2989	7.118591
0	15.55	25.05493	371.666	7.007789
0	15.56	25.09718	372.0338	6.693853
0	15.57	25.12701	372.4021	6.786187
0	15.58	25.12825	372.7706	6.509185
0	15.59	25.12328	373.1392	6.509185
0	15.6	25.086	373.5074	6.675386
0	15.61	25.07792	373.8752	6.896988
0	15.62	25.12142	374.2434	7.044723
0	15.63	25.12701	374.6118	6.767721
0	15.64	25.09967	374.9802	6.841588
0	15.65	25.0686	375.3481	6.841588
0	15.66	25.02821	375.7155	6.804654
0	15.67	25.03194	376.0826	6.841588
0	15.68	25.08662	376.4501	6.878522
0	15.69	25.10029	376.8181	6.823121
0	15.7	25.11831	377.1864	6.841588
0	15.71	25.12825	377.5549	6.970856
0	15.72	25.15186	377.9236	6.878521
0	15.73	25.20965	378.2929	6.619986
0	15.74	25.18417	378.6625	6.546118
0	15.75	25.16491	379.0317	6.804654
0	15.76	25.18417	379.4009	6.878522
0	15.77	25.2053	379.7704	7.081657
0	15.78	25.16056	380.1398	6.71232
0	15.79	25.14316	380.5087	6.693853
0	15.8	25.14503	380.8775	6.804654
0	15.81	25.15683	381.2464	6.76772
0	15.82	25.23388	381.6159	6.76772
0	15.83	25.20344	381.9858	6.749253
0	15.84	25.18107	382.3552	7.044723
0	15.85	25.14068	382.7243	7.007789
0	15.86	25.17299	383.0932	7.06319
0	15.87	25.20344	383.4627	7.155524
0	15.88	25.23202	383.8325	7.321725
0	15.89	25.21773	384.2025	7.137057
0	15.9	25.2488	384.5726	7.395593
0	15.91	25.20033	384.9425	7.432526
0	15.92	25.21214	385.3122	7.46946
0	15.93	25.31093	385.6827	7.340192
0	15.94	25.26309	386.0536	7.524861
0	15.95	25.28546	386.4243	7.561794
0	15.96	25.26744	386.795	7.266325
0	15.97	25.23637	387.1654	7.266325
0	15.98	25.25812	387.5357	7.377126
0	15.99	25.24445	387.906	7.727996

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	16	25.25563	388.2764	7.764929
0	16.01	25.25501	388.6468	7.617195
0	16.02	25.28546	389.0174	7.709529
0	16.03	25.27676	389.3882	7.543328
0	16.04	25.3302	389.7593	7.598728
0	16.05	25.29229	390.1305	7.617195
0	16.06	25.3333	390.5018	7.672595
0	16.07	25.39668	390.8738	7.41406
0	16.08	25.39047	391.2462	7.284792
0	16.09	25.3855	391.6186	7.155524
0	16.1	25.36064	391.9907	7.192458
0	16.11	25.33144	392.3625	6.952389
0	16.12	25.28794	392.7337	7.044723
0	16.13	25.34573	393.105	6.952389
0	16.14	25.33579	393.4767	7.173991
0	16.15	25.32212	393.8482	6.989322
0	16.16	25.33392	394.2196	7.026256
0	16.17	25.25812	394.5907	6.786187
0	16.18	25.25253	394.9611	6.749254
0	16.19	25.25625	395.3315	6.656919
0	16.2	25.30721	395.7023	6.730787
0	16.21	25.37494	396.0739	6.656919
0	16.22	25.38488	396.4462	6.490718
0	16.23	25.38736	396.8185	6.047514
0	16.24	25.39606	397.1909	6.213715
0	16.25	25.4321	397.5636	6.232182
0	16.26	25.48243	397.937	6.232182
0	16.27	25.51226	398.311	6.158315
0	16.28	25.52096	398.6852	6.435317
0	16.29	25.56632	399.0599	6.435317
0	16.3	25.55203	399.4347	6.306049
0	16.31	25.56694	399.8096	6.139848
0	16.32	25.55948	400.1845	6.158315
0	16.33	25.59428	400.5597	6.01058
0	16.34	25.63218	400.9353	5.955179
0	16.35	25.65704	401.3114	6.01058
0	16.36	25.64772	401.6877	6.324516
0	16.37	25.60236	402.0635	6.084447
0	16.38	25.60857	402.4391	6.306049
0	16.39	25.65517	402.815	6.583052
0	16.4	25.6415	403.1912	6.41685
0	16.41	25.63529	403.5672	6.379917
0	16.42	25.5949	403.9429	6.379917
0	16.43	25.57502	404.3181	6.398384
0	16.44	25.60236	404.6934	6.546118
0	16.45	25.57129	405.0687	6.472251
0	16.46	25.61106	405.444	6.139848
0	16.47	25.63405	405.8198	6.435317
0	16.48	25.56259	406.1953	6.71232
0	16.49	25.60049	406.5705	6.490718

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	16.5	25.56321	406.9457	6.675386
0	16.51	25.58496	407.3208	6.786187
0	16.52	25.61851	407.6963	7.007789
0	16.53	25.56321	408.0716	7.321726
0	16.54	25.59552	408.4468	7.358659
0	16.55	25.60236	408.8222	7.340193
0	16.56	25.59987	409.1977	7.303259
0	16.57	25.59179	409.5731	7.377126
0	16.58	25.56507	409.9482	7.801863
0	16.59	25.58993	410.3234	7.857264
0	16.6	25.59055	410.6987	7.469461
0	16.61	25.59179	411.074	7.635662
0	16.62	25.61416	411.4496	7.506394
0	16.63	25.61478	411.8252	7.321726
0	16.64	25.57688	412.2006	7.432527
0	16.65	25.55327	412.5756	7.450993
0	16.66	25.54643	412.9503	7.487927
0	16.67	25.55203	413.325	7.691062
0	16.68	25.59614	413.7001	7.450994
0	16.69	25.63529	414.0758	7.155524
0	16.7	25.61416	414.4517	7.321726
0	16.71	25.6036	414.8273	7.247858
0	16.72	25.63467	415.203	7.229391
0	16.73	25.64275	415.579	7.432526
0	16.74	25.6384	415.9551	7.395593
0	16.75	25.58744	416.3308	7.450993
0	16.76	25.64088	416.7064	7.635662
0	16.77	25.66387	417.0827	7.46946
0	16.78	25.66263	417.4591	7.210924
0	16.79	25.70116	417.8357	6.693853
0	16.8	25.68997	418.2126	6.749253
0	16.81	25.65331	418.5891	7.044723
0	16.82	25.67195	418.9655	6.804654
0	16.83	25.61851	419.3416	6.841588
0	16.84	25.60919	419.7173	6.749254
0	16.85	25.61603	420.0929	6.786187
0	16.86	25.60795	420.4686	6.915455
0	16.87	25.62348	420.8443	6.675386
0	16.88	25.6502	421.2203	6.970856
0	16.89	25.66884	421.5966	6.952389
0	16.9	25.71731	421.9735	6.952389
0	16.91	25.79498	422.3512	6.786188
0	16.92	25.83972	422.7299	6.823121
0	16.93	25.89192	423.1092	7.118591
0	16.94	25.9497	423.4894	6.860055
0	16.95	25.98699	423.8703	6.564586
0	16.96	25.99569	424.2515	6.287583
0	16.97	25.96959	424.6326	6.084448
0	16.98	26.00811	425.0137	6.029047
0	16.99	26.04477	425.3955	6.029047

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	17	26.06341	425.7776	6.398384
0	17.01	26.07149	426.1599	6.232183
0	17.02	26.06279	426.5422	5.881312
0	17.03	26.04105	426.9243	6.01058
0	17.04	26.00998	427.306	5.95518
0	17.05	25.96897	427.6872	6.029047
0	17.06	26.00936	428.0684	5.918246
0	17.07	26.01868	428.4499	5.696644
0	17.08	25.95281	428.831	5.95518
0	17.09	25.9379	429.2116	5.678177
0	17.1	25.91118	429.5918	5.567376
0	17.11	25.8739	429.9716	5.548909
0	17.12	25.80492	430.3505	5.456575
0	17.13	25.74838	430.7286	5.567376
0	17.14	25.7229	431.1061	5.234973
0	17.15	25.65145	431.4828	5.179572
0	17.16	25.64523	431.859	5.105705
0	17.17	25.69246	432.2355	5.271907
0	17.18	25.67071	432.6121	5.475042
0	17.19	25.64337	432.9884	5.475042
0	17.2	25.6589	433.3646	5.475042
0	17.21	25.69991	433.7413	5.60431
0	17.22	25.70985	434.1183	5.622777
0	17.23	25.7198	434.4954	5.95518
0	17.24	25.77013	434.873	5.95518
0	17.25	25.76081	435.2509	5.936713
0	17.26	25.78442	435.6289	6.102914
0	17.27	25.83102	436.0074	6.36145
0	17.28	25.88011	436.3866	6.36145
0	17.29	25.85588	436.766	6.269116
0	17.3	25.88446	437.1455	6.472251
0	17.31	25.91242	437.5253	6.860055
0	17.32	25.89875	437.9053	6.878521
0	17.33	25.94349	438.2854	7.192458
0	17.34	25.93106	438.6658	7.081657
0	17.35	25.94349	439.0463	7.173991
0	17.36	25.95157	439.4268	7.377126
0	17.37	25.96213	439.8075	7.691062
0	17.38	26.02116	440.1887	7.838797
0	17.39	26.05969	440.5707	7.709529
0	17.4	26.0572	440.9528	7.949598
0	17.41	26.07211	441.3351	7.968065
0	17.42	26.03297	441.7172	7.635662
0	17.43	26.0137	442.0989	7.654129
0	17.44	25.99071	442.4803	7.543328
0	17.45	25.98202	442.8614	7.377126
0	17.46	25.98202	443.2425	7.506394
0	17.47	25.98574	443.6236	7.561794
0	17.48	26.02303	444.005	7.41406
0	17.49	26.03794	444.3868	7.654129

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	17.5	26.10132	444.7691	7.912664
0	17.51	26.09075	445.1518	7.543328
0	17.52	26.0951	445.5345	7.229391
0	17.53	26.09821	445.9173	7.46946
0	17.54	26.11375	446.3002	7.377126
0	17.55	26.11188	446.6832	7.487927
0	17.56	26.06279	447.0658	7.450994
0	17.57	26.03856	447.4479	7.247858
0	17.58	26.01557	447.8296	7.100124
0	17.59	26.02986	448.2113	7.284792
0	17.6	26.0106	448.5929	7.137058
0	17.61	26.0019	448.9743	7.06319
0	17.62	26.06155	449.3561	7.118591
0	17.63	26.10194	449.7386	7.229392
0	17.64	26.0485	450.1211	7.100124
0	17.65	26.01743	450.5029	7.155524
0	17.66	25.99196	450.8843	7.266325
0	17.67	25.95405	451.2652	7.100124
0	17.68	25.9553	451.6459	7.137058
0	17.69	25.94163	452.0265	7.081657
0	17.7	25.9845	452.4073	6.767721
0	17.71	26.02178	452.7887	6.71232
0	17.72	25.99444	453.1701	7.210925
0	17.73	26.02178	453.5516	7.026257
0	17.74	26.05534	453.9335	6.804654
0	17.75	26.05969	454.3156	6.804654
0	17.76	26.12182	454.6983	6.583052
0	17.77	26.09324	455.0812	6.693853
0	17.78	26.10132	455.464	6.804654
0	17.79	26.11375	455.8469	6.786187
0	17.8	26.10877	456.2298	6.656919
0	17.81	26.1125	456.6128	6.730787
0	17.82	26.09138	456.9956	6.601519
0	17.83	26.13549	457.3786	6.472251
0	17.84	26.19639	457.7624	6.509185
0	17.85	26.1852	458.1465	6.619986
0	17.86	26.17464	458.5305	6.71232
0	17.87	26.14295	458.9142	6.749254
0	17.88	26.13301	459.2975	6.619986
0	17.89	26.17588	459.6811	6.509185
0	17.9	26.13239	460.0647	6.509185
0	17.91	26.12244	460.4479	6.490718
0	17.92	26.13239	460.8311	6.398384
0	17.93	26.16532	461.2146	6.01058
0	17.94	26.22497	461.5988	6.121381
0	17.95	26.25666	461.9837	6.195248
0	17.96	26.24672	462.3687	6.324516
0	17.97	26.24858	462.7537	6.287583
0	17.98	26.25355	463.1387	6.287583
0	17.99	26.25853	463.5238	6.416851

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	18	26.27406	463.909	6.250649
0	18.01	26.29394	464.2945	6.269116
0	18.02	26.31072	464.6803	6.342983
0	18.03	26.31631	465.0662	6.398384
0	18.04	26.28959	465.452	6.416851
0	18.05	26.27033	465.8374	6.36145
0	18.06	26.26847	466.2227	6.638453
0	18.07	26.25355	466.6079	6.472251
0	18.08	26.25728	466.993	6.453784
0	18.09	26.27841	467.3782	6.675386
0	18.1	26.27965	467.7637	6.804654
0	18.11	26.2722	468.149	6.952389
0	18.12	26.22249	468.534	6.952389
0	18.13	26.23616	468.9187	6.952389
0	18.14	26.2548	469.3036	6.896988
0	18.15	26.27779	469.6889	7.100123
0	18.16	26.3393	470.0747	6.823121
0	18.17	26.34925	470.4611	6.638452
0	18.18	26.3275	470.8474	6.71232
0	18.19	26.3393	471.2336	6.878521
0	18.2	26.34676	471.62	6.841588
0	18.21	26.37037	472.0066	6.730787
0	18.22	26.3536	472.3932	6.619986
0	18.23	26.36851	472.7799	6.619986
0	18.24	26.40828	473.1669	6.583052
0	18.25	26.42567	473.5543	6.71232
0	18.26	26.4089	473.9418	6.638452
0	18.27	26.34614	474.3287	6.472251
0	18.28	26.3188	474.7149	6.527652
0	18.29	26.31321	475.1008	6.693853
0	18.3	26.29146	475.4866	6.619986
0	18.31	26.3654	475.8727	6.656919
0	18.32	26.37472	476.2595	6.269116
0	18.33	26.3536	476.6462	6.139848
0	18.34	26.36105	477.0328	6.029047
0	18.35	26.3741	477.4195	6.029047
0	18.36	26.34552	477.8061	5.770511
0	18.37	26.3362	478.1924	6.139848
0	18.38	26.34117	478.5787	6.36145
0	18.39	26.40579	478.9655	6.601519
0	18.4	26.44059	479.3531	6.527652
0	18.41	26.40579	479.7406	6.601519
0	18.42	26.45053	480.1282	6.933922
0	18.43	26.48657	480.5164	6.767721
0	18.44	26.48346	480.9049	6.933922
0	18.45	26.45115	481.2931	7.06319
0	18.46	26.48098	481.6812	6.933922
0	18.47	26.49402	482.0697	6.749254
0	18.48	26.50956	482.4584	6.767721
0	18.49	26.50335	482.8472	6.989323

