

# Mitsubishi PowerTrain Actuators

## BMU

Battery balancer unit  
Battery cooling fan PWM

## ECM

2C or 2-4 Solenoid Mode Control  
A/C relay  
AC Compressor Clutch Relay CNTL  
Alternator Field Duty-Cycle  
Auto Shutdown Relay Control  
Condensor Fan High  
Condensor Fan Low  
Cooling fan  
DM Muffler  
Double Start Override Relay CNTL  
Dual mode muffler solenoid  
EGR Sol. Valve  
EGR Sol. Valve  
EGR Valve Solenoid Duty Cycle  
EMCC VLP Solenoid  
Engine room fan relay  
ETV Fail Safe  
EVAP.emission purge Sol.valve  
EVAP.emission ventilation Sol.  
F/P Speed Change  
Fuel Cylinder #1 Control State  
Fuel Cylinder #2 Control State  
Fuel Cylinder #3 Control State  
Fuel Cylinder #4 Control State  
Fuel Cylinder #5 Control State  
Fuel Cylinder #6 Control State  
Fuel Pressure Solenoid  
Fuel Pump  
Fuel Pump Relay Control State  
IAC Valve Solenoid Control State  
IG.5° BTDC  
Ignition timing 5 BTDC  
Injector #1  
Injector #2  
Injector #3  
Injector #4  
Injector #5  
Injector #6  
Injector #7  
Injector #8  
Intake Air Mtr  
Intake Manifold Shrt Runner VAL  
Intake Manifold Tuning VAL CNTL  
Leak Mon Mode  
Line Off Leak  
LR Solenoid Mode Control  
OCV  
OD Solenoid Mode Control

Oil control valve  
Oxygen Sensor 1/1 HTR Duty-Cycle  
Oxygen Sensor 1/2 HTR Duty-Cycle  
Oxygen Sensor 2/1 HTR Duty-Cycle  
Oxygen Sensor 2/2 HTR Duty-Cycle  
Proportional PURGE Solenoid  
Purge Cont. Solenoid  
Purge Sol. High  
Purge Sol. Vent  
PWM radiator fan  
Radiator Cooling Fan PWM Control  
Radiator Cooling Fan PWM DutyCyl  
Radiator Cooling Fan RLY #1 CNTL  
Radiator Cooling Fan RLY #2 CNTL  
Radiator Fan High  
Radiator Fan Low  
SAS Mode  
Speed CNTL Servo Power RLY CNTL  
Speed CNTL Vacuum VAL Sol. CNTL  
Speed CNTL Vent VAL Sol. CNTL  
TCL Vac. Sv  
TCL Vent. Sv  
Underdrive Solenoid Mode Control  
Variable intake solenoid  
VVT oil control valve  
W/Gate Sol.  
Waste Gate solenoid valve

## EV-ECU

12VDCDC shutdown  
Back light relay actuate  
Brake warning light actuate  
Buzzer actuate  
COMP/HTR power supply relay  
Motor actuate  
Motor inverter shutdown  
OBC power supply relay  
Radiator fan 1 actuate  
Radiator fan 2 actuate  
Water pump actuate  
Water pump actuate 2  
Water pump power supply relay

## MCU

Condenser discharge

## Shift Lever

Back up light  
Shift indicator

## TCM

1st Shift Lamp  
2nd indicator light

2nd Shift Lamp  
2nd Sol.  
3rd Shift Lamp  
4th indicator light  
4th Shift Lamp  
5th Shift Lamp  
D/C Sol.  
DCC Sol.  
ELC Relay  
Inv2 Cont. Stp  
Invecs 2  
INVECS-2  
L/R Sol.  
Low-reverse solenoid valve  
LR Sol.  
O/D Sol.  
Overdrive solenoid valve  
PCSV  
Reduction solenoid valve  
Second solenoid valve  
Shift Lamp #1  
Shift Lamp #2  
Shift Lamp #3  
Shift Lamp #4  
Shift Lamp #5  
Sol. #2  
STD. Shift Pat.  
TCC solenoid valve  
TCM control relay  
Underdrive Sol.

