

Frank Hogan								
2001 996 TT								
Date		05-May-15						
			Labour			Parts		
Parts	Description	Hrs	Rate	Total	Qty	Price	Comments	
<b>Engine</b>								
Owner - concerned about engine noise								
Bert - engine sounds normal, each Metzger engine has a unique sound when warm, these engines are quite noisy during start up and idle until they warm up								
Bert - noise amplified by stiffer aftermarket engine mounts - recommend go back to stock engine mounts								
996-10722553-M67	Oil Filter				1	\$14.02	Pelican	
	Oil - Mobil 15W40				1	\$201.25		
900-123-010-20-M131	Oil tank drain plug seal				0.25	\$0.36	Pelican	
900-123-118-30-M131	Oil drain plug washer				0.25	\$0.36	Pelican	
Spark Plugs								
Ignition Coils								
Engine Mounts (Wevo not for Turbo?, Bert - engine not sitting correctly in engine bay)								
Pulley and Belt (owner provided)								
Diverter Valves								
Used Boost Hoses - worn not sure of quality, clamps - not sufficient, recommend staying with OEM								
owner provided								
shipped from Ultimate Motor Werks								
provided by owner								
<b>Labour</b>								
Bert	Changed Plugs/Coils	4.5	\$85.00	\$382.50				
Bert	Changed Clutch Master/Accumulator	2.25	\$85.00	\$191.25				
Bert	Changed Diverter Valves	1.25	\$85.00	\$106.25				
Bert	Changed Boost Hoses - Bert recommends staying with stock hoses	0.75	\$85.00	\$63.75				
Bert	Install Pulley/Belt	1.25	\$85.00	\$106.25				
<b>ECU Tune</b>								
Update ECU as per tuner instructions								
OBDII Module used to read ECU, read ok, Canada Post Return								
to be provided by Ultimate Motor Werks								
to be provided by Ultimate Motor Werks								
<b>Labour</b>								
Bert	Read Module, return - recommend not changing engine tune re reliability	0.25	\$85.00	\$21.25				
<b>Exhaust</b>								
install used muffler/cats provided by owner								
provided								
996-111-217-70-M17	Metal O-ring gasket turbo to cat				14.5	\$41.69	Pelican	
Oxygen sensor - pre cat provided by customer								
shipped from Ultimate Motor Werks								
996-606-138-01-M14	Oxygen sensor - post cat bank 1 and 2				79.5	\$228.56	Pelican	
<b>Labour</b>								
Bert	Changed Muffler, Install O2 Sensors	2.5	\$85.00	\$212.50				
<b>Clutch</b>								
996-116-237-52-M100	Clutch Slave Cylinder and Accumulator				534.75	\$768.70	Pelican	
997-314-166-00-OEM	Master reservoir and lid				165	\$237.19	Pelican	
Pentosin CHF 11S								
17.5 \$75.47 Pelican								
Driver side plenum cover - factory cover does not fit, OEM has been modified for front strut brace?								
81.75 \$94.01 Mark Motors								
<b>Labour</b>								
Bert	Changed Clutch Master Cylinder/Reservoir	2.5	\$85.00	\$212.50				
Glen	Bleed Clutch	0.75	\$85.00	\$63.75				
Clutch feels soft, possible slave cylinder problem, recommend monitor/change slave								

