2014 Make / Model Volvo / VNM	VIN J	1998	Invoice	Date: 10-17-23
10-03-23 / 07:554M Delivery Date	4V4MC9EG0EN166729 92200V SD	Mileage 552794	Unit / Stock	Page 1 of 5 Color
Engine Model / Serial #	10-17-23	Var. T		P.O. Number
VLV D13 / D13/1039276	Transmission Model/Serial #	Re	Gen*GLC ar Axle Model / Se	erial #
1 DIAG TRANNY CUSTOMER S	Commence of the Commence of th		/	-IIdi#

CUSTOMER STATES UNIT WILL NOT COME OUT OF REVERSE. CAUSE: DIAG TRANNY

CORRECTION:

diagnosing transmission issues. pulled into the shop and performed gear engagement tests, found transmission not shifting into 2-3 gear and will need to be pulled. started pulling transmission form unit. pulled air lines from unit. pulled connectors and drive line. pulled rear output yoke. removed all brackets around bell housing and pulled transmission bellhousing bolts. removed transmission. pulled transmission out and removed shift housing from transmission and inspected gears. found no issues with gears or Syncros. inspected upper housing, found 2-3 shift fork shaft broken. found no other damage. unit will need shift control housing. will send quote in for housing

> TOTAL LABOR TOTAL PARTS TOTAL COMPUTER FEE

Qty Part Number Description List Unit Extended

1 22106416 CYLINDER 1 85002560 CLUTCH KI 1 MACHINE COMPUTER FE

2 TRANSMISSION CAUSE:

28/2024

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Total \*\*

Invoice Date: 10-17-23 License Make / Model Mileage Unit / Stock 4VAMC9EGOEN166729 Color 92200V SD Year 552794 complete Delivery Date Engine Hours Key Tag P.O. Number Service Writer 10-17-23 Open Date / Time 10-14-13 10-03-23 / 07:55AM Rear Axle Model / Serial # Transmission Model/Serial # Engine Model / Serial # VLV D13 / D13/1039276 Memo

TRANSMISSION INERTIA BRAKE

CORRECTION: pulled clutch and flywheel for inspection. do see wear on clutch and heat marks. would recommend clutch be replaced while transmission is down received new shift solenoid unit. pulled computer off old unit

installed onto new unit, made sure to use new gaskets. installed new gaskets on air passages, installed top cover onto transmission and torqued to spec. installed new air fittings onto cover and reinstalled airline. reconnected shift connector on transmission. washed off entire transmission for reinstallation. calibrated new clutch position

STARTED BY INSTALLING THE PILOT BEARING INTO THE FLYWHEEL, THEN INSTALLED FLYWHEEL INTO UNIT. MADE SURE TO USE BLUE LOCKTIGHT ON FLYWHEEL BOLTS. TORQUED BOLTS TO 44FTP. INSTALLED INSTALLATION TOOL FOR THE CLUTCH THEN INSTALLED CLUTCH INTO UNIT, MADE SURE TO BLUE LOCKTIGHT ON CLUTCH BOLTS AS WELL. REMOVED INSTALL TOOL, THEN STARTED INSTALLING THE TRANSMISSION. GOT THE TRANSMISSION ANGLED RIGHT AND GOT THE TRANSMISSION IN, USED BLUE LOCKTIGHT ON ALL TRANSMISSION BOLTS. TORQUED BOLTS TO 30FTP. INSTALLED BOTH COOLER LINES TOO TRANSMISSION COOLER, INSTALLED ROUND PIN CONNECTOR FOR THE TRANSMISSION AND SPEED SENSOR. GOT THE BATTERY CABLE LINES ALL ZIPPED TIED BACK WHERE THEY BELONG. REINSTALLED DRIVELINE WITH DRIVELINE BOLTS. LAST WAS TO INSTALL THE OLD DPF COVER WHICH WAS JUST 4 BOLTS. DID DOUBLE CHECK OF TRANSMISSION, LINES, OIL LINES, AND CONNECTORS. ALL WERE GOOD TO GO. AFTER TRANSMISSION WAS INSTALLED HOOKED UP VOLVO TODO A CLUTCH INSTALLTION PROGRAM, AFTER PROGRAMMING WAS FINISHED STARTED UNIT UP TO MOVE IT OUT THE SHOP. UNIT STILL DID NOT MOVE. UNIT HAD DIFFERENT CODES FOR SHIFTING AND COUNTERSHAFT INPUT. HAD TO REMOVE TRANSMISSION AGAIN SINCE THE CODES ARE FOR INTERNAL PROBLEMS. REMOVED BOTH TRANSMISSION COOLING LINES FROM COOLER, DISCONNECTED ALL ELECTRICAL FROM TRANSMISSION. SUPPORTED TRANSMISSION WITH JACK STAND, REMOVED ALL TRANSMISSION HOUSING BOLTS AND REMOVED TRANSMISSON FROM UNIT. pulled transmission from under unit and inspected. did notice that fluid gasket on inertia brake leaking. pulled apart and resealed. reinstalled. performed gear select procedure to make sure unit will operate correctly in truck. TEST DROVE

SHOPSIL

reinstalled transmission with Loctite on bell housing bolts. reinstalled harness and air line on unit. reinstalled driveline. reinstalled trans cooler lines and started unit. checked oil level and was OK. performed clutch calibration and sent unit out on test drive. put all core parts away. unit ran without issue. parked on line. unit

fear 2014	:: 10-17-23	ke / Model	VIN		11	Mileson	Unit / Stock	Color
	Make / Model Volvo / VNM				92200V SD		Omity Stock	TO A SECULAR SECURITIES S
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Open Date / Time Delivery Date		10-17-23	engine i	iours	Key lag	Gen*GLC	· 图7 在12-13年25日	
10-03-23 / 07:55AM 10-14-13			Transmission Model/Serial # Rea			ear Axle Model / S	erial#	
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	CAUSE:							
		ANKSHAFT SEAL					<b>福东</b> 亚洲海绵	
	CORRECT	ION: old rear main s	eal from unit.	installe	ed rear n	main seal too!	l and	
	pulled	led new seal.	Seal Wolf and			THE REAL PROPERTY.		
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Order: 5699

Invoice Date: 10-17-23 Make / Model License VIN 4V4MC9EG0EN166729 92200V SD Mileage Unit / Stock Volvo / VNM 2014 Trar 552794 181 Delivery Date Complete Open Date / Time **Engine Hours** Key Tag Service Writer Ra 10-03-23 / 07:55AM 10-14-13 10-17-23 Gen\*GLC (6 Transmission Model/Serial # Engine Model / Serial # Rear Axle Model / Serial # VLV D13 / D13/1039276 Memo

OTHER SUPPLIES-SVC DATA PROCESSING-SVC SALES TAX

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Page 4 of 5

Color

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WHEEL LUG NUTS NEED RETOURQUED AFTER 100 MILES.