# Mitsubishi Body Actuators

Alarm buzzer  
Drive motor  
Electromagnetic Clutch  
Engine SW/Power SW (Control)  
Engine SW/Power SW (LED On)  
Hazard answer back request  
Power latch motor (latch open)  
Standby request output  
System fail request output  
TEMP. fail request output  
Vehicle Speed Off Set 65 Mode  
Warning request output

## A/C

A/C compressor drive  
A/M 0%  
A/M 100%  
A/M 50%  
A/T Lock Up open request  
Air conditioning output  
Air conditioning switch  
Air mix damper motor  
Air outlet c/o damper  
Air purge mode  
As air mix damper motor  
Clutch Off  
Clutch On  
Condenser Fan  
Defogger indicator  
Defroster  
Dr air mix damper motor  
Face  
Fan High  
Fan Low  
Fan Medium  
Fan Off  
Foot  
Fresh  
Front blower Fan  
Frost protection  
Idle Stop cancellation request  
Idle Stop Disable flag  
Idle Up Off  
Idle Up On  
Idle Up request  
In/out changeover damper  
In/out select damper  
In/out select damper SW  
LCD backlight  
LCD/indicator  
MAX Cool request  
MAX switch output

PTC heater  
PTC heater drive request  
Rear cooler output  
Rear Cooler Relay Off  
Rear Cooler Relay On  
Rear defogger indicator  
Rear defogger switch  
Rear PTC heater  
Recirc  
Rheostat  
Switch illumination  
Temperature dial position

## COMP&HT

Battery cooling flap motor  
Cooling Fan(Climate)  
ELC.water heater Test Mode  
In/out select damper

## Display

Back Light  
Lcd

## HFM

Off hook switch  
On hook switch  
VR switch

## HVAC

A/C Indicator  
A/M 0%  
A/M 100%  
A/M 50%  
Clutch Off  
Clutch On  
Defrost/Floor Actuator Position  
Defroster  
EBL Indicator  
Face  
Fan High  
Fan Low  
Fan Medium  
Fan Off  
Foot  
Fresh  
Front Blend Actuator Position  
Front Blower Motor  
Panel Door Actuator Position  
Recirc  
Recirculation Door Act. Position  
VFD Display

## Immobilise

Outer buzzer  
Outer buzzer - Off  
Outer buzzer - Pattern1  
Outer buzzer - Pattern2  
Outer buzzer - Pattern3  
Outer buzzer - Pattern4  
Outer buzzer - Pattern5  
Outer buzzer - Pattern6  
Outer buzzer - Warning1  
Outer buzzer - Warning2

## Meter

A/L actuator  
A/T position indicator  
Buzzer  
Buzzer - Back buzzer  
Buzzer - beep(A/C)1  
Buzzer - beep(A/C)2  
Buzzer - beep(A/C)3  
Buzzer - beep(AUDIO)1  
Buzzer - beep(AUDIO)2  
Buzzer - beep(AUDIO)3  
Buzzer - beep(AUDIO)4  
Buzzer - beep(AUDIO)5  
Buzzer - beep(DISP)1  
Buzzer - beep(DISP)2  
Buzzer - beep(DISP)3  
Buzzer - beep(DISP)4  
Buzzer - beep(DISP)5  
Buzzer - beep(DISP)6  
Buzzer - beep(NAVI)1  
Buzzer - beep(NAVI)2  
Buzzer - beep(NAVI)3  
Buzzer - beep(NAVI)4  
Buzzer - beep(NAVI)5  
Buzzer - beep(NAVI)6  
Buzzer - Brake reminder buzzer  
Buzzer - Buzzer(cutting in LCD)  
Buzzer - Condition buzzer1  
Buzzer - Condition buzzer2  
Buzzer - Digital speed SW buzzer  
Buzzer - Door ajar warning buzzer  
Buzzer - ETACS answer back buzzer  
Buzzer - ETACS setting buzzer  
Buzzer - Frost warning buzzer  
Buzzer - Headlight reminder buzzer  
Buzzer - IG nob reminder buzzer  
Buzzer - Key reminder buzzer  
Buzzer - Manner SW buzzer  
Buzzer - Meter SW long push buzzer  
Buzzer - Meter SW push buzzer  
Buzzer - Paddle SHFT.CAN.prohibit  
Buzzer - Power gate buzzer  
Buzzer - Pre-security alarm buzzer  
Buzzer - Rest reminder buzzer1

