



JPRO® DIAGNOSTIC REPORT

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VIN	1M1AN4GY5LM013848
Vehicle Make	Mack
Model	Anthem
Series	
Model Year	2020

Vehicle Components

Component	Description	Serial Number	Software Version	Network
Engine	Mack MP8	19130135	24629886 24674710 24674725	J1939 (High)/J1587 (Low)/15765 (CAN)
Transmission	Mack mDrive Transmission	N/A	N/A	J1939 (High)/15765 (CAN)
Brakes	Bendix EC-80 ESP+ ABS	6111192125	Z089860	J1939 (High)/15765 (CAN)
Instrument Cluster	VMAC IV ICM	91163161	23516228 23516230 23450979	J1939 (High)/J1587 (Low)
Vehicle ECU	VMAC IV VECU	19120171	23490901 23490988 23491027	J1939 (High)/J1587 (Low)
Lighting - Operator Controls	Mack Lighting - Operator Controls	N/A	23972943 23890914 23883597	J1939 (High)/J1587 (Low)
Transmission Shift Console Primary	Mack Gear Selector ECU	19085043	21833550 20714902 21833563	J1939 (High)/J1587 (Low)
Forward Road Image Processor	Bendix AutoVue® FLC20™ Camera	N/A	BX173150	J1939 (High)/15765 (CAN)
Headway Controller	Bendix Wingman® FLR21™ Radar Sensor	191601799	BX160703	J1939 (High)/15765 (CAN)
Web Portal Processor	Bendix SafetyDirect® Web Portal Processor	N/A	SDP NA-39.8-21-11.0	J1939 (High)/15765 (CAN)

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Vehicle Key Data Points

Description	Parameter Value	Description	Parameter Value
Avg Fuel Econ	6.40 mpg	Idle Fuel Used	2,862.40 gal
Battery Potential	9.50 volts	DPF Soot Level	Low
Total Idle Hrs	4,084.90 hrs	DPF Derate	Low
Idle Shutdown	Not Available	Total Engine Run Time	14,157.20 hrs
Road Speed Limit	70.00 mph	Cruise Spd Limit	65.00 mph
PTO Status	Not Available	Malfunction Indicator Lamp	On
Red Stop Lamp	On	Amber Warning Lamp	On
Protect Lamp	Off	Parking Brake Switch	Off
Engine Speed	0 rpm	DPF Lamp Command	Off
Exhaust System High Temperature Lamp Command	Off	ABS Control Status	Not Available
ABS Control Status, Trailer	Off	Odometer	570,188.30 mi
Engine Odometer	570,188.46 mi	Instrument Cluster Odometer	570,188.39 mi
Fuel	26%	Engine Oil	89%
Diesel Exhaust Fluid	88%		

Vehicle Issues

	20 Active Fault(s) Present
	Battery Voltage Low

Faults

Status	Component	Description	Lookup Code	FMI	Count
Active	Exhaust Emission Controller	SAE - Aftertreatment 1 Diesel Exhaust Fluid Pump Drive Percentage - Special Instructions #1	SPN 4375	14	2
Active	VMAC IV ICM	Axle #2 Lift Air Pressure - Voltage below normal or shorted to lower voltage	PID 7	4	4
Active	VMAC IV ICM	Vehicle speed - Abnormal update rate	PID 84	9	1
Active	VMAC IV ICM	ECU battery potential - Voltage below normal or shorted to lower voltage	PID 158	4	5