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	18.5	26.47725	483.2357	6.915455
0	18.51	26.46544	483.6239	7.026256
0	18.52	26.47103	484.0121	6.804654
0	18.53	26.44121	484.4002	6.952389
0	18.54	26.44121	484.788	7.155524
0	18.55	26.43562	485.1757	7.229391
0	18.56	26.45488	485.5636	7.432527
0	18.57	26.51329	485.952	7.561795
0	18.58	26.54684	486.3411	7.857264
0	18.59	26.5717	486.7307	7.580261
0	18.6	26.57045	487.1204	7.506394
0	18.61	26.57667	487.5101	7.340192
0	18.62	26.5804	487.9	7.192458
0	18.63	26.59531	488.2899	7.026256
0	18.64	26.627	488.6802	7.081657
0	18.65	26.67547	489.0711	6.896988
0	18.66	26.68851	489.4624	6.786187
0	18.67	26.68789	489.8539	6.693853
0	18.68	26.70467	490.2454	6.786187
0	18.69	26.7202	490.6372	6.693853
0	18.7	26.74382	491.0292	6.379917
0	18.71	26.75749	491.4216	6.139848
0	18.72	26.79415	491.8143	5.881312
0	18.73	26.80533	492.2074	6.121381
0	18.74	26.7898	492.6004	6.527651
0	18.75	26.79539	492.9934	6.730786
0	18.76	26.78607	493.3863	6.693853
0	18.77	26.76059	493.779	6.583052
0	18.78	26.74941	494.1714	6.601519
0	18.79	26.74879	494.5637	6.158315
0	18.8	26.76246	494.9561	6.232182
0	18.81	26.77426	495.3487	6.195248
0	18.82	26.79974	495.7416	6.176781
0	18.83	26.84324	496.135	5.918246
0	18.84	26.85007	496.5287	5.881312
0	18.85	26.84883	496.9225	5.955179
0	18.86	26.85193	497.3163	5.955179
0	18.87	26.85566	497.7102	6.176782
0	18.88	26.87555	498.1042	6.527652
0	18.89	26.87182	498.4983	6.71232
0	18.9	26.9004	498.8927	6.804654
0	18.91	26.89978	499.2872	6.970856
0	18.92	26.89357	499.6817	7.210925
0	18.93	26.89729	500.0762	7.450994
0	18.94	26.93955	500.471	7.173991
0	18.95	26.91966	500.8659	6.952389
0	18.96	26.9091	501.2607	6.915455
0	18.97	26.9004	501.6553	7.026257
0	18.98	26.91469	502.0499	7.00779
0	18.99	26.94638	502.4449	6.970856

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	19	26.96813	502.8403	7.044723
0	19.01	26.9644	503.2358	6.952389
0	19.02	26.95508	503.6312	7.026257
0	19.03	26.96316	504.0266	6.989323
0	19.04	26.99112	504.4223	7.210925
0	19.05	27.0079	504.8183	7.247859
0	19.06	27.02157	505.2145	7.340193
0	19.07	27.05947	505.6111	7.487928
0	19.08	27.03524	506.0078	7.524861
0	19.09	27.08308	506.4046	7.598728
0	19.1	27.07749	506.8018	7.580261
0	19.11	27.07376	507.1989	7.487927
0	19.12	27.10048	507.5962	7.229391
0	19.13	27.10545	507.9937	7.100123
0	19.14	27.11975	508.3913	7.173991
0	19.15	27.14087	508.7893	7.321726
0	19.16	27.13839	509.1873	7.155524
0	19.17	27.11167	509.5851	7.026256
0	19.18	27.11229	509.9828	7.081657
0	19.19	27.14212	510.3807	6.970856
0	19.2	27.17753	510.779	6.841588
0	19.21	27.14087	511.1773	6.878521
0	19.22	27.07128	511.5749	6.933922
0	19.23	27.07625	511.972	6.915455
0	19.24	27.08806	512.3692	6.878521
0	19.25	27.1098	512.7666	6.804654
0	19.26	27.1154	513.1643	6.896988
0	19.27	27.12223	513.562	6.804654
0	19.28	27.16324	513.9601	6.435317
0	19.29	27.18064	514.3586	6.398384
0	19.3	27.24278	514.7577	6.176782
0	19.31	27.26142	515.1574	6.139848
0	19.32	27.24153	515.5571	6.102914
0	19.33	27.23656	515.9566	6.029047
0	19.34	27.26887	516.3563	6.232182
0	19.35	27.2639	516.7562	5.918246
0	19.36	27.28006	517.1562	6.047514
0	19.37	27.29808	517.5565	6.102914
0	19.38	27.29	517.9568	5.862845
0	19.39	27.30119	518.3571	5.696644
0	19.4	27.28876	518.7574	5.918246
0	19.41	27.26142	519.1575	6.084447
0	19.42	27.3161	519.5577	5.844379
0	19.43	27.32791	519.9584	5.770511
0	19.44	27.36519	520.3595	5.678177
0	19.45	27.31672	520.7605	6.047514
0	19.46	27.30616	521.1611	6.158315
0	19.47	27.29808	521.5615	5.973647
0	19.48	27.27944	521.9618	5.825912
0	19.49	27.30429	522.362	6.102914

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	19.5	27.4062	522.7632	5.825912
0	19.51	27.47766	523.1657	5.65971
0	19.52	27.49257	523.5688	5.770511
0	19.53	27.48884	523.972	5.825912
0	19.54	27.43913	524.3748	5.881312
0	19.55	27.42546	524.7772	5.696644
0	19.56	27.47517	525.1798	5.715111
0	19.57	27.50251	525.583	5.530442
0	19.58	27.45156	525.986	5.290374
0	19.59	27.45715	526.3886	5.548909
0	19.6	27.43664	526.7912	5.622777
0	19.61	27.43727	527.1936	5.456575
0	19.62	27.46771	527.5962	5.290374
0	19.63	27.48573	527.9992	5.585843
0	19.64	27.47703	528.4023	5.807445
0	19.65	27.38631	528.8046	5.715111
0	19.66	27.38569	529.2063	5.456575
0	19.67	27.36954	529.6078	5.382708
0	19.68	27.39874	530.0094	5.622777
0	19.69	27.46523	530.4118	6.01058
0	19.7	27.50935	530.8149	5.992113
0	19.71	27.45839	531.218	6.102914
0	19.72	27.4441	531.6206	6.509184
0	19.73	27.48263	532.0234	6.324516
0	19.74	27.49195	532.4266	6.158315
0	19.75	27.51618	532.83	6.71232
0	19.76	27.5168	533.2335	7.229391
0	19.77	27.58205	533.6376	7.303259
0	19.78	27.6243	534.0425	7.229391
0	19.79	27.62989	534.4476	7.395593
0	19.8	27.63611	534.8529	7.450993
0	19.81	27.68644	535.2586	7.46946
0	19.82	27.70446	535.6648	7.506394
0	19.83	27.70197	536.0711	7.580261
0	19.84	27.69389	536.4774	7.358659
0	19.85	27.68209	536.8835	7.11859
0	19.86	27.68457	537.2895	7.321725
0	19.87	27.67649	537.6955	7.321725
0	19.88	27.65847	538.1013	7.192458
0	19.89	27.67898	538.5071	7.100123
0	19.9	27.66469	538.9129	6.878521
0	19.91	27.67774	539.3188	6.71232
0	19.92	27.67463	539.7247	6.638453
0	19.93	27.69389	540.1307	6.324516
0	19.94	27.67712	540.5368	6.435317
0	19.95	27.65847	540.9426	6.675386
0	19.96	27.67463	541.3483	6.213715
0	19.97	27.65599	541.7541	5.678177
0	19.98	27.66842	542.1598	5.715111
0	19.99	27.68333	542.5657	5.844379

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	20	27.68395	542.9718	5.678177
0	20.01	27.73242	543.3781	5.770511
0	20.02	27.7989	543.7854	5.733578
0	20.03	27.83929	544.1934	5.60431
0	20.04	27.84737	544.6018	5.752044
0	20.05	27.83867	545.0101	6.213716
0	20.06	27.84799	545.4185	6.158315
0	20.07	27.81195	545.8267	6.176782
0	20.08	27.79518	546.2344	6.195249
0	20.09	27.78834	546.6421	6.30605
0	20.1	27.78772	547.0496	6.527652
0	20.11	27.82003	547.4574	6.398384
0	20.12	27.8946	547.866	6.675386
0	20.13	27.93871	548.2754	6.767721
0	20.14	27.93561	548.6852	6.823121
0	20.15	27.91075	549.0947	6.786187
0	20.16	27.91386	549.5041	6.583052
0	20.17	27.91883	549.9135	6.749254
0	20.18	27.95798	550.3233	6.915455
0	20.19	27.94928	550.7333	6.933922
0	20.2	27.9412	551.1431	7.081657
0	20.21	27.95798	551.5531	7.303259
0	20.22	27.9791	551.9633	7.192458
0	20.23	28.02508	552.374	7.284792
0	20.24	28.03938	552.7851	7.450994
0	20.25	28.05864	553.1965	7.321726
0	20.26	28.06299	553.6081	6.841588
0	20.27	28.01701	554.0193	6.896988
0	20.28	27.99526	554.4301	6.896988
0	20.29	27.9791	554.8405	6.823121
0	20.3	27.92131	555.2505	6.878521
0	20.31	27.90764	555.6599	6.915455
0	20.32	27.91075	556.0692	6.989323
0	20.33	27.93001	556.4787	6.970856
0	20.34	27.97289	556.8887	6.915455
0	20.35	27.96667	557.2989	6.970856
0	20.36	27.95673	557.709	7.081657
0	20.37	27.93809	558.1189	7.118591
0	20.38	27.98469	558.529	6.952389
0	20.39	28.02322	558.9397	6.619986
0	20.4	28.04372	559.3509	6.564585
0	20.41	28.07106	559.7624	6.472251
0	20.42	28.06547	560.1741	6.546119
0	20.43	28.03751	560.5855	6.490718
0	20.44	28.05491	560.9968	6.435318
0	20.45	28.06609	561.4084	6.453784
0	20.46	28.07231	561.8201	6.509185
0	20.47	28.08971	562.2319	6.989323
0	20.48	28.06858	562.6438	7.229392
0	20.49	28.07044	563.0554	7.321726

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	20.5	28.10462	563.4674	7.340193
0	20.51	28.15806	563.88	7.192458
0	20.52	28.20342	564.2933	7.118591
0	20.53	28.2028	564.7069	7.137057
0	20.54	28.25002	565.1209	7.100124
0	20.55	28.26183	565.5354	7.044723
0	20.56	28.27115	565.9499	7.11859
0	20.57	28.24008	566.3643	7.026256
0	20.58	28.22517	566.7784	6.915455
0	20.59	28.23946	567.1925	6.860055
0	20.6	28.19285	567.6063	7.192458
0	20.61	28.19907	568.0199	7.321726
0	20.62	28.21149	568.4335	7.41406
0	20.63	28.24318	568.8476	7.506394
0	20.64	28.26555	569.2619	7.543328
0	20.65	28.25188	569.6764	7.46946
0	20.66	28.20404	570.0904	7.543328
0	20.67	28.18913	570.504	7.395593
0	20.68	28.21895	570.9176	7.137057
0	20.69	28.23076	571.3316	7.247858
0	20.7	28.17421	571.7452	6.841588
0	20.71	28.20839	572.1587	7.11859
0	20.72	28.22206	572.5725	7.192458
0	20.73	28.20839	572.9863	6.989322
0	20.74	28.23386	573.4003	7.321726
0	20.75	28.24318	573.8144	7.155524
0	20.76	28.25996	574.2288	7.118591
0	20.77	28.25748	574.6432	7.06319
0	20.78	28.29973	575.058	7.044723
0	20.79	28.27487	575.4729	7.506394
0	20.8	28.27301	575.8876	7.580261
0	20.81	28.30346	576.3025	7.321726
0	20.82	28.32458	576.7177	7.210925
0	20.83	28.35192	577.1334	6.970856
0	20.84	28.38299	577.5494	6.878522
0	20.85	28.40598	577.9659	6.860055
0	20.86	28.44202	578.3827	6.915455
0	20.87	28.41655	578.7997	6.638453
0	20.88	28.42587	579.2166	6.823121
0	20.89	28.41841	579.6334	6.638453
0	20.9	28.43332	580.0503	6.601519
0	20.91	28.47806	580.4677	6.933922
0	20.92	28.52467	580.8857	6.841588
0	20.93	28.53647	581.3041	6.933922
0	20.94	28.52591	581.7226	6.933922
0	20.95	28.54766	582.1411	6.453784
0	20.96	28.54641	582.5598	6.65692
0	20.97	28.55636	582.9786	6.823121
0	20.98	28.57997	583.3976	6.749254
0	20.99	28.56754	583.8167	6.76772