Buzzer - Rest reminder buzzer2  
 Buzzer - Seatbelt reminder buzzer  
 Buzzer - Security alarm buzzer  
 Buzzer - Shift cancel buzzer  
 Buzzer - Speed alarm buzzer  
 Buzzer - Speed alarm buzzer for GCC  
 Buzzer - Sunroof buzzer  
 Buzzer - Turn signal buzzer  
 Door Locks  
 Energy usage indicator  
 Engine coolant Temp  
 Engine coolant Temp. Gauge  
 Fuel Gauge  
 Fuel Gauge Input  
 Fuel Gauge Input: Empty  
 Fuel Gauge Input: Full  
 Fuel Gauge Input: Half  
 Fuel Gauge Target Value  
 Fuel Gauge Target Value: Empty  
 Fuel Gauge Target Value: Full  
 Fuel Gauge Target Value:1/2  
 Fuel Gauge(Target)  
 Indicator Light 1  
 Indicator Light 2  
 Indicator Light1  
 Indicator Light2  
 Indicator1  
 Indicator1 - A/T Oil TEMP.  
 Indicator1 - ABS  
 Indicator1 - ASC/TCL Off  
 Indicator1 - ASC/TCL OP.  
 Indicator1 - Brake  
 Indicator1 - Charge  
 Indicator1 - Check Engine  
 Indicator1 - Cruise control  
 Indicator1 - Diesel GLOW  
 Indicator1 - Door IND.(flipper glass)  
 Indicator1 - Door indicator  
 Indicator1 - Door indicator(FL)  
 Indicator1 - Door indicator(FR)  
 Indicator1 - Door indicator(RL)  
 Indicator1 - Door indicator(RR)  
 Indicator1 - Door indicator(Tailgate)  
 Indicator1 - Driver seatbelt  
 Indicator1 - EPS  
 Indicator1 - Front fog light  
 Indicator1 - Frost warning  
 Indicator1 - Fuel Warning (step1)  
 Indicator1 - GDI ECO  
 Indicator1 - High beam  
 Indicator1 - Oil pressure  
 Indicator1 - PTC heater  
 Indicator1 - Rear fog light  
 Indicator1 - Seatbelt  
 Indicator1 - SRS indicator  
 Indicator1 - Turn signal (ALL)  
 Indicator1 - Turn signal (LH)  
 Indicator1 - Turn signal (RH)