<b>Fuel System</b>									
996-201-241-03-M8	Gas Cap						15	\$21.56	Pelican
999-507-499-40-M100	Gas Cap Strap						1	\$1.44	Pelican
996-110-253-52-M67	Fuel Filter	Mahle					35	\$50.31	Pelican
	Fuel Filter Seals								
<b>Labour</b>									
Bert	Gas Cap/Filter, changed fuel filter and seals		0.5	\$85.00	\$42.50				
<b>Coolant System</b>									
	Coolant leak, need to replace expansion tank								
996-106-157-04-M100	Coolant Expansion Tank						167.75	\$241.14	Pelican
996-106-447-04-M100	Coolant Tank Lid						30.75	\$44.20	Pelican
	Coolant leak at engine flange, need o-rings								
999-707-410-40	O-Rings	for flange 996-106-140-1R					7.458	\$8.58	Mark Motors
999-707-411-40	O-Rings	for flange 996-106-140-1R					11.1305	\$51.20	Mark Motors
<b>Labour</b>									
Bert	Coolant System Rework, check levels and leaks, ok		2.75	\$85.00	\$233.75				
	Coolant - Premix -fill, bleed, levels ok, monitor								
<b>Electrical</b>									
900-631-105-90-M97	License Plate Bulb						1.5	\$4.31	Pelican
<b>Labour</b>									
Bert	Change Bulbs		0	\$85.00	\$0.00				
<b>Transmission</b>									
	Owner concerned about 2nd gear pop out								
	Could not recreate the problem								
	Bert - most 2nd gear pop out issues caused by short shift kit and shifting too fast, these transmissions need to be shifted slowly and deliberately								
	Replaced transmission mount with customer supplied mount.								
<b>Labour</b>									
Bert	Change Transmission Mount (relower engine)		2.5	\$85.00	\$212.50				
Glen	Transmission shifts smoothly, reverse sometimes hard to find, could use cable adj		0	\$85.00	\$0.00				
Bert	Aftermarket shift mechanism installed - not recommended		0	\$85.00	\$0.00				
<b>Drive Train</b>									
	Front half shafts ok, boots ok								
<b>Steering</b>									
	boots ok, joints tight								
<b>Suspension</b>									
	Noise in front wheel bearings, front wheel bearings replaced								
999-053-054-06-OEM	Front Wheel Bearings						82.75	\$237.91	Pelican
999-0846-410-01	Drive Shaft Lock Nuts						12.1249	\$27.89	Mark Motors
	Owner considering Bilstein Shock upgrade? - recommendation - not required at this time								
<b>Labour</b>									
Bert	Change Front Wheel Bearings		4	\$85.00	\$340.00				
<b>Interior</b>									

	Cup Holder (owner provided) - do not install							
	Ashtray insert - do not install							
	Noisy Door panel to be investigated and corrected							
<b>Labour</b>								
Bert	Repositioned Door Panel, may need to be glued after stereo install	0.25	\$85.00	\$21.25				
Glen	Install Driver Seat and remove Console	4.5	\$85.00	\$382.50				
	replacement driver seat slider mechanism damaged - shipping?							
	moved seat air bag sensors from 996 seats to 997 seats							
	air bag light - need to investigate sensor locations, wiring							
	electric controls to be wired to 996 seat harness, not complete							
Glen	Assemble and Install Center Console	1.75	\$85.00	\$148.75				
	replacement center console not same as original, no hinge, rear screw holders, could not install box cover							
	rattle in center console - missing rear screws, orange holders not correct size for plastic thickness							
Glen	Install Passenger Seat	5	\$85.00	\$425.00				
	replacement passenger seat slider mechanism damaged - shipping?							
	seat finish scratched, missing hinge cover panel							
	moved seat air bag sensors from 996 seats to 997 seats							
	air bag light - need to investigate sensor locations, wiring							
	electric controls to be wired to 996 seat harness, not complete							
<b>Exterior Paint Touch Up</b>	(23Mar15: Stop work. Customer will use Autotrendz)							
	Hood touch up							Dent Pro
	Chip in paint, passenger side near turbo intake							Dent Pro
	clear coat touch up on roof							Dent Pro
	Other paint defects							Dent Pro
	Apply 3M Clear: hood, door edges, fuel filler, mirrors							Dent Pro
	Tail Lights - stress cracks in lense, monitor, no action at this time							
<b>Brakes</b>								
	Front Pads - Ok							
	Front Rotors - cleaned up and removed rust and brushed wear ridges							
	Calipers - fluid damage to exterior surface - owner wants repainted, not recommended due to heat transfer							
	New Brake Lines (owner provided)							shipped from Ultimate Motor Werks
	Brake fluid changed and bled							
	Brake Fluid - Super Blue					1	\$40.25	
<b>Labour</b>								
Bert	Inspect/Clean Calipers/Rotors	1.25	\$85.00	\$106.25				
Bert	Installed aftermarket brake lines - recommended using OEM brake lines	1	\$85.00	\$85.00				
	aftermarket steel braided brake lines should be replaced every 2 years							
Glen	Bleed Brakes/Change Fluid	0.5	\$85.00	\$42.50				
<b>Audio</b>								
	Customer organized to use Autotrendz.							
<b>Misc</b>								
	Change Wiper Reservoir Tank provided by Customer - not installed							
	Battery Weak - Keep on trickle charge							
<b>Wheels</b>								
	Install Aftermarket wheels							