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	21	28.57189	584.2357	6.490718
0	21.01	28.55946	584.6547	6.490718
0	21.02	28.5141	585.0732	7.06319
0	21.03	28.50478	585.4913	7.044723
0	21.04	28.45818	585.9091	6.933922
0	21.05	28.48738	586.3267	6.823121
0	21.06	28.52467	586.7447	6.841588
0	21.07	28.52218	587.1631	6.76772
0	21.08	28.57065	587.5818	6.841588
0	21.09	28.59923	588.001	7.044723
0	21.1	28.61787	588.4206	7.044723
0	21.11	28.55946	588.8399	6.841588
0	21.12	28.50913	589.2584	6.675386
0	21.13	28.5228	589.6766	6.619985
0	21.14	28.52653	590.095	6.693853
0	21.15	28.55698	590.5136	6.823121
0	21.16	28.61725	590.9329	6.915455
0	21.17	28.58432	591.3524	6.601519
0	21.18	28.57438	591.7715	6.509184
0	21.19	28.60482	592.1909	6.527651
0	21.2	28.60917	592.6104	6.435317
0	21.21	28.63589	593.0302	6.232182
0	21.22	28.63589	593.4502	6.416851
0	21.23	28.64583	593.8703	6.121381
0	21.24	28.60793	594.2901	6.269116
0	21.25	28.57748	594.7095	6.435317
0	21.26	28.56878	595.1286	6.36145
0	21.27	28.51535	595.5472	6.453784
0	21.28	28.50913	595.9654	6.490718
0	21.29	28.48614	596.3833	6.638453
0	21.3	28.50665	596.8013	6.269116
0	21.31	28.50602	597.2194	6.232182
0	21.32	28.54206	597.6377	6.213716
0	21.33	28.55201	598.0564	6.158315
0	21.34	28.59302	598.4755	6.232182
0	21.35	28.62595	598.8951	6.139848
0	21.36	28.66696	599.3152	6.195249
0	21.37	28.70362	599.736	6.324517
0	21.38	28.73469	600.1572	6.509185
0	21.39	28.72848	600.5786	6.472251
0	21.4	28.76079	601.0002	6.398384
0	21.41	28.7844	601.4221	6.823121
0	21.42	28.80925	601.8445	7.155524
0	21.43	28.81236	602.2671	6.915455
0	21.44	28.79248	602.6895	7.026256
0	21.45	28.79869	603.1118	7.377126
0	21.46	28.76017	603.5339	7.284792
0	21.47	28.75706	603.9557	7.691063
0	21.48	28.75519	604.3775	7.561795
0	21.49	28.73283	604.7991	7.395593

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	21.5	28.75085	605.2206	7.395593
0	21.51	28.73966	605.6422	7.617195
0	21.52	28.71108	606.0635	7.746463
0	21.53	28.73531	606.4848	7.82033
0	21.54	28.76886	606.9065	7.968065
0	21.55	28.79993	607.3286	7.746463
0	21.56	28.76327	607.7508	7.598728
0	21.57	28.73966	608.1725	7.340193
0	21.58	28.74774	608.594	7.210925
0	21.59	28.78502	609.0159	7.118591
0	21.6	28.78688	609.4381	7.303259
0	21.61	28.84778	609.8608	7.284792
0	21.62	28.89127	610.2842	6.989323
0	21.63	28.91364	610.7081	6.952389
0	21.64	28.93291	611.1323	7.06319
0	21.65	28.95776	611.5569	7.06319
0	21.66	28.93726	611.9814	6.841588
0	21.67	28.94782	612.4059	6.952389
0	21.68	28.99132	612.8308	6.583052
0	21.69	29.00188	613.2561	6.527652
0	21.7	29.01866	613.6816	6.915455
0	21.71	29.00126	614.107	7.100124
0	21.72	28.96584	614.5321	6.933922
0	21.73	28.95465	614.9569	7.007789
0	21.74	28.97205	615.3817	7.173991
0	21.75	28.98075	615.8067	6.989322
0	21.76	29.02363	616.232	7.026256
0	21.77	29.04662	616.6579	6.970856
0	21.78	28.97827	617.0834	7.044723
0	21.79	28.97454	617.5084	6.933922
0	21.8	28.96211	617.9333	7.007789
0	21.81	28.959	618.358	7.11859
0	21.82	28.96957	618.7828	7.210924
0	21.83	28.97951	619.2078	7.210924
0	21.84	28.99007	619.6329	7.210924
0	21.85	28.9938	620.0581	7.395593
0	21.86	29.00499	620.4834	7.173991
0	21.87	29.01555	620.9089	6.952389
0	21.88	29.0404	621.3347	7.173991
0	21.89	29.02487	621.7605	7.100123
0	21.9	29.07582	622.1865	7.709529
0	21.91	29.12802	622.6134	7.746463
0	21.92	29.13858	623.0407	7.524861
0	21.93	29.17959	623.4683	7.432526
0	21.94	29.18891	623.8964	7.247858
0	21.95	29.19823	624.3245	7.044723
0	21.96	29.22371	624.753	7.026256
0	21.97	29.19823	625.1814	6.970856
0	21.98	29.15784	625.6093	7.044723
0	21.99	29.10503	626.0366	7.192458

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	22	29.11497	626.4635	7.247858
0	22.01	29.07334	626.8903	7.229391
0	22.02	29.0926	627.3168	6.933922
0	22.03	29.12056	627.7437	6.970856
0	22.04	29.08825	628.1706	6.804654
0	22.05	29.10938	628.5973	6.970856
0	22.06	29.10441	629.0243	6.564585
0	22.07	29.11248	629.4512	7.210925
0	22.08	29.12864	629.8783	7.41406
0	22.09	29.16468	630.3058	6.933922
0	22.1	29.15039	630.7334	7.100124
0	22.11	29.12491	631.1608	6.730787
0	22.12	29.1858	631.5884	6.472251
0	22.13	29.21936	632.0167	6.638453
0	22.14	29.25353	632.4455	6.786188
0	22.15	29.21625	632.8743	7.00779
0	22.16	29.20445	633.3027	6.860055
0	22.17	29.22309	633.7311	6.841588
0	22.18	29.27155	634.1601	7.192458
0	22.19	29.2554	634.5893	7.229392
0	22.2	29.27466	635.0185	7.266325
0	22.21	29.27404	635.4479	7.340193
0	22.22	29.26037	635.8771	7.35866
0	22.23	29.25167	636.3062	7.303259
0	22.24	29.24794	636.7352	6.989323
0	22.25	29.25726	637.1643	7.358659
0	22.26	29.24856	637.5933	7.155524
0	22.27	29.21812	638.0221	7.358659
0	22.28	29.21004	638.4505	6.823121
0	22.29	29.19699	638.8788	6.619985
0	22.3	29.18705	639.307	7.155524
0	22.31	29.20817	639.7352	7.081656
0	22.32	29.20569	640.1636	6.804654
0	22.33	29.21563	640.592	7.229391
0	22.34	29.23924	641.0207	7.210924
0	22.35	29.2902	641.4499	6.933922
0	22.36	29.32251	641.8797	6.730786
0	22.37	29.36725	642.3101	6.76772
0	22.38	29.34363	642.7407	6.933922
0	22.39	29.32748	643.1709	7.007789
0	22.4	29.32623	643.601	7.044723
0	22.41	29.36787	644.0315	7.044723
0	22.42	29.37781	644.4623	7.340192
0	22.43	29.35792	644.893	7.266324
0	22.44	29.35047	645.3235	7.617194
0	22.45	29.32437	645.7538	7.820329
0	22.46	29.34115	646.184	7.487927
0	22.47	29.36041	646.6145	7.487927
0	22.48	29.3629	647.0451	7.487927
0	22.49	29.35668	647.4757	7.377126

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	22.5	29.3368	647.9062	7.303258
0	22.51	29.35482	648.3366	7.081656
0	22.52	29.39583	648.7674	7.155524
0	22.53	29.3921	649.1985	7.395593
0	22.54	29.39583	649.6296	6.804654
0	22.55	29.39956	650.0608	6.619985
0	22.56	29.39086	650.4919	6.860054
0	22.57	29.43497	650.9233	6.896988
0	22.58	29.43373	651.355	6.970855
0	22.59	29.46915	651.787	6.970855
0	22.6	29.47971	652.2193	6.656919
0	22.61	29.45237	652.6514	6.749253
0	22.62	29.47474	653.0836	6.71232
0	22.63	29.49587	653.516	6.786187
0	22.64	29.51948	653.9488	7.026256
0	22.65	29.53439	654.3819	7.007789
0	22.66	29.51575	654.8149	6.952389
0	22.67	29.5375	655.248	6.933922
0	22.68	29.50519	655.6809	7.321726
0	22.69	29.46853	656.1134	7.284792
0	22.7	29.48966	656.5458	7.266325
0	22.71	29.51202	656.9784	7.266325
0	22.72	29.55179	657.4116	7.229391
0	22.73	29.5723	657.8452	7.266325
0	22.74	29.53129	658.2786	7.229391
0	22.75	29.517	658.7116	7.284792
0	22.76	29.52694	659.1446	7.284792
0	22.77	29.54247	659.5778	7.321726
0	22.78	29.53874	660.011	7.561794
0	22.79	29.54806	660.4443	7.506394
0	22.8	29.60337	660.8781	7.672596
0	22.81	29.64189	661.3126	7.524861
0	22.82	29.67296	661.7476	7.321726
0	22.83	29.69657	662.1829	7.118591
0	22.84	29.6916	662.6184	6.638453
0	22.85	29.6568	663.0537	6.435317
0	22.86	29.645	663.4885	6.453784
0	22.87	29.66364	663.9235	6.398383
0	22.88	29.65743	664.3585	6.287582
0	22.89	29.64811	664.7934	5.881312
0	22.9	29.59032	665.2278	5.936713
0	22.91	29.58224	665.6618	6.139848
0	22.92	29.55055	666.0954	6.195248
0	22.93	29.53377	666.5287	6.029047
0	22.94	29.57416	666.9621	6.065981
0	22.95	29.57727	667.3959	5.862845
0	22.96	29.63506	667.8301	6.01058
0	22.97	29.67172	668.2651	6.324516
0	22.98	29.65743	668.7001	6.139848
0	22.99	29.68849	669.1353	5.955179

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	23	29.70776	669.5709	6.213715
0	23.01	29.71273	670.0067	5.973646
0	23.02	29.77052	670.4429	6.213715
0	23.03	29.80718	670.8798	6.342983
0	23.04	29.85813	671.3173	6.195248
0	23.05	29.84943	671.7552	6.36145
0	23.06	29.88423	672.1932	6.342983
0	23.07	29.92089	672.6318	6.342983
0	23.08	29.9184	673.0706	6.804654
0	23.09	29.87428	673.5091	7.06319
0	23.1	29.87242	673.9472	7.11859
0	23.11	29.87988	674.3854	7.100123
0	23.12	29.85378	674.8235	7.06319
0	23.13	29.84011	675.2612	7.155524
0	23.14	29.80034	675.6986	7.192458
0	23.15	29.79164	676.1356	7.137057
0	23.16	29.79351	676.5725	7.210924
0	23.17	29.76679	677.0093	7.321726
0	23.18	29.76927	677.4459	7.081657
0	23.19	29.77549	677.8826	7.266325
0	23.2	29.73013	678.319	7.432527
0	23.21	29.73883	678.7551	7.229392
0	23.22	29.77176	679.1915	7.303259
0	23.23	29.76368	679.6281	7.247858
0	23.24	29.8165	680.065	7.377126
0	23.25	29.7991	680.5022	7.543328
0	23.26	29.79537	680.9392	7.635662
0	23.27	29.82209	681.3764	8.041932
0	23.28	29.81588	681.8137	7.949598
0	23.29	29.82582	682.2511	7.82033
0	23.3	29.8544	682.6888	7.76493
0	23.31	29.86807	683.1267	7.746463
0	23.32	29.87739	683.5649	7.76493
0	23.33	29.91529	684.0033	7.783397
0	23.34	29.91592	684.4421	7.672596
0	23.35	29.9097	684.8808	7.82033
0	23.36	29.91219	685.3195	7.727996
0	23.37	29.92399	685.7583	7.949598
0	23.38	29.96811	686.1975	7.709529
0	23.39	29.99794	686.6373	7.654129
0	23.4	29.98675	687.0772	7.598728
0	23.41	29.99732	687.517	7.487927
0	23.42	30.00415	687.9571	7.654129
0	23.43	29.9793	688.3969	7.543328
0	23.44	29.97867	688.8366	7.46946
0	23.45	29.96998	689.2763	7.044723
0	23.46	29.92648	689.7155	7.247858
0	23.47	29.96625	690.1547	7.247858
0	23.48	29.95382	690.5941	6.749254
0	23.49	29.92151	691.0332	6.453784

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	23.5	29.93891	691.4722	6.324516
0	23.51	29.94698	691.9113	6.398384
0	23.52	29.93704	692.3505	6.564585
0	23.53	29.98427	692.7899	6.472251
0	23.54	29.9911	693.2297	6.36145
0	23.55	30.01036	693.6697	6.287583
0	23.56	30.05137	694.1102	6.158315
0	23.57	30.09984	694.5513	6.158315
0	23.58	30.12594	694.993	5.95518
0	23.59	30.17627	695.4352	5.973646
0	23.6	30.19243	695.8779	6.139848
0	23.61	30.19988	696.3208	5.973646
0	23.62	30.18683	696.7636	5.65971
0	23.63	30.15328	697.2061	5.696644
0	23.64	30.17379	697.6485	5.65971
0	23.65	30.14582	698.0908	5.788978
0	23.66	30.1539	698.533	6.195249
0	23.67	30.15266	698.9753	5.95518
0	23.68	30.12283	699.4173	5.936713
0	23.69	30.06815	699.8587	6.30605
0	23.7	30.02466	700.2994	6.527652
0	23.71	30.02031	700.7397	6.583052
0	23.72	30.01099	701.1799	6.250649
0	23.73	30.01409	701.6201	5.881313
0	23.74	30.04081	702.0605	5.881313
0	23.75	30.052	702.5012	5.918246
0	23.76	30.01099	702.9417	6.084448
0	23.77	30.01347	703.3818	6.232182
0	23.78	30.05883	703.8224	6.287583
0	23.79	30.08804	704.2635	6.30605
0	23.8	30.08617	704.7047	6.30605
0	23.81	30.15266	705.1465	6.213716
0	23.82	30.12967	705.5886	6.416851
0	23.83	30.08369	706.0301	6.638453
0	23.84	30.09425	706.4714	6.527652
0	23.85	30.06753	706.9126	6.472251
0	23.86	30.0725	707.3536	6.379917
0	23.87	30.09114	707.7948	6.36145
0	23.88	30.07499	708.2361	6.36145
0	23.89	30.06939	708.6771	6.306049
0	23.9	30.04081	709.1179	6.269116
0	23.91	30.0377	709.5585	6.176782
0	23.92	30.0259	709.999	6.176782
0	23.93	29.98862	710.4391	6.41685
0	23.94	29.97805	710.8788	6.453784
0	23.95	29.98178	711.3185	6.379917
0	23.96	30.01782	711.7585	6.342983
0	23.97	30.03211	712.1989	6.213715
0	23.98	30.03398	712.6394	6.232182
0	23.99	30.0433	713.0799	6.342983