Indicator1 - Water temp. (Cool)  
 Indicator1 - Water temp. (HOT)  
 Indicator2  
 Indicator2 - ASC/TCL failure  
 Indicator2 - ASC/TCL status info  
 Indicator2 - Back corner sensor  
 Indicator2 - Corner sensor Off  
 Indicator2 - FL corner sensor  
 Indicator2 - FR corner sensor  
 Indicator2 - Front corner sensor  
 Indicator2 - Headlight auto leveling  
 Indicator2 - Immobilizer  
 Indicator2 - Oil level  
 Indicator2 - PA. AIRBAG Off  
 Indicator2 - RL corner sensor  
 Indicator2 - RR corner sensor  
 Indicator2 - Service reminder  
 Indicator2 - Tire Pressure  
 Indicator2 - Trailer  
 Indicator3  
 Indicator3 - 4WD  
 Indicator3 - 4WD failure  
 Indicator3 - 4WD-Lock  
 Indicator3 - Camera AUTO  
 Indicator3 - Car symbol  
 Indicator3 - Fuel filter  
 Indicator3 - Fuel Warning (step2)  
 Indicator3 - Hood indicator  
 Indicator3 - PA. Seatbelt  
 Indicator3 - Position light  
 Indicator3 - Positionlight  
 Indicator3 - Rest reminder  
 Indicator3 - Speed alarm  
 Indicator3 - Washer fluid level warning  
 Indicator4  
 Indicator4 - 2WD  
 Indicator4 - 4WD Oil Temp  
 Indicator4 - A/T failure (Symbol)  
 Indicator4 - ACD mode(GRAVEL)  
 Indicator4 - ACD mode(SNOW)  
 Indicator4 - ACD mode(TARMAC)  
 Indicator4 - AFS/ACL failure  
 Indicator4 - AFS/ACL Off  
 Indicator4 - Air purifier  
 Indicator4 - ASC/TCL failure  
 Indicator4 - AWC control display  
 Indicator4 - Brake reminder  
 Indicator4 - ESS failure  
 Indicator4 - F.A.S.T.  
 Indicator4 - F.A.S.T. 1(Low battery)  
 Indicator4 - F.A.S.T. 2(No key)  
 Indicator4 - F.A.S.T. 3(IG nob)  
 Indicator4 - F.A.S.T. 4(Take out key)  
 Indicator4 - F.A.S.T. 5(Take out key)  
 Indicator4 - F.A.S.T. 6(Lock disable)  
 Indicator4 - F.A.S.T. 7(Lock disable)  
 Indicator4 - F.A.S.T. 8(Lock disable)  
 Indicator4 - F.A.S.T. 9(System error)

Indicator4 - Headlight reminder  
 Indicator4 - Key reminder  
 Indicator4 - Safety alert  
 Indicator4 - Taillight power supply  
 Meter illumination  
 Outside temperature  
 Panel Illumination  
 Rheostat  
 Rheostat PWM Duty  
 Rheostat PWM Duty:0%  
 Rheostat PWM Duty:100%  
 Rheostat PWM Duty:50%  
 Shift indicator  
 Shift Indicator - A/T position IND.:SNOW  
 Shift Indicator - A/T position IND:Blank  
 Shift Indicator - A/T position IND:Fail  
 Shift Indicator - A/T position indicator:1  
 Shift Indicator - A/T position indicator:2  
 Shift Indicator - A/T position indicator:3  
 Shift Indicator - A/T position indicator:4  
 Shift Indicator - A/T position indicator:5  
 Shift Indicator - A/T position indicator:6  
 Shift Indicator - A/T position indicator:A  
 Shift Indicator - A/T position indicator:D  
 Shift Indicator - A/T position indicator:D1  
 Shift Indicator - A/T position indicator:D2  
 Shift Indicator - A/T position indicator:D3  
 Shift Indicator - A/T position indicator:D4  
 Shift Indicator - A/T position indicator:D5  
 Shift Indicator - A/T position indicator:D6  
 Shift Indicator - A/T position indicator:Ds  
 Shift Indicator - A/T position indicator:Lo  
 Shift Indicator - A/T position indicator:N  
 Shift Indicator - A/T position indicator:P  
 Shift Indicator - A/T position indicator:R  
 Shift Indicator - A/T position indicator:Up  
 Shift indicator light  
 speedometer  
 Tachometer  
 Tachometer:0r/min  
 Tachometer:2000r/min  
 Tachometer:5000r/min  
 Telltale - 4WD  
 Telltale - Airbag  
 Telltale - Brake  
 Telltale - Cruise  
 Telltale - Engine Temp  
 Telltale - ESP/BAS  
 Telltale - Fog Lamp  
 Telltale - High Beam  
 Telltale - Low Fuel  
 Telltale - MIL  
 Telltale - Seat Belt  
 Telltale - Tow Haul  
 Telltale - Trans Temp  
 Telltale - Turn Left  
 Telltale - Turn Right  
 Turn On all Telltales

