

06<sup>th</sup> December 2021

**Channel Enumeration – V1.0 – v1.690.1(1)**

**autoStartState (EVENT)**

OFF(0), ENABLED(1), ARMED(2), STARTING(3), FAILED(4), CRANKING(5), CLUTCH(6)

**calSelect (EVENT)**

*(Enumeration true for other multi-position 'select' switches, ALS, GC, Pit TC)*

CAL01(0), CAL02(1), CAL03(2), CAL04(3), CAL05(4), CAL06(5), CAL07(6), CAL08(7), CAL09(8), CAL10(9), CAL11(10), CAL12(11)

**calOverrideDecision (EVENT)**

OK(0), ALREADY ACTIVE(1), RE-USE TOO SOON(2), GEAR TOO LOW(3), RPM TOO LOW(4), LATG TOO HIGH(5), NO USES LEFT(6), NO TIME LEFT(7), NOT PERMITTED(8), PIT LIMIT ACTIVE(9), FCY LIMIT ACTIVE(10)

**clIEnable (EVENT)**

DISABLED(0), BANK1(1), BANK2(2), BOTH(3)

**dbw1Select (EVENT)**

OFF(0), NORMAL(1), LIMP MODE MIN(2), GEAR CUT MLT(3), ENGINE MODE MIN(4), ALS MIN(5), IDLE MIN(6), LAUNCH MIN(7), START MAX(8), LIMP MODE MAX(9), CAL SWITCH MAX(10), PIT LIMIT MAX(11), GEAR BLIP MIN(12), DIP MAX(13), LAUNCH MAX(14), MAP MAX(15), AUTO SHIFT MAX(16), REV LIMIT(17), GEAR LEARN(18), POPOFF RESEAT(19), CM MAX(20), DRV MIN(21), WGC MAX(22), TEST OVERRIDE(23)

**engineEnable (EVENT)**

OK(0),  
ENABLE SWITCH OFF(1), SLAVE 1 COMMS OUT(2), SLAVE 2 COMMS OUT(3), BAT HIGH(4), EOP START(5), CAN ENABLE OFF(6), TPS START(7), AUTO START(8), FP START(9), DIP START(10), SENSOR WARNING LEVEL(11), PDU ISSUE(12), AUTO IN R/D(13), CAL SWITCH(14), PPS START(15), PPS EXTERNAL(16), EOP TRIP(100), CCP TRIP(101), EOT TRIP(102), ECT TRIP(103), FP TRIP(104), DATE/TIME TRIP(105), VBAT TRIP(106), LEAN TRIP(107), ACT TRIP(108), BPD/TPS TRIP(109), DBW TRIP(110), ECP TRIP(111)

### fan1 (EVENT)

OFF(0), ON(1), RUN ON(2), DISABLED(100)

### gear (EVENT)

UNKNOWN(0), REVERSE(1), NEUTRAL(2), FIRST(3), SECOND(4), THIRD(5), FOURTH(6), FIFTH(7), SIXTH(8), SEVENTH(9), EIGHTH(10)

### gearBlipState (EVENT)

DISABLED(0), IDLE(1), CLEARING(2), MASKED(3), RETURN(4), ACTIVE(100), TRAIL(101), DOG PREP(102)

### gearCutState (EVENT)

DISABLED(0), IDLE(1), CLEARING(2), MASKED(3), ACTIVE(100), LEADING(101), OL MAIN(102), CL MAIN(103), CL DOG KICK(104), RAMP IN(105), DOG PREP(106), TRAILING(107)

### gearPreBlipState (EVENT)

No Units

IDLE(0), ARMED(1), ACTIVE(2), TRAIL(3)

### gearShiftDecision (EVENT)

No Units

OK(0), ALREADY IN TOP(1), REQ CLUTCH FROM N(2), REQ CLUTCH FROM R(3), ALREADY IN R(4), REQ CLUTCH FROM 1 AT HIGH RPM(5), REQ DETENT FOR R(6), RPM TOO HIGH(7), TPS TOO HIGH(8), VEHICLE SPEED TOO HIGH(9), GSP TOO LOW(10), REQ CLUTCH IN PITSTOP(11), REQ WOW FROM N(12), WHEEL SPIN NEG(13)