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	24	30.07747	713.5208	6.472251
0	24.01	30.11538	713.9622	6.490718
0	24.02	30.15825	714.4043	6.435317
0	24.03	30.11662	714.8463	6.472251
0	24.04	30.11351	715.288	6.804654
0	24.05	30.13215	715.7298	6.860054
0	24.06	30.13961	716.1718	7.007789
0	24.07	30.15887	716.6139	7.06319
0	24.08	30.19118	717.0565	7.192458
0	24.09	30.1334	717.4989	7.506394
0	24.1	30.14147	717.9409	7.783396
0	24.11	30.14707	718.383	7.506394
0	24.12	30.16011	718.8253	7.46946
0	24.13	30.14582	719.2675	7.266325
0	24.14	30.1334	719.7096	7.340192
0	24.15	30.11786	720.1514	7.41406
0	24.16	30.13091	720.5932	7.321725
0	24.17	30.13402	721.0352	7.303259
0	24.18	30.13837	721.4772	7.395593
0	24.19	30.1421	721.9192	7.487927
0	24.2	30.19429	722.3617	7.46946
0	24.21	30.18497	722.8045	7.229391
0	24.22	30.23654	723.2476	7.247858
0	24.23	30.29744	723.6915	7.284792
0	24.24	30.30614	724.1359	7.321725
0	24.25	30.31919	724.5805	6.989322
0	24.26	30.27631	725.0249	6.933922
0	24.27	30.25705	725.4688	6.878521
0	24.28	30.21728	725.9123	6.786187
0	24.29	30.22536	726.3555	6.269116
0	24.3	30.24151	726.7989	6.195248
0	24.31	30.24027	727.2425	6.324516
0	24.32	30.27445	727.6862	6.398384
0	24.33	30.25953	728.1301	6.509185
0	24.34	30.22722	728.5737	6.583052
0	24.35	30.19926	729.0168	6.398384
0	24.36	30.14644	729.4594	6.841588
0	24.37	30.16509	729.9017	7.007789
0	24.38	30.12594	730.3438	6.933922
0	24.39	30.09052	730.7854	6.619986
0	24.4	30.10108	731.2268	6.527652
0	24.41	30.07809	731.6681	6.453784
0	24.42	30.05324	732.1091	6.71232
0	24.43	30.06877	732.55	6.527652
0	24.44	30.06318	732.9909	6.638453
0	24.45	30.09239	733.4321	6.36145
0	24.46	30.12035	733.8736	6.398384
0	24.47	30.1452	734.3156	6.379917
0	24.48	30.15204	734.7578	6.527652
0	24.49	30.17503	735.2002	6.398384

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	24.5	30.17627	735.6427	6.71232
0	24.51	30.19118	736.0854	6.416851
0	24.52	30.18124	736.5282	5.936713
0	24.53	30.15017	736.9706	5.881312
0	24.54	30.14582	737.4128	5.807445
0	24.55	30.1421	737.8549	5.881312
0	24.56	30.15639	738.2971	5.825912
0	24.57	30.15577	738.7393	5.271906
0	24.58	30.08617	739.1811	5.345774
0	24.59	30.08431	739.6224	5.475042
0	24.6	30.08058	740.0636	6.139848
0	24.61	30.03833	740.5045	5.992113
0	24.62	30.07188	740.9453	6.195248
0	24.63	30.04268	741.3861	5.973646
0	24.64	30.0638	741.8269	6.435317
0	24.65	30.06505	742.2678	6.158314
0	24.66	30.08058	742.7089	6.250649
0	24.67	30.11848	743.1504	6.342983
0	24.68	30.17379	743.5925	6.269116
0	24.69	30.21355	744.0353	6.06598
0	24.7	30.20796	744.4784	6.139848
0	24.71	30.21231	744.9215	6.379916
0	24.72	30.25705	745.365	6.490717
0	24.73	30.25146	745.8087	6.804654
0	24.74	30.26264	746.2525	7.007789
0	24.75	30.24524	746.6962	7.284792
0	24.76	30.21542	747.1396	7.026256
0	24.77	30.20423	747.5826	7.192458
0	24.78	30.20237	748.0256	7.11859
0	24.79	30.18559	748.4685	7.155524
0	24.8	30.18124	748.9111	7.266325
0	24.81	30.14334	749.3535	7.026256
0	24.82	30.17938	749.7959	7.007789
0	24.83	30.12594	750.2381	6.841588
0	24.84	30.15328	750.6802	6.675386
0	24.85	30.16881	751.1225	6.287583
0	24.86	30.16509	751.565	6.490718
0	24.87	30.13899	752.0072	6.767721
0	24.88	30.16011	752.4494	6.509185
0	24.89	30.14582	752.8917	6.896988
0	24.9	30.16322	753.3339	7.432527
0	24.91	30.15079	753.7762	7.672596
0	24.92	30.13775	754.2183	7.377127
0	24.93	30.17254	754.6606	7.432527
0	24.94	30.19926	755.1033	7.450994
0	24.95	30.1887	755.5462	7.395593
0	24.96	30.20175	755.9891	7.173991
0	24.97	30.21542	756.4321	7.709529
0	24.98	30.2092	756.8752	7.709529
0	24.99	30.20175	757.3182	7.912664

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	25	30.22225	757.7614	7.838797
0	25.01	30.25146	758.2048	7.691062
0	25.02	30.23157	758.6484	7.487927
0	25.03	30.24151	759.0918	7.82033
0	25.04	30.21231	759.5352	7.746463
0	25.05	30.13526	759.9777	8.134266
0	25.06	30.12967	760.4197	8.263534
0	25.07	30.13277	760.8616	8.411269
0	25.08	30.15514	761.3037	8.540537
0	25.09	30.16757	761.7461	8.614404
0	25.1	30.18248	762.1886	8.041932
0	25.11	30.19305	762.6314	7.672595
0	25.12	30.16074	763.074	7.617195
0	25.13	30.12532	763.5161	7.875731
0	25.14	30.15887	763.9582	7.875731
0	25.15	30.17938	764.4006	7.543328
0	25.16	30.19367	764.8434	7.783397
0	25.17	30.22784	765.2865	8.078866
0	25.18	30.22536	765.7298	7.617195
0	25.19	30.23282	766.1731	7.875731
0	25.2	30.21542	766.6164	8.134267
0	25.21	30.22474	767.0597	8.134267
0	25.22	30.22225	767.5029	7.986532
0	25.23	30.22412	767.9462	7.931132
0	25.24	30.20423	768.3894	7.654129
0	25.25	30.20485	768.8324	8.060399
0	25.26	30.21666	769.2754	7.949598
0	25.27	30.18746	769.7184	8.318935
0	25.28	30.16446	770.161	8.337403
0	25.29	30.24276	770.604	8.023466
0	25.3	30.24649	771.0476	7.838798
0	25.31	30.21045	771.4909	8.152734
0	25.32	30.2179	771.9341	8.318936
0	25.33	30.22101	772.3773	8.226602
0	25.34	30.19926	772.8204	8.004999
0	25.35	30.21977	773.2634	8.1158
0	25.36	30.22101	773.7067	8.318936
0	25.37	30.24338	774.1501	8.134267
0	25.38	30.2353	774.5936	7.654129
0	25.39	30.16074	775.0365	7.672596
0	25.4	30.14831	775.4787	7.377127
0	25.41	30.0812	775.9204	7.340193
0	25.42	30.04081	776.3613	7.377127
0	25.43	30.1278	776.8026	7.561795
0	25.44	30.14582	777.2446	7.672596
0	25.45	30.16633	777.6869	7.986532
0	25.46	30.1713	778.1293	7.727996
0	25.47	30.14334	778.5716	7.857264
0	25.48	30.16322	779.0139	7.469461
0	25.49	30.18808	779.4565	7.321726

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	25.5	30.20423	779.8993	7.358659
0	25.51	30.17813	780.3421	7.746463
0	25.52	30.21169	780.785	7.506394
0	25.53	30.21977	781.2282	7.377126
0	25.54	30.19491	781.6712	7.321725
0	25.55	30.17441	782.1139	7.303259
0	25.56	30.19615	782.5566	7.303259
0	25.57	30.19553	782.9995	7.11859
0	25.58	30.1713	783.4422	6.989322
0	25.59	30.1626	783.8846	7.081657
0	25.6	30.10481	784.3266	7.321725
0	25.61	30.09176	784.768	7.358659
0	25.62	30.13464	785.2097	6.933922
0	25.63	30.17565	785.652	6.896988
0	25.64	30.18621	786.0946	7.247858
0	25.65	30.16571	786.5372	7.303259
0	25.66	30.17503	786.9797	6.896988
0	25.67	30.17813	787.4223	6.823121
0	25.68	30.2092	787.8651	6.583052
0	25.69	30.19802	788.3081	6.601519
0	25.7	30.19429	788.751	6.453784
0	25.71	30.24338	789.1942	6.324516
0	25.72	30.26513	789.638	6.416851
0	25.73	30.27383	790.0819	6.435318
0	25.74	30.24027	790.5257	6.195249
0	25.75	30.20299	790.9689	6.01058
0	25.76	30.22598	791.4121	6.269116
0	25.77	30.15825	791.8549	6.398384
0	25.78	30.1452	792.2971	6.453785
0	25.79	30.10978	792.739	6.546119
0	25.8	30.14272	793.1808	6.693853
0	25.81	30.16695	793.6231	6.416851
0	25.82	30.17006	794.0656	6.693853
0	25.83	30.17316	794.5081	6.933922
0	25.84	30.16571	794.9506	6.952389
0	25.85	30.2092	795.3933	6.342983
0	25.86	30.1974	795.8363	6.176782
0	25.87	30.20485	796.2793	6.30605
0	25.88	30.18746	796.7221	6.546118
0	25.89	30.19056	797.1649	6.693853
0	25.9	30.21169	797.6079	6.786187
0	25.91	30.20175	798.0509	6.896988
0	25.92	30.2266	798.494	6.933922
0	25.93	30.30117	798.9379	6.730787
0	25.94	30.31608	799.3824	6.878521
0	25.95	30.30924	799.827	7.081656
0	25.96	30.24586	800.2711	7.210924
0	25.97	30.18808	800.7143	6.804654
0	25.98	30.16881	801.1569	6.36145
0	25.99	30.16322	801.5993	6.453784

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	26	30.17813	802.0418	6.379916
0	26.01	30.19926	802.4846	6.342983
0	26.02	30.21728	802.9276	6.36145
0	26.03	30.19305	803.3707	6.084447
0	26.04	30.21604	803.8137	5.918246
0	26.05	30.26078	804.2571	5.862845
0	26.06	30.24462	804.7009	6.047513
0	26.07	30.21728	805.1442	6.195248
0	26.08	30.21169	805.5874	6.342983
0	26.09	30.22349	806.0306	5.881312
0	26.1	30.25394	806.4741	5.918246
0	26.11	30.22225	806.9176	6.01058
0	26.12	30.20734	807.3607	5.95518
0	26.13	30.16571	807.8035	6.029047
0	26.14	30.1191	808.2455	5.973646
0	26.15	30.15328	808.6875	5.862845
0	26.16	30.18559	809.13	5.844378
0	26.17	30.17441	809.5727	5.936713
0	26.18	30.16571	810.0152	6.158315
0	26.19	30.20423	810.4579	6.306049
0	26.2	30.21728	810.901	6.084447
0	26.21	30.21604	811.3441	6.232182
0	26.22	30.19491	811.7872	6.121381
0	26.23	30.20548	812.2301	6.250649
0	26.24	30.17876	812.6729	6.546118
0	26.25	30.1626	813.1154	6.860055
0	26.26	30.12221	813.5575	6.933922
0	26.27	30.1073	813.9992	7.026256
0	26.28	30.10606	814.4408	7.321726
0	26.29	30.10233	814.8823	7.173991
0	26.3	30.11413	815.3239	7.247858
0	26.31	30.10046	815.7654	6.915455
0	26.32	30.0899	816.2068	6.564585
0	26.33	30.09984	816.6482	6.546118
0	26.34	30.1713	817.0902	6.804654
0	26.35	30.15887	817.5326	6.71232
0	26.36	30.18124	817.9751	6.823121
0	26.37	30.22784	818.4181	6.896988
0	26.38	30.24959	818.8616	6.952389
0	26.39	30.25084	819.3053	6.786187
0	26.4	30.2732	819.7491	6.749254
0	26.41	30.29557	820.1933	7.081657
0	26.42	30.2906	820.6376	6.878521
0	26.43	30.27818	821.0818	7.026256
0	26.44	30.29309	821.526	7.026256
0	26.45	30.2993	821.9703	6.76772
0	26.46	30.28501	822.4146	6.41685
0	26.47	30.23965	822.8585	6.546118
0	26.48	30.22101	823.3018	6.583052
0	26.49	30.22536	823.7451	6.324516

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	26.5	30.20361	824.1883	6.306049
0	26.51	30.19305	824.6312	6.435317
0	26.52	30.19802	825.074	6.823121
0	26.53	30.18248	825.5168	6.915455
0	26.54	30.13899	825.9592	7.173991
0	26.55	30.15763	826.4014	6.860055
0	26.56	30.23157	826.8442	7.044723
0	26.57	30.25643	827.2878	6.970856
0	26.58	30.26513	827.7316	6.878522
0	26.59	30.24214	828.1753	7.081657
0	26.6	30.2266	828.6188	7.284792
0	26.61	30.23903	829.0622	7.173991
0	26.62	30.2732	829.5059	6.823121
0	26.63	30.31173	829.9502	6.970856
0	26.64	30.32726	830.3949	7.007789
0	26.65	30.36641	830.84	7.044723
0	26.66	30.34031	831.2852	7.155524
0	26.67	30.3341	831.7301	7.432527
0	26.68	30.31421	832.1749	7.284792
0	26.69	30.26513	832.6191	7.266325
0	26.7	30.24897	833.0629	7.340193
0	26.71	30.2005	833.5062	7.487927
0	26.72	30.18621	833.949	7.432527
0	26.73	30.19678	834.3918	7.155524
0	26.74	30.15577	834.8344	7.266325
0	26.75	30.15514	835.2767	7.432527
0	26.76	30.19056	835.7192	7.506394
0	26.77	30.19615	836.1621	7.46946
0	26.78	30.18186	836.6049	7.450993
0	26.79	30.15825	837.0473	7.561795
0	26.8	30.1365	837.4895	7.303259
0	26.81	30.13837	837.9315	7.192458
0	26.82	30.20485	838.374	7.450993
0	26.83	30.17938	838.8169	7.432527
0	26.84	30.16881	839.2594	7.450993
0	26.85	30.19678	839.7021	7.247858
0	26.86	30.21977	840.1451	7.100124
0	26.87	30.21852	840.5884	6.860055
0	26.88	30.16074	841.0311	6.71232
0	26.89	30.15142	841.4734	6.619986
0	26.9	30.16819	841.9158	6.287583
0	26.91	30.15017	842.3581	6.065981
0	26.92	30.14023	842.8002	5.918246
0	26.93	30.15452	843.2424	5.788978
0	26.94	30.16944	843.6848	6.047514
0	26.95	30.22039	844.1276	6.01058
0	26.96	30.25084	844.5711	5.419641
0	26.97	30.18	845.0142	5.364241
0	26.98	30.13402	845.4566	5.30884
0	26.99	30.15452	845.8987	5.30884