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Active	VMAC IV VECU	SEWS-Data link MID 166 SPEC-Fault on page 7 or 8 - Special instructions	PSID 247	14	1
Active	VMAC IV ICM	Data Link MID 219 - Faulty device or component	PSID 211	12	3
Active	Exhaust Emission Controller	Reductant Control Module Supply Voltage Circuit	P21CA00	N/A	2
Active	mDrive Transmission	Wheel-based Vehicle Speed, Signal invalid	U114286	N/A	2
Active	EC-80 ESP+ ABS	ECU DTC (A_F)	10-15	N/A	8
Active	EC-80 ESP+ ABS	Drive Axle Left WSS Signal Low at Drive Off (SPN 791 FMI 9 Blink Code 4-2)	442-140	N/A	1
Active	EC-80 ESP+ ABS	Drive Axle Right WSS Signal Low at Drive Off (SPN 792 FMI 9 Blink Code 5-2)	443-140	N/A	1
Active	Wingman® FLR21™ Radar Sensor	Brake Controller Signal Not Available - VDC2 Steer Angle (SPN 1807 FMI 9)	168	N/A	1
Active	Wingman® FLR21™ Radar Sensor	Brake Controller Signal Error - EBC2 LR1 Wheel (SPN 907 FMI 19)	121	N/A	1
Active	Wingman® FLR21™ Radar Sensor	Brake Controller Signal Error - EBC2 RR1 Wheel (SPN 908 FMI 19)	124	N/A	1
Active	Wingman® FLR21™ Radar Sensor	Brake Controller Signal Not Available - EBC5 Brake Use (SPN 2919 FMI 9)	130	N/A	1
Active	Wingman® FLR21™ Radar Sensor	EBC1 ABS Not Fully Operational (SPN 1243 FMI 2)	181	N/A	1
Active	Wingman® FLR21™ Radar Sensor	Brake Controller Signal Error - EBC5 XBR State (SPN 2917 FMI 19)	127	N/A	1
Active	Wingman® FLR21™ Radar Sensor	VDC1 VDC Not Fully Operational (SPN 1814 FMI 2)	182	N/A	1
Active	SafetyDirect® Web Portal Processor	Input Voltage is Too Low (SPN 1705 FMI 4)	168	N/A	10
Active	MP8	Turbocharger/Supercharger Boost Control "A" Supply Voltage Circuit, No additional information	P006E00	N/A	1
Inactive	VMAC IV VECU	CC set switch - Faulty device or component	SID 243	12	11
Inactive	VMAC IV VECU	CC enable switch - Faulty device or component	SID 244	12	11



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Inactive	VMAC IV VECU	Critical MSW Error or Improper Shutdown - Abnormal update rate	PSID 230	9	2
Inactive	VMAC IV VECU	Undocumented Fault - Contact Manufacturer for PPID 68 details	PPID 68	12	4
Inactive	VMAC IV VECU	Data Link MID 128 - Abnormal update rate	PSID 200	9	1
Inactive	Lighting - Operator Controls	Undocumented Fault - Contact Manufacturer for PSID 34 details	PSID 34	4	1
Inactive	Lighting - Operator Controls	Undocumented Fault - Contact Manufacturer for PSID 35 details	PSID 35	4	1
Inactive	Lighting - Operator Controls	Undocumented Fault - Contact Manufacturer for PSID 36 details	PSID 36	4	1
Inactive	Lighting - Operator Controls	Undocumented Fault - Contact Manufacturer for PSID 37 details	PSID 37	4	1
Inactive	Lighting - Operator Controls	Undocumented Fault - Contact Manufacturer for PSID 38 details	PSID 38	4	1
Inactive	Lighting - Operator Controls	Undocumented Fault - Contact Manufacturer for PSID 39 details	PSID 39	4	1
Inactive	Lighting - Operator Controls	Undocumented Fault - Contact Manufacturer for PSID 211 details	PSID 211	9	4
Inactive	Gear Selector ECU	Data Link MID 128 - Abnormal update rate	PSID 200	9	12
Inactive	Gear Selector ECU	Data Link MID 144 - Abnormal update rate	PSID 201	9	5
Inactive	Gear Selector ECU	Data Link MID 130 - Abnormal update rate	PSID 205	9	9
Inactive	Gear Selector ECU	Gear level position sensors - Faulty device or component	PSID 9	12	5
Inactive	VMAC IV ICM	After-treatment Reagent Level - Abnormal update rate	PPID 278	9	3
Inactive	VMAC IV ICM	Stalk module - Voltage below normal or shorted to lower voltage	PSID 56	4	1
Inactive	VMAC IV ICM	LIN subnet 2 - Abnormal update rate	PSID 166	9	1
Inactive	VMAC IV ICM	Data Link MID 144 - Abnormal update rate	PSID 201	9	1
Inactive	VMAC IV ICM	Data Link MID 219 - Abnormal update rate	PSID 211	9	1
Inactive	VMAC IV ICM	Data Link MID 248 - Faulty device or component	PSID 242	12	5
Inactive	MP8	Lost Communication with NOx Sensor A, No additional information	U029D00	N/A	1
Inactive	MP8	Lost Communication with NOx Sensor B, No additional information	U029E00	N/A	1
Inactive	MP8	Lost Communication with Reductant Quality Module, No Sub Type Information	U02A200	N/A	1
Inactive	MP8	Intake Air Heater A Circuit Open, No additional information	P054300	N/A	1