Turn On all VF Segments  
Vehicle Speed  
Vehicle Speed:0km/h  
Vehicle Speed:100km/h  
Vehicle Speed:40km/h  
Water Temp  
Water Temp:0°C  
Water Temp:126°C  
Water Temp:85°C  
Water temperature Gauge

## MiEV Remo

Rear-Defogger  
Reserved-charging signal

## OSS

Engine switch(Control)  
Engine switch(LED On)

## SRS

Erase All  
P/Seat belt Warning Lamp Cut Off  
Passenger Seat belt Warning Lamp  
Passenger seatbelt warning light  
Passenger SRS Off Lamp  
Passenger's SRS Off light  
Passenger's SRS On light  
SRS Warning Lamp

## SWS

Door Lock  
Front Wiper  
Lamp  
Light  
Stop Actuator

## Topstack

Buzzer  
Buzzer On  
Indicator  
Indicator On  
Quarter P/W  
Quarter P/W(LH) down  
Quarter P/W(LH) up  
Quarter P/W(RH) down  
Quarter P/W(RH) up  
Solenoid valve  
Topstack activation

# Mitsubishi Chassis Actuators

## 4WD

4WD mode  
4WD torque of coupling control

## 4WS/EPS

Input vehicle speed

## ABS

ABS Air Bleed #1  
ABS Air Bleed #2  
ABS Fail Lamp  
ABS Signal  
Actuator #1  
Actuator #2  
Actuator1  
Actuator2  
Air Bleed #1  
Air Bleed #2  
Air Bleeding  
Brake Warning Lamp  
Diag Erase  
Emission Gas Mode  
Eng. Trq Down  
Engine TCL Drive  
ESS test mode  
FL ABS Valve  
FL M-ASTC Sig  
FL M-ASTC V  
FL Solenoid Valve  
FL TCL Valve  
FL Valve  
FL Valve + Meter  
FL Valve + Motor  
FL Valve + Mtr  
FL Valve A  
FL Valve M  
FL Wheel ABS Drive  
FL Wheel TCL Drive  
FR ABS Valve  
FR M-ASTC SIG  
FR M-ASTC V  
FR Solenoid Valve  
FR TCL Valve  
FR Valve  
FR Valve + Motor  
FR Valve A  
FR Valve M  
FR Wheel ABS Drive  
FR Wheel TCL Drive  
G Sensor - 0  
G Sensor Check  
G SNSR CHK  
G SNSR:0

HBB Buzzer  
HBB Motor  
Inspect Mode  
Left Front Inlet Valve(NO)  
Left Front Outlet Valve(NC)  
Left Rear Inlet Valve(NO)  
Left Rear Outlet Valve(NC)  
Low Pressure Feed Valve 1(NC)  
Low Pressure Feed Valve 2(NC)  
M-ASTC Fail  
M-ASTC OFF LP  
M-ASTC OP Lamp  
MEMORY CLEAR  
Motor  
Motor Relay  
Pump  
Rear Solenoid Valve  
Rear Valve A  
Rear Valve M  
Right Front Inlet Valve(NO)  
Right Front Outlet Valve(NC)  
RL ABS Valve  
RL M-ASTC Sig  
RL M-ASTC V  
RL Solenoid Valve  
RL Valve + Motor  
RL Wheel ABS Drive  
RL Wheel TCL Drive  
RR ABS Valve  
RR Inlet Valve (Normally Open)  
RR M-ASTC Sig  
RR M-ASTC V  
RR Outlet Valve(NC)  
RR Solenoid Valve  
RR Valve + Motor  
RR Wheel ABS Drive  
RR Wheel TCL Drive  
Solenoid State  
ST Sensor - 0  
ST SNSR:0  
Stoplight On  
T/F SW TEST  
TCL Valve L  
TCL Valve R  
Traction Ctrl Outlet Valve 1(NO)  
Traction Ctrl Outlet Valve 2(NO)  
Valve Relay  
Yaw Rate Sensor - 0  
Yaw Sensor Check