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	27	30.17254	846.3411	5.25344
0	27.01	30.18373	846.7837	5.198039
0	27.02	30.19864	847.2265	5.179572
0	27.03	30.20361	847.6694	5.124172
0	27.04	30.18683	848.1123	5.216506
0	27.05	30.1887	848.555	5.142639
0	27.06	30.19678	848.9979	5.234973
0	27.07	30.19491	849.4407	5.438108
0	27.08	30.15017	849.8833	5.60431
0	27.09	30.16881	850.3256	5.641243
0	27.1	30.18932	850.7682	5.548909
0	27.11	30.16384	851.2108	5.973647
0	27.12	30.16011	851.6532	6.084448
0	27.13	30.15825	852.0955	5.844379
0	27.14	30.14707	852.5378	6.065981
0	27.15	30.17254	852.9801	5.918246
0	27.16	30.20361	853.4229	6.121381
0	27.17	30.29122	853.8665	6.398384
0	27.18	30.25953	854.3106	6.342983
0	27.19	30.21169	854.754	6.379917
0	27.2	30.2005	855.197	6.527652
0	27.21	30.19305	855.6399	6.656919
0	27.22	30.19429	856.0828	6.71232
0	27.23	30.15204	856.5253	6.490718
0	27.24	30.16633	856.9676	6.509185
0	27.25	30.19678	857.4103	6.804654
0	27.26	30.24338	857.8535	6.730787
0	27.27	30.21604	858.2969	6.786187
0	27.28	30.26699	858.7404	6.656919
0	27.29	30.27569	859.1844	6.619986
0	27.3	30.26264	859.6284	6.324516
0	27.31	30.23157	860.072	6.398384
0	27.32	30.18311	860.515	6.213715
0	27.33	30.14769	860.9575	6.379917
0	27.34	30.1365	861.3995	6.638452
0	27.35	30.15079	861.8416	6.693853
0	27.36	30.17441	862.284	6.76772
0	27.37	30.18559	862.7267	6.619986
0	27.38	30.17751	863.1693	6.952389
0	27.39	30.19429	863.6121	6.970856
0	27.4	30.17006	864.0547	7.137057
0	27.41	30.14955	864.4971	7.007789
0	27.42	30.14893	864.9393	6.767721
0	27.43	30.13464	865.3813	6.804654
0	27.44	30.17627	865.8236	7.081657
0	27.45	30.18124	866.2662	6.989323
0	27.46	30.19056	866.709	6.804654
0	27.47	30.18062	867.1517	6.804654
0	27.48	30.16695	867.5942	6.860055
0	27.49	30.20237	868.037	6.786187

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	27.5	30.19243	868.4798	6.860055
0	27.51	30.17938	868.9226	7.081657
0	27.52	30.15825	869.365	7.044723
0	27.53	30.12905	869.8072	7.00779
0	27.54	30.17006	870.2493	6.823121
0	27.55	30.19615	870.692	6.915455
0	27.56	30.20982	871.135	6.730787
0	27.57	30.15577	871.5777	6.786187
0	27.58	30.16446	872.02	6.675386
0	27.59	30.15949	872.4624	6.213715
0	27.6	30.13402	872.9046	6.139848
0	27.61	30.12097	873.3464	6.047514
0	27.62	30.16509	873.7885	6.287583
0	27.63	30.13215	874.2307	6.527652
0	27.64	30.12283	874.6726	6.786187
0	27.65	30.07996	875.1141	6.564585
0	27.66	30.06256	875.5551	6.564585
0	27.67	30.10606	875.9964	6.527652
0	27.68	30.13961	876.4382	6.71232
0	27.69	30.12594	876.8801	6.71232
0	27.7	30.14707	877.3221	6.638453
0	27.71	30.15639	877.7643	6.730787
0	27.72	30.16074	878.2067	6.841588
0	27.73	30.19491	878.6493	7.081657
0	27.74	30.16011	879.0919	6.989323
0	27.75	30.19988	879.5345	7.00779
0	27.76	30.15514	879.9771	6.860055
0	27.77	30.18373	880.4196	6.730787
0	27.78	30.19864	880.8624	6.546119
0	27.79	30.21666	881.3054	6.638453
0	27.8	30.18808	881.7484	6.970856
0	27.81	30.17316	882.1911	7.044723
0	27.82	30.16011	882.6335	6.860055
0	27.83	30.11413	883.0755	6.36145
0	27.84	30.10606	883.5171	6.176782
0	27.85	30.08058	883.9585	5.733578
0	27.86	30.10233	884.3998	5.844379
0	27.87	30.13277	884.8416	6.102915
0	27.88	30.1334	885.2835	6.084448
0	27.89	30.12842	885.7254	6.065981
0	27.9	30.14707	886.1675	5.862846
0	27.91	30.15452	886.6097	6.102915
0	27.92	30.1713	887.0521	5.825912
0	27.93	30.16384	887.4945	6.029047
0	27.94	30.12221	887.9366	5.95518
0	27.95	30.12035	888.3784	6.287583
0	27.96	30.14023	888.8203	6.287583
0	27.97	30.14334	889.2624	6.379917
0	27.98	30.13961	889.7045	6.435317
0	27.99	30.18373	890.1468	6.601519

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	28	30.17316	890.5894	6.546118
0	28.01	30.13961	891.0317	6.472251
0	28.02	30.09798	891.4735	6.564585
0	28.03	30.06691	891.9147	6.730787
0	28.04	30.04516	892.3555	7.210925
0	28.05	30.06567	892.7963	7.266325
0	28.06	30.04765	893.2372	7.580261
0	28.07	30.0725	893.678	7.395593
0	28.08	30.12283	894.1195	7.081656
0	28.09	30.14085	894.5614	6.749253
0	28.1	30.18311	895.0038	6.71232
0	28.11	30.16881	895.4464	6.786187
0	28.12	30.18062	895.8889	7.11859
0	28.13	30.17751	896.3316	7.321726
0	28.14	30.15887	896.774	6.915455
0	28.15	30.1365	897.2162	6.878522
0	28.16	30.16074	897.6584	6.730787
0	28.17	30.17751	898.1008	6.693853
0	28.18	30.16633	898.5434	6.638453
0	28.19	30.17254	898.9859	6.970856
0	28.2	30.13215	899.4281	6.878522
0	28.21	30.10481	899.8698	6.804654
0	28.22	30.09984	900.3113	6.583052
0	28.23	30.10108	900.7528	6.638453
0	28.24	30.09922	901.1943	6.730787
0	28.25	30.09487	901.6357	6.453784
0	28.26	30.10233	902.0771	6.416851
0	28.27	30.12283	902.5188	6.158315
0	28.28	30.10419	902.9605	6.453784
0	28.29	30.11475	903.4021	6.527652
0	28.3	30.16011	903.8441	6.804654
0	28.31	30.16944	904.2865	6.65692
0	28.32	30.17627	904.729	6.601519
0	28.33	30.16819	905.1716	6.102914
0	28.34	30.1918	905.6142	5.918246
0	28.35	30.18746	906.057	6.158315
0	28.36	30.18746	906.4997	6.01058
0	28.37	30.15577	906.9422	6.047514
0	28.38	30.19553	907.3848	6.213716
0	28.39	30.20796	907.8278	6.36145
0	28.4	30.2148	908.2709	6.065981
0	28.41	30.19678	908.7139	5.899779
0	28.42	30.24151	909.1571	5.973646
0	28.43	30.19118	909.6003	5.936713
0	28.44	30.17938	910.043	6.065981
0	28.45	30.1421	910.4854	6.01058
0	28.46	30.12594	910.9273	6.102914
0	28.47	30.11041	911.3691	6.250649
0	28.48	30.17751	911.8112	6.30605
0	28.49	30.1887	912.2539	6.30605

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	28.5	30.12221	912.6961	6.213715
0	28.51	30.12408	913.1379	6.36145
0	28.52	30.07747	913.5794	6.453784
0	28.53	30.06567	914.0205	6.472251
0	28.54	30.01223	914.461	6.601519
0	28.55	30.03646	914.9014	6.860055
0	28.56	30.07374	915.3422	6.804654
0	28.57	30.06877	915.7832	7.100124
0	28.58	30.11103	916.2246	6.878521
0	28.59	30.1539	916.6665	6.601519
0	28.6	30.17689	917.1089	6.952389
0	28.61	30.18435	917.5516	7.229391
0	28.62	30.16571	917.9941	7.561794
0	28.63	30.14769	918.4364	7.838797
0	28.64	30.09425	918.8782	7.857264
0	28.65	30.08058	919.3195	7.87573
0	28.66	30.07374	919.7606	7.949598
0	28.67	30.0986	920.2019	7.894197
0	28.68	30.07561	920.6432	7.764929
0	28.69	30.03149	921.084	7.949598
0	28.7	30.02217	921.5244	7.912664
0	28.71	30.03336	921.9648	8.060399
0	28.72	30.05137	922.4054	7.968065
0	28.73	30.04454	922.8461	8.004998
0	28.74	30.04392	923.2867	7.986532
0	28.75	30.05883	923.7275	7.801863
0	28.76	30.0377	924.1682	7.543327
0	28.77	30.05262	924.6089	7.41406
0	28.78	30.04703	925.0496	7.284792
0	28.79	30.09984	925.4907	7.654129
0	28.8	30.10978	925.9322	7.580261
0	28.81	30.13029	926.374	7.11859
0	28.82	30.15452	926.8161	7.100124
0	28.83	30.14893	927.2583	6.786187
0	28.84	30.08244	927.7	6.527652
0	28.85	30.05324	928.141	6.564585
0	28.86	30.05262	928.5817	6.250649
0	28.87	30.01409	929.0222	5.95518
0	28.88	30.0172	929.4625	5.992113
0	28.89	30.05262	929.903	5.973647
0	28.9	30.052	930.3437	5.95518
0	28.91	30.06194	930.7846	5.770511
0	28.92	30.13837	931.2261	5.825912
0	28.93	30.11289	931.6679	5.770511
0	28.94	30.08741	932.1094	5.807445
0	28.95	30.0346	932.5503	5.881312
0	28.96	30.02714	932.9907	5.973647
0	28.97	30.08804	933.4316	5.973647
0	28.98	30.07623	933.8728	6.232182
0	28.99	30.13277	934.3143	5.992114

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	29	30.09114	934.7559	5.622777
0	29.01	30.09487	935.1973	5.807445
0	29.02	30.12905	935.6389	5.862846
0	29.03	30.17627	936.0812	5.770511
0	29.04	30.17441	936.5237	5.918246
0	29.05	30.15142	936.9661	5.992113
0	29.06	30.09674	937.408	5.918246
0	29.07	30.06691	937.8492	6.121381
0	29.08	30.04019	938.2899	6.601519
0	29.09	30.0812	938.7308	6.490718
0	29.1	30.12097	939.1723	6.546119
0	29.11	30.15949	939.6144	6.287583
0	29.12	30.13526	940.0565	6.509185
0	29.13	30.14831	940.4986	6.398384
0	29.14	30.14147	940.9407	6.213715
0	29.15	30.12035	941.3827	6.176782
0	29.16	30.09736	941.8243	6.102914
0	29.17	30.06877	942.2655	6.546118
0	29.18	30.03895	942.7063	6.453784
0	29.19	29.98986	943.1465	6.41685
0	29.2	29.96376	943.5861	6.490718
0	29.21	29.98178	944.0257	6.435317
0	29.22	30.01658	944.4657	6.509185
0	29.23	30.08804	944.9065	6.195248
0	29.24	30.12345	945.348	6.250649
0	29.25	30.1334	945.7899	6.472251
0	29.26	30.15266	946.232	6.527651
0	29.27	30.11413	946.674	6.41685
0	29.28	30.09674	947.1155	6.472251
0	29.29	30.09487	947.5569	6.06598
0	29.3	30.07002	947.9981	6.306049
0	29.31	30.11475	948.4395	6.250649
0	29.32	30.10357	948.8811	6.158315
0	29.33	30.08617	949.3225	6.06598
0	29.34	30.07437	949.7637	6.047514
0	29.35	30.10419	950.205	6.232182
0	29.36	30.08617	950.6464	6.139848
0	29.37	30.06629	951.0875	6.232182
0	29.38	30.06007	951.5284	6.065981
0	29.39	30.07437	951.9694	6.379917
0	29.4	30.05137	952.4103	6.546118
0	29.41	30.08058	952.8513	6.970856
0	29.42	30.09984	953.2926	7.044723
0	29.43	30.07188	953.7339	6.841588
0	29.44	30.07996	954.175	6.970855
0	29.45	30.07437	954.6161	6.71232
0	29.46	30.11289	955.0575	6.453784
0	29.47	30.1713	955.4996	6.139848
0	29.48	30.13837	955.9418	6.472251
0	29.49	30.12159	956.3838	6.435317