	Tires - Nitto or Hankook provided by owner						235/35/19 (front, 2x) and 315/25/19 (rear 2x)
	Right Rear Wheel - Paint Damage - paint very soft and thick, likely to peel, center caps do not fit correctly due to paint thickness						
	Front wheel bolts provided with spacers - not enough longer bolts provided						
	Front wheel spacers not secured with screws - re integrity of rotor mounting						
	Recommend changing front from bolts to studs to match rear						
	Retorque rear wheel spacers periodically - 95ftlbs						
Labour	Install Tires on Rims	43 Auto				1	\$160.56
Glen	Install wheels, spacers (wheels extremely heavy compared to factory)		0.5	\$85.00	\$42.50		
<b>Engine Start (24 April 15)</b>							
	On power up - Airbag Light - driver or passenger? - check sensors and wiring install						
	Engine Start and Idle fine, no engine lights						
	Head lights, turn signals, brake lights working						
	No Leaks (coolant, oil, brake)						
	Warm up - check oil - level OK						
	Warm up - coolant level OK						
<b>Test Drive (25 April 15)</b>							
	Check Engine Light after 5min drive - MAF - appears at idle and on boost, check for leak or MAF connector issue						
	ABS/PSM Light - possibly related to Check engine light, no work done on ABS or PSM, possible ABS sensor						
	Ride - Harsh, recommend taller side wall tires, check tire pressures						
	Rattle in Center Console - missing screw holders						
	Brakes, smooth, no pull side to side						
	Clutch pedal softer than expected, check slave						
	Gear shifts smooth, tried hard acceleration and decel in 2nd gear, Ok						
	Exhaust - louder than OEM						
	Hot - check oil - level OK						
	Hot - coolant level OK						
	Deliver vehicle to customer on 26April15, schedule return to correct deficiencies						
	<b>Total Parts and Labour</b>		<b>40.5</b>	<b>\$3,442.50</b>			<b>\$2,550.96</b>
<b>Shipping, Brokerage, Duty Summary</b>							
	Import Duties and Taxes -25Feb15					1	\$93.31 CBSA
	Import Duties and Taxes -24Mar15					1	\$24.12 Suncoast Motorsports
	Import Duties and Taxes -29Jan15					1	\$33.24 Ultimate Motorwerks
	Import Duties and Taxes -5Feb15					1	\$47.15 Suncoast Motorsports
	Import Duties and Taxes -11Feb15					1	\$35.95 Suncoast Motorsports
	Import Duties and Taxes -11Feb15					1	\$56.05 Ultimate Motorwerks
	Import Duties and Taxes -10Feb15					1	\$100.94 CBSA
	Import Duties and Taxes - 9Apr15					1	\$305.65 CBSA
	Import Duties and taxes - 24Apr15					1	\$387.82 Tires, console, passenger seat
	Shipping from Pelican - 20Feb15					1	\$27.81 Pelican
	Shipping from Pelican - 3Feb15					1	\$33.13 Pelican
	Shipping from Pelican - 17Feb15					1	\$34.69 Pelican
	<b>Total Shipping and Brokerage</b>						<b>\$1,179.86</b>
<b>Misc Items</b>							
Pick Up Car in Kingston	Transport		5.5	\$85.00	\$467.50		
	Logistics - Parts Ordering		1.5	\$85.00	\$127.50		

	Pick Up Parts in Ogdensburg		1.75	\$85.00	\$148.75			
	Pick Up Parts in Ogdensburg		1.75	\$85.00	\$148.75			
	Pick Up Wheels in Kemptville - 3 trips		0.75	\$85.00	\$63.75			
	Pick Up tires/passenger seat (chase location, wrong shipping address)		2.5	\$85.00	\$212.50			
	Deliver Vehicle to Airport		0.5	\$85.00	\$42.50			
	<b>Total Misc Labour</b>		<b>14.25</b>		<b>\$1,211.25</b>			
<b>Project Summary</b>								
		<b>Parts</b>					<b>\$2,550.96</b>	CDN
		<b>Shipping and Brokerage</b>					<b>\$1,179.86</b>	CDN
		<b>Labour</b>					<b>\$4,653.75</b>	CDN
<b>Total Project Cost</b>							<b>\$8,384.56</b>	
<b>Paid</b>								
	Paypal Transfer - 31Jan15						\$660.00	CDN
	Paypal Transfer - 9Feb15						\$1,000.00	CDN
	Paypal Transfer - 26Feb15						\$2,000.00	CDN
	Paypal Transfer - 28Mar15						\$1,000.00	CDN
		<b>Total Paid</b>					<b>\$4,660.00</b>	
		<b>Balance Owing</b>					<b>\$3,724.56</b>	