## ACD

Air Bleed-ACD  
Air Bleed-AYC  
Control Off  
Line CHEK-ACD

Line CHEK-AYC  
Motor Drive  
Oil Level  
OP CHECK L  
OP CHECK R  
OP CHECK-ACD

## ASC

Electric Motor unit TCL Drive  
Emission Gas Mode  
Engine TCL Drive  
ESS test mode  
FL Wheel ABS Drive  
FL Wheel TCL Drive  
FR Wheel ABS Drive  
FR Wheel TCL Drive  
RL Wheel ABS Drive  
RL Wheel TCL Drive  
RR Wheel ABS Drive  
RR Wheel TCL Drive

## ASTC

ABS Fail Lamp  
Actuator #1  
Actuator #2  
Air Bleed #1  
Air Bleed #2  
Brake Warning Lamp  
FL ABS Valve  
FL M-ASTC Sig  
FL M-ASTC V  
FR ABS Valve  
FR M-ASTC Sig  
FR M-ASTC V  
G Sensor:0  
HBB Buzzer  
HBB Motor  
M-ASTC Fail  
M-ASTC Op Lamp  
Memory Clear  
RL ABS Valve  
RL M-ASTC Sig  
RL M-ASTC V  
RR ABS Valve  
RR M-ASTC Sig  
RR M-ASTC V  
T/F SW TEST

## AWD

4WD mode  
4WD torque of coupling control

## EPS

Input vehicle speed:50km/h

## FCM

Adjustable Pedal State  
Diesel Cabin Heat 1 State  
Diesel Cabin Heat 2 State  
Front Fog Lamps  
Glass Washer State  
Headlamp Washer State  
High Speed Rad Fan State  
Horn State  
Hydraulic Fan State  
Ignition Run State  
Ignition Run/Acc/PAD State  
Ignition Run/Acc/SPAD State  
Ignition Unlock/Run/Start State  
Left Front Turn Lamp State  
Left High Beam State  
Left Low Beam State  
Left Rear Turn Lamp State  
Left TT Turn/Stop Lamp State  
Low Speed Rad Fan State  
Park Lamp State  
Power Inverter Output  
Rear Defrost State  
Rear Fog Lamps  
Rear I-Wipe State  
Reverse Lamp State  
Right Front Turn Lamp State  
Right High Beam State  
Right Low Beam State  
Right Rear Turn Lamp State  
Right TT Turn/Stop Lamp State  
Run (Remote Start) State  
Run/Start (Remote Start) State  
Start (Remote Start) State  
T-Case Brake State  
T-Case Mode/Position (Custom)  
T-Case Mode/Position (Standard)  
T-Case Motor A Duty Cycle  
T-Case Motor B Duty Cycle  
Wiper Hi/Low State  
Wiper On/Off State

## HBB

Buzzer  
Buzzer Check  
Motor

## SS4

F/W Solenoid  
Shift Normal  
Shift Reverse

## SS4/4WD

Air Bleed-ACD

Air Bleed-AYC  
Control Off  
F/W Solenoid  
Line CHEK-ACD  
Line CHEK-AYC  
Motor Drive  
Oil Level  
OP CHECK L  
OP CHECK R  
OP CHECK-ACD  
Shift Normal  
Shift Reverse

## TCL

Engine TCL Drive  
FL Wheel ABS Drive  
FL Wheel TCL Drive  
FR Wheel ABS Drive  
FR Wheel TCL Drive  
RL Wheel ABS Drive  
RR Wheel ABS Drive  
TCL Throttle

## TPMS

Indicator CHK