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	29.5	30.13153	956.8256	6.435317
0	29.51	30.08369	957.2672	6.139848
0	29.52	30.0551	957.7082	6.102914
0	29.53	30.07064	958.1491	6.379917
0	29.54	30.04889	958.59	6.398383
0	29.55	30.02217	959.0305	6.379917
0	29.56	30.0638	959.4712	6.675386
0	29.57	30.11289	959.9125	6.989322
0	29.58	30.08804	960.3539	7.026256
0	29.59	30.0725	960.7951	6.76772
0	29.6	30.05883	961.2361	6.398384
0	29.61	30.0725	961.677	6.195248
0	29.62	30.14707	962.1186	5.715111
0	29.63	30.14458	962.5608	5.899779
0	29.64	30.17316	963.0031	6.232182
0	29.65	30.18311	963.4457	6.139848
0	29.66	30.15328	963.8882	6.490718
0	29.67	30.15266	964.3304	6.509185
0	29.68	30.09425	964.7722	6.472251
0	29.69	30.1073	965.2137	6.342984
0	29.7	30.1073	965.6553	6.583052
0	29.71	30.03957	966.0964	6.472251
0	29.72	30.03087	966.5369	6.490718
0	29.73	30.07312	966.9776	6.546119
0	29.74	30.05386	967.4186	6.416851
0	29.75	30.04205	967.8593	6.342983
0	29.76	30.02652	968.2998	6.324517
0	29.77	29.99359	968.7399	6.324517
0	29.78	30.00042	969.1799	6.084447
0	29.79	29.96563	969.6196	6.324517
0	29.8	30.01161	970.0595	6.601519
0	29.81	30.01409	970.4997	6.878522
0	29.82	30.01161	970.9399	6.749254
0	29.83	30.0433	971.3803	7.026256
0	29.84	30.03336	971.8208	6.970856
0	29.85	30.02776	972.2613	6.933922
0	29.86	30.05075	972.7018	7.100123
0	29.87	30.03522	973.1425	6.970855
0	29.88	30.01534	973.5828	6.970855
0	29.89	30.03149	974.0232	7.173991
0	29.9	30.05883	974.4638	7.137057
0	29.91	30.13899	974.9053	6.71232
0	29.92	30.13091	975.3473	6.749253
0	29.93	30.13215	975.7892	7.007789
0	29.94	30.11289	976.231	6.952389
0	29.95	30.07685	976.6724	6.896988
0	29.96	30.05386	977.1134	6.896988
0	29.97	30.02093	977.5539	7.137057
0	29.98	30.0259	977.9942	7.044723
0	29.99	30.01844	978.4346	6.896988

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	30	29.99918	978.8747	6.546118
0	30.01	30.00788	979.3148	6.158315
0	30.02	30.03584	979.7551	5.992113
0	30.03	30.06007	980.1958	6.121381
0	30.04	30.05075	980.6366	5.881312
0	30.05	29.99918	981.077	5.844379
0	30.06	29.98986	981.5169	5.511975
0	30.07	29.95879	981.9565	5.548909
0	30.08	29.97743	982.396	5.548909
0	30.09	29.98737	982.8358	5.641243
0	30.1	30.01285	983.2758	5.475042
0	30.11	30.02466	983.716	5.622777
0	30.12	30.06256	984.1567	5.641243
0	30.13	30.02217	984.5973	5.807445
0	30.14	30.04392	985.0378	5.678177
0	30.15	30.06194	985.4786	5.65971
0	30.16	30.06753	985.9195	5.585843
0	30.17	30.07996	986.3606	5.696644
0	30.18	30.11289	986.802	5.511976
0	30.19	30.11103	987.2437	5.271907
0	30.2	30.11289	987.6853	5.567376
0	30.21	30.1278	988.1271	5.881312
0	30.22	30.06318	988.5685	5.992113
0	30.23	30.05883	989.0094	6.102914
0	30.24	30.05324	989.4502	6.065981
0	30.25	30.06939	989.8911	6.195249
0	30.26	30.08617	990.3322	6.398384
0	30.27	30.052	990.7732	6.749254
0	30.28	29.9998	991.2136	6.490718
0	30.29	29.9793	991.6535	6.564586
0	30.3	29.99669	992.0933	6.527652
0	30.31	30.05324	992.5337	6.601519
0	30.32	30.08741	992.9747	6.527652
0	30.33	30.11041	993.4161	6.416851
0	30.34	30.08555	993.8576	6.398384
0	30.35	30.02341	994.2984	6.379917
0	30.36	30.04454	994.7389	6.675387
0	30.37	30.07747	995.1798	6.71232
0	30.38	30.05635	995.6207	6.693853
0	30.39	30.08866	996.0618	6.823121
0	30.4	30.11662	996.5033	7.00779
0	30.41	30.13837	996.9452	6.860055
0	30.42	30.09425	997.3869	6.65692
0	30.43	30.07561	997.8281	6.860055
0	30.44	30.03646	998.269	6.804654
0	30.45	30.07374	998.7098	6.546119
0	30.46	30.03336	999.1505	6.472251
0	30.47	30.02528	999.591	6.546119
0	30.48	29.97867	1000.031	6.675387
0	30.49	29.98302	1000.471	6.804654

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	30.5	29.99607	1000.911	6.601519
0	30.51	30.00974	1001.351	6.342984
0	30.52	29.98986	1001.791	6.269116
0	30.53	29.95506	1002.23	6.213716
0	30.54	30.00291	1002.67	6.342984
0	30.55	29.96687	1003.11	6.232183
0	30.56	29.99234	1003.549	6.269116
0	30.57	30.03522	1003.99	5.862846
0	30.58	30.08928	1004.43	6.195249
0	30.59	30.10046	1004.872	6.084448
0	30.6	30.13837	1005.314	5.825912
0	30.61	30.09984	1005.755	6.01058
0	30.62	30.10916	1006.197	5.992113
0	30.63	30.11973	1006.639	6.158315
0	30.64	30.13464	1007.08	6.490718
0	30.65	30.15204	1007.523	6.490718
0	30.66	30.22412	1007.965	7.118591
0	30.67	30.20113	1008.408	7.266325
0	30.68	30.15452	1008.851	6.823121
0	30.69	30.16011	1009.293	6.71232
0	30.7	30.19243	1009.736	6.970856
0	30.71	30.11786	1010.178	6.989323
0	30.72	30.10171	1010.62	7.173991
0	30.73	30.06007	1011.061	7.450994
0	30.74	30.04827	1011.502	7.395593
0	30.75	30.09176	1011.943	7.432527
0	30.76	30.12532	1012.384	7.894198
0	30.77	30.14272	1012.826	8.078866
0	30.78	30.11973	1013.268	8.263535
0	30.79	30.08866	1013.71	8.282002
0	30.8	30.08493	1014.151	8.337402
0	30.81	30.08182	1014.592	8.448203
0	30.82	30.0725	1015.033	8.282002
0	30.83	30.04081	1015.474	8.337402
0	30.84	30.05075	1015.915	8.134267
0	30.85	30.05262	1016.356	7.543328
0	30.86	30.07623	1016.797	7.598729
0	30.87	30.14893	1017.238	7.321726
0	30.88	30.18	1017.681	7.487928
0	30.89	30.15763	1018.123	7.617196
0	30.9	30.1452	1018.565	7.247859
0	30.91	30.14085	1019.008	6.933922
0	30.92	30.11041	1019.449	7.06319
0	30.93	30.11786	1019.891	7.192458
0	30.94	30.09798	1020.333	7.266326
0	30.95	30.03025	1020.774	7.247859
0	30.96	30.02838	1021.214	7.377127
0	30.97	30.02466	1021.654	7.100124
0	30.98	30.01347	1022.095	7.173992
0	30.99	30.00974	1022.535	7.137058

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	31	29.97805	1022.975	7.044724
0	31.01	29.94761	1023.414	7.081657
0	31.02	29.93953	1023.853	6.860055
0	31.03	29.94761	1024.293	6.749254
0	31.04	29.96998	1024.732	6.860055
0	31.05	29.99918	1025.172	6.841588
0	31.06	30.05075	1025.612	6.933922
0	31.07	30.03895	1026.053	6.970856
0	31.08	30.02155	1026.493	6.583053
0	31.09	29.98054	1026.933	6.527652
0	31.1	29.98551	1027.373	6.749254
0	31.11	29.98986	1027.813	7.173992
0	31.12	30.00601	1028.253	7.266326
0	31.13	29.97681	1028.693	7.229392
0	31.14	29.98427	1029.132	7.395594
0	31.15	30.02776	1029.572	7.266325
0	31.16	30.00353	1030.013	7.118591
0	31.17	29.96376	1030.452	6.804655
0	31.18	29.97619	1030.892	6.878522
0	31.19	29.98675	1031.332	6.749254
0	31.2	29.95444	1031.771	6.638453
0	31.21	29.96128	1032.211	6.546119
0	31.22	29.99794	1032.65	6.693853
0	31.23	30.0259	1033.091	6.952389
0	31.24	30.03273	1033.531	6.933922
0	31.25	30.06691	1033.972	6.619986
0	31.26	30.1278	1034.413	6.527652
0	31.27	30.14396	1034.855	6.379917
0	31.28	30.17876	1035.297	6.047514
0	31.29	30.20299	1035.74	6.30605
0	31.3	30.20175	1036.183	6.158315
0	31.31	30.17938	1036.626	5.936713
0	31.32	30.15639	1037.069	5.419641
0	31.33	30.14085	1037.511	5.881312
0	31.34	30.12718	1037.953	5.678177
0	31.35	30.1365	1038.395	5.475042
0	31.36	30.15949	1038.837	5.401175
0	31.37	30.13961	1039.279	5.419641
0	31.38	30.09736	1039.721	5.752044
0	31.39	30.07437	1040.162	5.511975
0	31.4	30.0607	1040.603	5.364241
0	31.41	30.05821	1041.044	5.65971
0	31.42	30.03584	1041.484	5.419641
0	31.43	30.02279	1041.925	5.290373
0	31.44	30.06256	1042.366	5.438108
0	31.45	30.04578	1042.806	5.419641
0	31.46	30.05697	1043.247	5.419641
0	31.47	30.04951	1043.688	5.585843
0	31.48	30.04578	1044.129	5.807445
0	31.49	30.02403	1044.569	6.029047

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	31.5	30.05262	1045.01	5.770511
0	31.51	30.04578	1045.45	5.733578
0	31.52	30.05821	1045.891	6.06598
0	31.53	30.07188	1046.332	6.139848
0	31.54	30.05697	1046.773	5.641243
0	31.55	30.06877	1047.214	5.918246
0	31.56	30.08804	1047.655	6.158315
0	31.57	30.13153	1048.097	6.047514
0	31.58	30.13526	1048.539	6.121381
0	31.59	30.11351	1048.98	6.139848
0	31.6	30.11475	1049.422	6.158315
0	31.61	30.12097	1049.864	6.30605
0	31.62	30.12967	1050.306	6.176782
0	31.63	30.14085	1050.748	6.416851
0	31.64	30.10108	1051.189	6.675387
0	31.65	30.11413	1051.631	6.527652
0	31.66	30.11413	1052.073	6.509185
0	31.67	30.06815	1052.514	6.860055
0	31.68	30.03273	1052.955	6.767721
0	31.69	30.02279	1053.395	6.564586
0	31.7	30.01161	1053.835	6.786188
0	31.71	29.99297	1054.276	6.933922
0	31.72	30.03025	1054.716	7.173991
0	31.73	30.03336	1055.156	6.860055
0	31.74	30.01223	1055.596	6.989323
0	31.75	30.01782	1056.037	7.044724
0	31.76	30.01534	1056.477	6.915456
0	31.77	29.98054	1056.917	6.619986
0	31.78	30.02838	1057.357	6.841588
0	31.79	29.99732	1057.797	6.970856
0	31.8	29.97619	1058.237	6.619986
0	31.81	29.98116	1058.677	6.767721
0	31.82	29.96998	1059.116	6.638453
0	31.83	29.9737	1059.556	6.583052
0	31.84	30.00601	1059.996	6.71232
0	31.85	30.01223	1060.436	6.675386
0	31.86	29.99794	1060.876	6.490718
0	31.87	29.98489	1061.316	6.435318
0	31.88	29.988	1061.756	6.398384
0	31.89	29.94574	1062.195	6.287583
0	31.9	29.97557	1062.635	6.656919
0	31.91	29.9998	1063.074	6.472251
0	31.92	30.00974	1063.514	6.583052
0	31.93	29.9998	1063.955	6.472251
0	31.94	29.99297	1064.394	6.601519
0	31.95	30.00167	1064.834	6.786187
0	31.96	29.98054	1065.274	6.619986
0	31.97	29.96749	1065.714	6.601519
0	31.98	29.988	1066.154	6.546118
0	31.99	29.97867	1066.593	6.509185

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	32	30.01906	1067.033	6.546118
0	32.01	29.99545	1067.473	6.804654
0	32.02	29.99856	1067.913	6.435317
0	32.03	30.00539	1068.353	6.656919
0	32.04	30.00788	1068.794	6.638453
0	32.05	30.04081	1069.234	6.36145
0	32.06	30.01223	1069.674	6.527651
0	32.07	30.02155	1070.115	7.06319
0	32.08	30.07374	1070.555	7.247858
0	32.09	30.0899	1070.996	7.155524
0	32.1	30.06877	1071.438	7.561794
0	32.11	30.0899	1071.879	7.635662
0	32.12	30.06567	1072.32	7.635662
0	32.13	30.05386	1072.761	7.487927
0	32.14	30.06939	1073.202	7.543328
0	32.15	30.02341	1073.642	7.377126
0	32.16	29.99669	1074.082	7.11859
0	32.17	29.98986	1074.522	7.284792
0	32.18	30.02093	1074.962	7.266325
0	32.19	29.97432	1075.402	7.247858
0	32.2	30.00104	1075.842	7.192458
0	32.21	29.99421	1076.282	7.284792
0	32.22	29.98489	1076.722	7.137057
0	32.23	30.01347	1077.162	7.691062
0	32.24	29.98924	1077.602	7.76493
0	32.25	30.00042	1078.042	7.912664
0	32.26	30.00291	1078.482	8.208134
0	32.27	29.99732	1078.922	8.189667
0	32.28	30.01223	1079.362	7.986532
0	32.29	30.00104	1079.802	8.097333
0	32.3	30.00104	1080.242	7.986532
0	32.31	29.99794	1080.682	7.801864
0	32.32	29.97619	1081.122	7.543328
0	32.33	29.94698	1081.561	7.506394
0	32.34	29.92648	1082.001	7.487927
0	32.35	29.95817	1082.44	7.561795
0	32.36	29.93331	1082.879	7.654129
0	32.37	29.93953	1083.318	7.76493
0	32.38	29.93829	1083.757	7.672596
0	32.39	29.89293	1084.196	7.506394
0	32.4	29.94761	1084.635	7.691062
0	32.41	29.96563	1085.074	7.487927
0	32.42	29.96438	1085.513	7.192458
0	32.43	29.97557	1085.953	7.358659
0	32.44	30.00353	1086.393	7.155524
0	32.45	30.00353	1086.833	7.007789
0	32.46	30.01285	1087.273	6.952389
0	32.47	30.02466	1087.713	6.71232
0	32.48	30.01534	1088.154	6.250649
0	32.49	29.99732	1088.594	6.065981