### gearShiftDirection (EVENT)

UP(0), DOWN(1)

### gearShiftState (EVENT)

No Units

MANUAL(0), AUTO IDLE(1), AUTO UPSHIFT(2), AUTO DOWNSHIFT(3), AUTO CLEARING(4), AUTO POSITIVE RETURN(5), AUTO MASKED(6), AUTO DOWNSHIFT STACKED(7), DISABLED(100)

### launchState (EVENT)

OFF(0), ON(1), CLEARING(2), DISABLED(100)

### **limpMode (EVENT)**

OFF(0), LIMP SWITCH ON(1), ECT COLD(2), EOT COLD(3), SENSOR WARNING LEVEL(4), AUTO TRANS(5), EOP TRIP(100), CCP TRIP(101), KNOCK SHUTDOWN(102), EOT TRIP(103), ECT TRIP(104), FP TRIP(105), PREIGN SHUTDOWN(106), TIME ON LOAD LIMIT(107), TRQ LIM TRIP(108), VVT FAIL(109), VBAT TRIP(110), LEAN TRIP(111), ACT TRIP(112), ECP TRIP(113)

### **masterState1 / masterState2 (EVENT)**

IDLE(0), REQUIRED(1), FIND(2), CONFIG(3), PRIME(4), ACTIVE(5), FAIL(6), IN-CFG-TX(7), IN-CFG-RX(8), OUT-CFG-TX(9), OUT-CFG-RX(10), FREQ-CFG-TX(11), FREQ-CFG-RX(12)

### **paddleSwitch (EVENT)**

NONE(0), DOWN(1), UP(2), BOTH(3)

### **pitLimitActive (EVENT)**

IDLE(0), ACTIVE(1), ACTIVE\_OUT(2), ACTIVE\_IN(3)

### **pduA\_HSXX\_, pduB\_HSXX\_, pduC\_HSXX\_ (Freq)**

OFF(0), ON-H(1), INRUSH-H(2), ALARM(3), SHORT-H(100), FUSE-H(101), INRUSHFUSE-H(102), LOWCURRENT-H(103), PWRVLOW(104), BTHIGH(105), TEAMTRIP(200)

### **ppsLearnState (EVENT)**

IDLE(0), ENABLING(100), LEARNING(200), SUCCEEDED(500), FAILED(600), NOT LEARNED(700)

### **runMode (EVENT)**

INITIAL(0), PREINJECT(1), STOP(2), CRANK(3), RUN(4)

### **syncFault (EVENT)**

NONE(0), LONG TOOTH GAP(1), SHORT TOOTH GAP(2), TIMER OVERFLOW(3), CAM ERROR(4), UNKNOWN(5), TOOTH TIMEOUT(6), 720 SYNC TIMEOUT(7), SENSOR SWITCH(8)

### **syncState (EVENT)**

STOP(0), TURN(1), 360(2), 720(3)

**tpsClosed (EVENT)**

OPEN(0), CLOSED(1)

**trqFuelMitSrc, trqFuelSevSrc, trqFuelMaxSrc, trqFuelRtdSrc, trqFuelSevSrc (Freq)**

NONE(0), GEAR CUT(1), REV LIMIT(2), OVERRUN(3), PIT LIMIT(4), MAP LIMIT(5), TURBO SPEED LIMIT(6), TRACTION CONTROL(7), HIGH FUEL PRESSURE(8), LAUNCH LIMIT(9), ANTI LAG(10), TORQUE LIMIT(11), BPD/TPS CUT(12), EMISSIONS(13), ENGINE ENABLE(14), GEAR BLIP(15), DW(16), CM(17)

**wgPDSelect1 (Freq)**

MAP(0), PRP(1), TURBO(2)

**wgcStrategyActive (EVENT)**

STANDARD(2), WGP-BASED(1)