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Inactive	MP8	Intake Air Heater "B" Control, Circuit open	P260513	N/A	1
Inactive	MP8	Lost Communication With PM Sensor, No Sub Type Information	U02A300	N/A	1
Inactive	MP8	Engine Coolant Level Sensor/Switch, Circuit open	P255613	N/A	1
Inactive	MP8	Engine Coolant Level Low, No additional information	P256000	N/A	1
Inactive	MP8	Intake Air Heater "A" Circuit Range/Performance, Actuator Stuck Off	P26047F	N/A	1
Inactive	MP8	Intake Air Heater B Circuit Range/Performance, Actuator Stuck Off	P26067F	N/A	1
Inactive	Exhaust Emission Controller	System Voltage Low	P056200	N/A	1
Inactive	mDrive Transmission	Tank Air Pressure Sensor (SEPrSA), Signal amplitude greater than maximum	P105422	N/A	5
Inactive	mDrive Transmission	Tank Air Pressure Sensor (SEPrSA), Signal amplitude less than minimum	P105421	N/A	4
Inactive	mDrive Transmission	Clutch Plate Load, Circuit/component protection time-out	P106063	N/A	1
Inactive	mDrive Transmission	Brake Switch Status, Unexpected operation	P105594	N/A	4
Inactive	mDrive Transmission	Battery Power, Circuit voltage below threshold	U300316	N/A	1
Inactive	mDrive Transmission	Mainshaft and Countershaft Sensor Supply Circuit, Circuit Current Below Threshold	P109F18	N/A	2
Inactive	EC-80 ESP+ ABS	ECU DTC (1_D1)	1-209	N/A	1
Inactive	EC-80 ESP+ ABS	Battery Voltage Too Low (SPN 168 FMI 4 Blink Code 6-1)	60-80	N/A	7
Inactive	EC-80 ESP+ ABS	J1939 CCVS Timeout or Invalid Signal (SPN 639 FMI 2 Blink Code 11-23)	220-106	N/A	1
Inactive	AutoVue® FLC20™ Camera	Low Battery Voltage (SPN 1705 FMI 4)	2	N/A	4
Inactive	AutoVue® FLC20™ Camera	J1939: Brake Controller Signal Invalid - VDC2 Steering Angle Sensor (SPN 1807 FMI 9)	176	N/A	2
Inactive	AutoVue® FLC20™ Camera	J1939: Brake Controller Signal Missing - VDC2 Lateral Accel (SPN 1809 FMI 9)	192	N/A	2
Inactive	AutoVue® FLC20™ Camera	J1939: Brake Controller Signal Invalid - VDC2 Yaw Rate (SPN 1808 FMI 9)	190	N/A	2
Inactive	AutoVue® FLC20™ Camera	J1939: Vehicle Controller Signal Error - VP37 Wiper Status (SPN 516104 FMI 19)	168	N/A	1



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Inactive	Wingman® FLR21™ Radar Sensor	ABS Tire Size Needs Recalibration (SPN 1069 FMI 13)	185	N/A	1
Inactive	Wingman® FLR21™ Radar Sensor	Battery voltage too low (SPN 886 FMI 4)	4	N/A	2
Inactive	Wingman® FLR21™ Radar Sensor	Engine Controller Message Missing - CCVS1 (SPN 527 FMI 14)	30	N/A	1
Inactive	SafetyDirect® Web Portal Processor	Input Voltage Low (SPN 1705 FMI 4)	169	N/A	10