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	32.5	30.00104	1089.034	5.918246
0	32.51	30.01409	1089.474	6.121381
0	32.52	30.01844	1089.914	5.899779
0	32.53	30.02217	1090.354	5.955179
0	32.54	30.03895	1090.795	6.029047
0	32.55	30.03584	1091.235	6.379917
0	32.56	30.04703	1091.676	6.232182
0	32.57	30.05821	1092.117	6.121381
0	32.58	30.10295	1092.558	6.379917
0	32.59	30.09425	1092.999	6.583052
0	32.6	30.0377	1093.44	6.896988
0	32.61	30.08679	1093.881	6.878521
0	32.62	30.09487	1094.323	7.137057
0	32.63	30.10481	1094.764	7.284792
0	32.64	30.09052	1095.205	7.081656
0	32.65	30.10668	1095.647	6.970855
0	32.66	30.12345	1096.089	6.970855
0	32.67	30.09922	1096.53	7.007789
0	32.68	30.08431	1096.972	7.081656
0	32.69	30.06629	1097.413	7.247858
0	32.7	30.06132	1097.854	7.229391
0	32.71	30.08306	1098.295	7.173991
0	32.72	30.04827	1098.736	7.247858
0	32.73	30.04268	1099.176	7.155524
0	32.74	30.0172	1099.617	7.173991
0	32.75	30.02838	1100.057	7.137057
0	32.76	30.0346	1100.498	6.933922
0	32.77	30.06442	1100.938	6.970856
0	32.78	30.04081	1101.379	7.266325
0	32.79	30.04765	1101.82	6.989322
0	32.8	30.05137	1102.26	6.896988
0	32.81	30.04951	1102.701	6.841588
0	32.82	30.04578	1103.142	6.71232
0	32.83	30.05883	1103.583	6.583052
0	32.84	30.05635	1104.023	6.970856
0	32.85	30.04143	1104.464	7.081657
0	32.86	30.0346	1104.905	6.804654
0	32.87	30.00601	1105.345	6.583052
0	32.88	30.02838	1105.785	6.342983
0	32.89	30.05262	1106.226	6.435318
0	32.9	30.0899	1106.667	6.546119
0	32.91	30.06939	1107.108	6.804654
0	32.92	30.07685	1107.549	6.970856
0	32.93	30.10606	1107.991	6.546119
0	32.94	30.09176	1108.432	6.65692
0	32.95	30.10419	1108.873	6.583052
0	32.96	30.07623	1109.315	6.933922
0	32.97	30.0899	1109.756	6.896988
0	32.98	30.09487	1110.197	7.007789
0	32.99	30.13712	1110.639	6.989323

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	33	30.16695	1111.081	7.081657
0	33.01	30.16944	1111.524	7.06319
0	33.02	30.2005	1111.966	7.247858
0	33.03	30.2092	1112.409	7.081657
0	33.04	30.17751	1112.852	7.450994
0	33.05	30.1887	1113.295	7.007789
0	33.06	30.2005	1113.738	6.989323
0	33.07	30.18621	1114.181	7.340193
0	33.08	30.18497	1114.623	7.580261
0	33.09	30.17813	1115.066	7.617195
0	33.1	30.17813	1115.509	7.524861
0	33.11	30.12967	1115.951	7.487927
0	33.12	30.14396	1116.393	7.340193
0	33.13	30.17751	1116.835	7.321726
0	33.14	30.20423	1117.278	7.41406
0	33.15	30.23219	1117.721	7.672596
0	33.16	30.22163	1118.165	7.727996
0	33.17	30.23841	1118.608	7.469461
0	33.18	30.25208	1119.052	7.524861
0	33.19	30.26388	1119.495	7.247859
0	33.2	30.26078	1119.939	6.970856
0	33.21	30.27134	1120.383	6.878522
0	33.22	30.31484	1120.827	7.137058
0	33.23	30.33286	1121.272	6.841588
0	33.24	30.31546	1121.717	7.155525
0	33.25	30.32851	1122.162	6.638453
0	33.26	30.3254	1122.606	6.878522
0	33.27	30.308	1123.051	6.915456
0	33.28	30.32602	1123.496	6.915456
0	33.29	30.27755	1123.94	6.675387
0	33.3	30.2788	1124.384	6.730787
0	33.31	30.26264	1124.828	6.675387
0	33.32	30.2614	1125.272	6.619986
0	33.33	30.28253	1125.716	6.749254
0	33.34	30.29433	1126.16	6.804655
0	33.35	30.33907	1126.605	6.804655
0	33.36	30.36455	1127.05	6.767721
0	33.37	30.39189	1127.496	6.730787
0	33.38	30.38381	1127.941	6.453785
0	33.39	30.38629	1128.387	6.472252
0	33.4	30.38816	1128.833	6.379917
0	33.41	30.3981	1129.278	6.472252
0	33.42	30.39064	1129.724	6.416851
0	33.43	30.37884	1130.17	6.324517
0	33.44	30.36268	1130.615	6.250649
0	33.45	30.37511	1131.061	6.250649
0	33.46	30.38629	1131.506	6.619986
0	33.47	30.36392	1131.952	6.398384
0	33.48	30.37511	1132.397	6.490718
0	33.49	30.37884	1132.843	6.379917

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
0	33.5	30.37325	1133.288	6.564585
0	33.51	30.39437	1133.734	6.71232
0	33.52	30.39686	1134.18	6.71232
0	33.53	30.37573	1134.625	6.546118
0	33.54	30.40307	1135.071	6.213715
0	33.55	30.40742	1135.517	6.084447
0	33.56	30.39313	1135.963	6.379917
0	33.57	30.39561	1136.409	6.232182
0	33.58	30.40245	1136.854	6.416851
0	33.59	30.39996	1137.3	6.619986
0	33.6	30.39872	1137.746	6.490718
0	33.61	30.42855	1138.192	6.71232
0	33.62	30.46086	1138.639	6.693854
0	33.63	30.46894	1139.086	6.933922
0	33.64	30.4416	1139.532	6.583052
0	33.65	30.43352	1139.979	6.416851
0	33.66	30.4447	1140.425	6.398384
0	33.67	30.46334	1140.872	6.30605
0	33.68	30.4708	1141.319	6.30605
0	33.69	30.46024	1141.765	6.324517
0	33.7	30.47204	1142.212	6.398384
0	33.71	30.46521	1142.659	6.675387
0	33.72	30.47018	1143.106	6.583052
0	33.73	30.50249	1143.553	6.546119
0	33.74	30.4969	1144.001	6.860055
0	33.75	30.5261	1144.448	7.284792
0	33.76	30.51119	1144.896	7.303259
1	33.77	30.52548	1145.343	7.229391
1	33.78	30.50498	1145.791	7.303259
1	33.79	30.54785	1146.239	7.284792
1	33.8	30.55966	1146.687	7.395593
1	33.81	30.5261	1147.135	7.912664
1	33.82	30.5	1147.582	8.300468
1	33.83	30.49876	1148.029	8.836006
1	33.84	30.50125	1148.477	9.408479
1	33.85	30.51554	1148.924	10.75656
1	33.86	30.5143	1149.372	12.1785
1	33.87	30.51181	1149.819	13.36038
1	33.88	30.53667	1150.267	15.11473
1	33.89	30.55469	1150.715	17.09068
1	33.9	30.51181	1151.163	19.3621
1	33.91	30.50249	1151.61	22.3168
1	33.92	30.49006	1152.058	24.97602
1	33.93	30.49566	1152.505	28.26312
1	33.94	30.48136	1152.952	32.06729
1	33.95	30.43103	1153.399	35.88992
1	33.96	30.40742	1153.845	39.87876
1	33.97	30.42171	1154.291	44.01533
1	33.98	30.41363	1154.737	48.53971
1	33.99	30.39313	1155.183	53.37802

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
1	34	30.37014	1155.628	58.401
1	34.01	30.34715	1156.074	63.51632
1	34.02	30.36268	1156.519	68.66857
1	34.03	30.3807	1156.964	73.74694
1	34.04	30.38629	1157.41	79.06539
1	34.05	30.36517	1157.856	84.55005
1	34.06	30.32416	1158.301	89.72076
1	34.07	30.29682	1158.745	94.70681
1	34.08	30.25518	1159.189	99.95139
1	34.09	30.18621	1159.632	104.3834
1	34.1	30.13961	1160.075	109.0925
1	34.11	30.07685	1160.516	113.1182
1	34.12	30.01099	1160.957	116.6269
1	34.13	29.95631	1161.397	120.228
1	34.14	29.87988	1161.836	123.4781
1	34.15	29.8252	1162.273	126.4882
1	34.16	29.73323	1162.71	129.0921
1	34.17	29.62822	1163.146	131.9359
1	34.18	29.51513	1163.579	134.5028
1	34.19	29.39272	1164.011	136.4234
1	34.2	29.28025	1164.442	137.9007
1	34.21	29.14355	1164.87	139.0457
1	34.22	29.00374	1165.296	140.1168
1	34.23	28.85834	1165.721	141.1324
1	34.24	28.70611	1166.143	141.7603
1	34.25	28.54206	1166.563	142.185
1	34.26	28.35068	1166.98	142.499
1	34.27	28.11829	1167.394	142.2774
1	34.28	27.87347	1167.805	142.1296
1	34.29	27.66282	1168.212	141.5572
1	34.3	27.35959	1168.615	141.2248
1	34.31	27.16946	1169.015	140.006
1	34.32	26.89481	1169.412	139.0641
1	34.33	26.62513	1169.804	138.1408
1	34.34	26.32377	1170.192	136.9035
1	34.35	26.06963	1170.577	135.6478
1	34.36	25.80803	1170.957	134.0781
1	34.37	25.65082	1171.334	132.5823
1	34.38	25.45136	1171.709	130.8649
1	34.39	25.28049	1172.081	129.2952
1	34.4	25.14254	1172.451	128.0025
1	34.41	24.97477	1172.819	127.0422
1	34.42	24.86106	1173.184	125.8604
1	34.43	24.79955	1173.548	124.7524
1	34.44	24.73244	1173.911	123.3304
1	34.45	24.67589	1174.274	122.3147
1	34.46	24.55783	1174.635	121.1698
1	34.47	24.48202	1174.994	119.7294
1	34.48	24.40497	1175.353	118.7322
1	34.49	24.33476	1175.71	117.8088

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
1	34.5	24.24715	1176.067	116.9593
1	34.51	24.13344	1176.421	116.1468
1	34.52	23.98493	1176.774	115.8513
1	34.53	23.86065	1177.125	115.759
1	34.54	23.73762	1177.474	115.3527
1	34.55	23.62578	1177.822	115.1127
1	34.56	23.50274	1178.167	115.0203
1	34.57	23.36666	1178.511	115.1311
1	34.58	23.19517	1178.852	115.5005
1	34.59	23.01435	1179.191	115.2419
1	34.6	22.87516	1179.528	115.3343
1	34.61	22.75275	1179.862	115.5189
1	34.62	22.59927	1180.195	115.3897
1	34.63	22.4955	1180.526	115.2235
1	34.64	22.38676	1180.855	115.0203
1	34.65	22.23577	1181.182	114.9095
1	34.66	22.12827	1181.507	114.8172
1	34.67	22.01332	1181.831	114.6879
1	34.68	21.87724	1182.153	114.4109
1	34.69	21.7598	1182.473	114.2447
1	34.7	21.62869	1182.791	114.1708
1	34.71	21.50255	1183.107	113.8384
1	34.72	21.39008	1183.422	113.1552
1	34.73	21.26891	1183.735	112.7858
1	34.74	21.14215	1184.046	111.7517
1	34.75	20.97066	1184.355	111.013
1	34.76	20.8731	1184.661	110.0527
1	34.77	20.79357	1184.967	109.074
1	34.78	20.65065	1185.271	107.8737
1	34.79	20.49655	1185.573	106.4517
1	34.8	20.3642	1185.872	105.196
1	34.81	20.20016	1186.17	103.7556
1	34.82	20.08023	1186.465	101.8719
1	34.83	19.94602	1186.759	100.2099
1	34.84	19.7683	1187.05	98.67717
1	34.85	19.65397	1187.339	97.29216
1	34.86	19.50857	1187.626	95.74095
1	34.87	19.37498	1187.911	94.4852
1	34.88	19.24635	1188.195	93.35873
1	34.89	19.12208	1188.476	92.67545
1	34.9	18.98165	1188.755	91.58591
1	34.91	18.88471	1189.033	90.5333
1	34.92	18.77722	1189.309	89.9239
1	34.93	18.66723	1189.584	89.53609
1	34.94	18.57092	1189.857	88.72355
1	34.95	18.43422	1190.128	88.68662
1	34.96	18.32362	1190.398	88.40961
1	34.97	18.21922	1190.666	88.20648
1	34.98	18.10986	1190.932	87.92948
1	34.99	18.03157	1191.197	88.02181

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
1	35	17.91724	1191.461	87.72634
1	35.01	17.82403	1191.723	87.78174
1	35.02	17.74947	1191.984	87.91101
1	35.03	17.63389	1192.243	88.33575
1	35.04	17.52205	1192.501	88.74202
1	35.05	17.39901	1192.757	89.20369
1	35.06	17.2474	1193.011	89.86849
1	35.07	17.11008	1193.263	90.51483
1	35.08	16.95971	1193.513	91.12424
1	35.09	16.85842	1193.761	91.58591
1	35.1	16.72856	1194.007	91.75211
1	35.11	16.61982	1194.252	92.12145
1	35.12	16.51294	1194.495	92.52772
1	35.13	16.40482	1194.736	92.76779
1	35.14	16.31099	1194.976	93.15559
1	35.15	16.21344	1195.215	93.35873
1	35.16	16.14384	1195.452	93.45106
1	35.17	16.06493	1195.688	93.96813
1	35.18	15.96489	1195.923	94.4298
1	35.19	15.87603	1196.157	94.72527
1	35.2	15.79588	1196.389	94.79914
1	35.21	15.73498	1196.62	95.31621
1	35.22	15.67533	1196.85	95.81482
1	35.23	15.60015	1197.08	96.14722
1	35.24	15.53739	1197.308	96.36882
1	35.25	15.46779	1197.536	96.53502
1	35.26	15.34663	1197.762	96.66429
1	35.27	15.25156	1197.986	96.64583
1	35.28	15.14282	1198.209	96.79356
1	35.29	15.0347	1198.43	96.71969
1	35.3	14.95889	1198.65	96.68276
1	35.31	14.84083	1198.869	96.46116
1	35.32	14.75819	1199.086	96.81203
1	35.33	14.6569	1199.301	96.88589
1	35.34	14.54506	1199.515	96.84896
1	35.35	14.43072	1199.728	96.88589
1	35.36	14.32633	1199.939	97.1629
1	35.37	14.22319	1200.148	96.88589
1	35.38	14.09146	1200.356	96.68276
1	35.39	13.98458	1200.562	96.60889
1	35.4	13.87833	1200.766	96.90436
1	35.41	13.79195	1200.969	97.29216
1	35.42	13.64593	1201.17	97.53223
1	35.43	13.52601	1201.369	97.71689
1	35.44	13.41603	1201.567	98.01236
1	35.45	13.32593	1201.763	98.47403
1	35.46	13.19979	1201.958	99.06497
1	35.47	13.12336	1202.151	99.74825
1	35.48	13.03512	1202.343	100.2469
1	35.49	12.90961	1202.533	100.5608

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
1	35.5	12.82945	1202.722	101.2995
1	35.51	12.70083	1202.909	101.8719
1	35.52	12.60576	1203.094	102.3705
1	35.53	12.46968	1203.278	102.3151
1	35.54	12.32987	1203.46	102.7029
1	35.55	12.16831	1203.64	102.9799
1	35.56	12.07511	1203.818	103.2385
1	35.57	11.92846	1203.994	103.7186
1	35.58	11.78306	1204.167	104.328
1	35.59	11.66127	1204.339	104.8266
1	35.6	11.4935	1204.509	105.3068
1	35.61	11.37358	1204.677	105.5468
1	35.62	11.26297	1204.843	105.7869
1	35.63	11.16977	1205.007	106.1193
1	35.64	11.02747	1205.17	106.4148
1	35.65	10.8771	1205.331	106.6733
1	35.66	10.73916	1205.489	107.0981
1	35.67	10.62855	1205.646	107.5043
1	35.68	10.54778	1205.801	107.7259
1	35.69	10.42102	1205.955	107.8921
1	35.7	10.28742	1206.107	108.7231
1	35.71	10.17123	1206.257	109.1294
1	35.72	10.0339	1206.405	109.4064
1	35.73	9.907142	1206.551	110.0527
1	35.74	9.779761	1206.696	110.6622
1	35.75	9.680963	1206.838	111.29
1	35.76	9.556068	1206.98	111.8256
1	35.77	9.41688	1207.119	112.4534
1	35.78	9.30814	1207.256	113.0998
1	35.79	9.225498	1207.392	113.4137
1	35.8	9.067048	1207.526	113.8569
1	35.81	8.907356	1207.658	114.2262
1	35.82	8.829063	1207.788	114.651
1	35.83	8.733372	1207.917	114.9649
1	35.84	8.584864	1208.044	115.2419
1	35.85	8.412123	1208.168	115.5559
1	35.86	8.258645	1208.291	115.8883
1	35.87	8.128778	1208.411	116.0729
1	35.88	7.982756	1208.529	116.1653
1	35.89	7.844811	1208.645	116.2945
1	35.9	7.673313	1208.759	116.7193
1	35.91	7.551524	1208.87	116.5161
1	35.92	7.427871	1208.98	116.2576
1	35.93	7.260101	1209.088	116.35
1	35.94	7.184915	1209.194	116.2022
1	35.95	7.030815	1209.298	116.4608
1	35.96	6.925803	1209.401	116.2392
1	35.97	6.753683	1209.501	116.2576
1	35.98	6.622574	1209.599	115.9806
1	35.99	6.533097	1209.695	115.7221

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
1	36	6.376511	1209.79	115.6482
1	36.01	6.229246	1209.883	115.1865
1	36.02	6.124234	1209.973	114.8911
1	36.03	5.983805	1210.062	114.7803
1	36.04	5.878793	1210.149	114.6141
1	36.05	5.711023	1210.234	114.2817
1	36.06	5.558787	1210.317	113.9493
1	36.07	5.417114	1210.397	113.8569
1	36.08	5.275441	1210.475	113.6538
1	36.09	5.151167	1210.552	113.6538
1	36.1	5.042427	1210.627	113.4691
1	36.11	4.90324	1210.7	113.0444
1	36.12	4.760946	1210.77	112.7489
1	36.13	4.629837	1210.839	112.6935
1	36.14	4.468902	1210.906	112.6381
1	36.15	4.362647	1210.971	112.8228
1	36.16	4.201091	1211.034	112.398
1	36.17	4.101671	1211.095	112.3057
1	36.18	3.978018	1211.154	112.2134
1	36.19	3.843802	1211.211	112.0102
1	36.2	3.762403	1211.267	111.7332
1	36.21	3.614516	1211.321	111.9733
1	36.22	3.503291	1211.373	111.8625
1	36.23	3.38958	1211.424	111.6409
1	36.24	3.2448	1211.472	111.4008
1	36.25	3.106235	1211.519	111.3639
1	36.26	2.973261	1211.564	111.4932
1	36.27	2.811083	1211.606	111.7702
1	36.28	2.674382	1211.646	111.4008
1	36.29	2.560049	1211.685	111.1792
1	36.3	2.417755	1211.721	110.7545
1	36.31	2.257442	1211.755	110.7176
1	36.32	2.149323	1211.788	110.6252
1	36.33	2.043068	1211.818	110.5514
1	36.34	1.882133	1211.847	110.2559
1	36.35	1.783335	1211.874	109.8865
1	36.36	1.617429	1211.899	109.5172
1	36.37	1.495019	1211.922	109.3141
1	36.38	1.366395	1211.943	109.0925
1	36.39	1.265112	1211.962	108.8339
1	36.4	1.139595	1211.98	108.9817
1	36.41	1.015321	1211.996	108.7047
1	36.42	0.86992	1212.009	108.1876
1	36.43	0.75683	1212.021	108.1691
1	36.44	0.645605	1212.032	108.2984
1	36.45	0.485291	1212.04	107.9475
1	36.46	0.334919	1212.046	107.3935
1	36.47	0.197596	1212.05	106.5995
1	36.48	0.078914	1212.052	105.5653
1	36.49	0.065244	1212.053	104.9005

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
1	36.5	0.162799	1212.055	103.8664
1	36.51	0.300122	1212.058	102.8876
1	36.52	0.411348	1212.063	101.9273
1	36.53	0.559855	1212.07	100.8193
1	36.54	0.65244	1212.079	99.45279
1	36.55	0.782306	1212.09	98.27091
1	36.56	0.905338	1212.102	97.23676
1	36.57	1.013456	1212.116	96.12875
1	36.58	1.054467	1212.131	95.05768
1	36.59	1.106662	1212.147	94.07893
1	36.6	1.17377	1212.164	93.10019
1	36.61	1.194897	1212.181	91.93678
1	36.62	1.208567	1212.199	90.84724
1	36.63	1.184333	1212.216	90.23783
1	36.64	1.167556	1212.234	89.33295
1	36.65	1.074351	1212.25	88.40961
1	36.66	1.020291	1212.266	87.91101
1	36.67	0.935164	1212.28	87.37547
1	36.68	0.843201	1212.293	87.06153
1	36.69	0.766151	1212.305	87.1908
1	36.7	0.631935	1212.315	87.22773
1	36.71	0.569176	1212.324	87.68941
1	36.72	0.51201	1212.332	87.70787
1	36.73	0.431853	1212.339	87.37547
1	36.74	0.374065	1212.345	87.39394
1	36.75	0.322492	1212.35	87.50474
1	36.76	0.273403	1212.354	87.48627
1	36.77	0.297015	1212.358	87.37547
1	36.78	0.255384	1212.362	87.1908
1	36.79	0.256005	1212.366	87.11694
1	36.8	0.273403	1212.37	86.9692
1	36.81	0.307579	1212.374	86.98767
1	36.82	0.264704	1212.378	86.83993
1	36.83	0.239228	1212.382	87.09847
1	36.84	0.224315	1212.385	86.87687
1	36.85	0.24917	1212.389	86.6922
1	36.86	0.236742	1212.392	86.43366
1	36.87	0.205674	1212.396	85.63959
1	36.88	0.180198	1212.399	85.45492
1	36.89	0.15845	1212.401	85.19639
1	36.9	0.100662	1212.403	84.53158
1	36.91	0.085749	1212.404	84.21764
1	36.92	0.047224	1212.405	83.49744
1	36.93	0.066487	1212.406	83.31277
1	36.94	0.050331	1212.407	83.25737
1	36.95	0.024855	1212.408	83.20197
1	36.96	0.065244	1212.408	83.31277
1	36.97	0.103769	1212.409	83.38664
1	36.98	0.118061	1212.411	83.4605
1	36.99	0.152236	1212.413	83.58977

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
1	37	0.161557	1212.415	83.5713
1	37.01	0.146022	1212.418	83.5713
1	37.02	0.152857	1212.42	83.33123
1	37.03	0.157207	1212.422	83.33123
1	37.04	0.152236	1212.424	82.98036
1	37.05	0.111847	1212.426	82.55563
1	37.06	0.121167	1212.428	82.44483
1	37.07	0.120546	1212.43	82.37096
1	37.08	0.075186	1212.431	83.09117
1	37.09	0.05903	1212.432	83.16503
1	37.1	0.039146	1212.433	83.10963
1	37.11	0.069594	1212.434	83.3497
1	37.12	0.062758	1212.435	83.22043
1	37.13	0.039768	1212.435	83.47897
1	37.14	0.003107	1212.436	83.71904
1	37.15	0.047846	1212.436	83.97757
1	37.16	0.048467	1212.437	84.06991
1	37.17	0.037282	1212.437	84.10684
1	37.18	0.038525	1212.438	83.88524
1	37.19	0.053438	1212.439	83.92217
1	37.2	0.02734	1212.439	84.05144
1	37.21	0.047846	1212.44	84.53158
1	37.22	0.079536	1212.441	84.53158
1	37.23	0.073322	1212.442	84.66085
1	37.24	0.068351	1212.443	84.58698
1	37.25	0.031069	1212.444	84.90091
1	37.26	0.008699	1212.444	85.27025
1	37.27	0.017398	1212.444	85.52879
1	37.28	0.025476	1212.444	85.45492
1	37.29	0.026098	1212.445	85.17792
1	37.3	0.027962	1212.445	85.03018
1	37.31	0.034175	1212.446	85.25178
1	37.32	0.055302	1212.446	85.28872
1	37.33	0.042253	1212.447	85.39952
1	37.34	0.034175	1212.448	85.34412
1	37.35	0.035418	1212.448	85.39952
1	37.36	0.011185	1212.448	85.36258
1	37.37	0.018641	1212.449	85.38105
1	37.38	0.024233	1212.449	85.34412
1	37.39	0.021127	1212.449	85.56572
1	37.4	0.033554	1212.45	85.56572
1	37.41	0.020505	1212.45	85.49185
1	37.42	0.010563	1212.45	85.39952
1	37.43	0.014913	1212.45	85.41798
1	37.44	0.026098	1212.451	85.47338
1	37.45	0.01802	1212.451	85.65805
1	37.46	0.031069	1212.451	85.54725
1	37.47	0.031069	1212.452	85.49185
1	37.48	0.029204	1212.452	85.60265
1	37.49	0.020505	1212.453	85.93506

Y Trigger	X Time	Y Speed (mp	Y Distance (f	Y Pedal Force (lb)
1	37.5	0.039768	1212.453	86.35979
1	37.51	0.028583	1212.454	86.56293
1	37.52	0.035418	1212.454	86.43366
1	37.53	0.03169	1212.455	86.39673
1	37.54	0.036661	1212.455	86.35979
1	37.55	0.01802	1212.456	86.26746
1	37.56	0.016777	1212.456	85.91659
1	37.57	0.010563	1212.456	85.67652
1	37.58	0.044117	1212.456	85.51032
1	37.59	0.031069	1212.457	85.41799
1	37.6	0.024855	1212.457	85.51032
1	37.61	0.026719	1212.458	85.39952
1	37.62	0.050952	1212.458	85.39952
1	37.63	0.052195	1212.459	85.10405
1	37.64	0.016156	1212.46	85.23332
1	37.65	0.055923	1212.46	85.06712
1	37.66	0.037282	1212.461	85.30719
1	37.67	0.016156	1212.461	81.37375
1	37.68	0.029204	1212.462	77.42185
1	37.69	0.021748	1212.462	73.28527
1	37.7	0.041632	1212.462	69.27797
1	37.71	0.001243	1212.463	65.04906
1	37.72	0.007456	1212.463	61.07869
1	37.73	0.009942	1212.463	57.27452
1	37.74	0.022369	1212.463	53.30415
1	37.75	0.021127	1212.463	49.40765
1	37.76	0.033554	1212.464	45.56655
0	37.77	0.100041	1212.465	41.76238

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Lily Luo
Mariya Petrovska
Michael Ringstad
Prashanth Radhakri...

Can you send us a electronics copy of the latest ZAP Xebra braking test from Russ' visit last week?

thanks,
Joe Rajakaruna

Kelsey Chiu kchiu@karco.com
to me

Apr 2

Joe,

Attached is the requested data.

Just a reminder, there will be a $1000 charge for the work related with that day. Also, do you have any idea of what will be happening with the vehicle from here on?

Best Regards,

Kelsey Chiu
Engineering Department Supervisor
KARCO Engineering, LLC.
(760) 246-1672

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Subject: ZAP Brake Test

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KARCO Inbox x

Kelsey Chiu kchiu@karco.com
to me, Mike

Feb 16

Joe,

Attached is the Data Sheet 5 information. The speed run data was 36.4 mph and 38.2 mph, making the maximum speed 37.3 mph.

The received weight is as follows:
Front – 637 lb
Left Rear – 618 lb
Right Rear – 617 lb
Total – 1872 lb

The as-tested weight is as follows:
Front – 746 lb
Left Rear – 696 lb
Right Rear – 630 lb
Total – 2072 lb

Best Regards,

Kelsey Chiu
Engineering Department Supervisor
KARCO Engineering, LLC.
(760) 246-1672

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ZAP Xebra

Inbox x

Rajakaruna Joe Jun 6
to kchiu

Hello Kelsey,

Thanks for the update last week.

How is the 2nd effectiveness test going? Did the Xebra stop in the distance?

Also, when you get a chance can you send the data from the 1st effectiveness test.

thanks,
Joe Rajakaruna

Kelsey Chiu kchiu@karco.com Jun 6
to Michael, mdunlap, me

Joe,

We are currently working on the burnish process. It is creating a bit of a problem with brake drag. This is causing the temperatures to get very hot and the battery is not lasting more than 10 miles per charge. It is taking quite some time.

Best Regards,

Kelsey Chiu
Engineering Department Supervisor
KARCO Engineering, LLC.
(760) 246-1672

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From: Rajakaruna Joe [mailto:jrajakaruna@zapworld.com]
Sent: Wednesday, June 06, 2012 2:11 PM
To: kchiu@karco.com
Subject: ZAP Xebra

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