

General

General Information

System Name	MY600
SCC	\$FB01
Diagnostic Communication Type	UDS on CAN
OBD-2	X
Communication Speed (250/500kbps)	500kbps
ECU Address (Physical)	\$03
ECU Address (Functional)	\$33
Tester Address	\$F1

Supported Diagnostic Service

Diagnostic Service Name	Hex	Support
Diagnostic and Communication Management functional unit		
Diagnostic Session Control	\$10	X
Default Session – Positive Response Required	\$01	X
Extended Diagnostic Session – Positive Response Required	\$03	X
Security Access	\$27	X
Request Seed – Positive Response Required	\$01	X
Send Key – Positive Response Required	\$02	X
Tester Present	\$3E	X
Positive Response Required	\$00	X
No Positive Response Required	\$80	X
Data Transmission functional unit		
Read Data By Identifier	\$22	X
Vehicle Manufacture Specific -Data	\$01 60 - \$CF FF	X
Network Configuration Data For Tractor Trailer Application	\$F0 00 - \$F0 0F	-
Diagnostic Variant Code (Read SCC)	\$F1 0C	X
Hardware Part Number	\$F1 18	X
Software Part Number	\$F1 28	X
ECU Part Number	\$F1 38	X
Hardware Version Information	\$F1 50	X
Software Version Information	\$F1 51	X
Hardware Supplier Identifier	\$F1 54	X
Software Supplier Identifier	\$F1 55	-
Read Software Fingerprint	\$F1 5B	-
ECU Serial Number	\$F1 8C	-
Stored Data Transmission functional unit		
Clear Diagnostic Information	\$14	X
Emission Related Systems	\$000000	-
All Groups / All DTCs	FFFFFF	X
Individual DTC	XXXXXX	-
Read DTC Information	\$19	X
Report Number Of DTC By Status Mask	\$01	X
Report DTC By Status Mask	\$02	X
Input Output Control functional unit		
Input Output Control By Identifier	\$2F	-
Return Control To ECU	\$00	-
Freeze Current State	\$02	-
Short Term Adjustment	\$03	-
Vehicle Manufacture Specific –Input/Output Control	\$D0 00 - \$DF FF	-

Service Data (Variable data)

Data Identifier	Service Data		Value		Remark
	Byte No	No	Item Name	Conversion	
0200	1	12	VEH Speed 1	SPECIAL1	MPH
	2	25	VEH Speed 2	SPECIAL1	MPH
	3	58	Accel Percent	X*1	%
	4	55	Selector Pos.	SPECIAL2	-
0201	1	56	Gear Pos.	SPECIAL3	-
	2				
	3				
	4				
0202	1	13	A/T Oil Temp(OP)	9/5*(X-50)+32	° F
	2				
	3	17	A/T Oil Temp(TC)	9/5*(X-50)+32	° F
	4				
0203	1	15	Engine Speed	X*1	rpm
	2				
	3	16	Turbine Speed	X*1	rpm
	4				
0204	1	26	Linear Sol Press 1	X*0.145	lbf/in2
	2				
	3	27	Linear Sol Press 2	X*0.145	lbf/in2
	4				
0205	1	35	Linear Sol Press 3	X*0.145	lbf/in2
	2				
	3	34	Linear Sol Press 4	X*0.145	lbf/in2
	4				
0206	1	11	IG	X*40/256	V
	2	69	Coolant Temp	9/5*(X-40)+32	° F
	3				
	4				

SPECIAL1

Depend on "Dynamic Loaded Radius" and "Final Gear Ratio".

Conversion

$(X * 12.06 * \text{"Dynamic Loaded Radius"} / \text{"Final Gear Ratio"}) / 1.609$

Tire Size	Dynamic Loaded Radius of tire
215/75R17.5	0.372
215/85R16	0.374

Final Gear Ratio
4.875
5.285

SPECIAL2

Conversion	Value
01	P-Range
02	R-Range
03	N-Range
04	D-Range
05	4-Range
06	3-Range
07	2-Range
08	L-Range

SPECIAL3

Conversion	Value
01	1ST
02	2ND
03	3RD
04	4TH
05	5TH
06	6TH
07	N
08	R

Service Data (Switch data)

Data Identifier		Service Data		Value		Remark		
Byte No	Bit	No.	Item Name	Bit = 1	Bit = 0			
0300	1	7	19	P Pos. SW	ON	OFF		
		6	20	R Pos. SW	ON	OFF		
		5	21	N Pos. SW	ON	OFF		
		4	22	D Pos. SW	ON	OFF		
		3						
		2	24	3 Pos. SW	ON	OFF		
		1	78	2 Pos. SW	ON	OFF		
		0						
	2	7	28	OD-OFF SW	ON	OFF		
		6	61	Oil Press SW 1	ON	OFF		
		5	62	Oil Press SW 2	ON	OFF		
		4	63	Oil Press SW 3	ON	OFF		
		3	64	Oil Press SW 4	ON	OFF		
		2	65	Oil Press SW 5	ON	OFF		
		1	66	Oil Press SW 6	ON	OFF		
		0	67	Oil Press SW 7	ON	OFF		
	3	7	31	Shift Valve 1	ON	OFF		
		6	32	Shift Valve 2	ON	OFF		
		5	33	Shift Valve 3	ON	OFF		
		4	52	Shift Valve 4	ON	OFF		
		3	71	Shift Valve Press 1	HIGH	LOW		
		2	72	Shift Valve Press 2	HIGH	LOW		
		1	73	Shift Valve Press 3	HIGH	LOW		
		0	74	Shift Valve Press 4	HIGH	LOW		
	4	7						
		6						
		5	37	Brake SW	ON	OFF		
		4	38	Exh. Brake SIG	ON	OFF		
		3	47	ABS SW	ON	OFF		
		2						
		1	49	Diagnosis SW	ON	OFF		
		0						
	0301	1	7	53	Diagnosis Lamp	ON	OFF	
			6	36	Oil Temp Lamp	ON	OFF	
			5	54	Exh Brake Cut SIG	ON	OFF	
			4					
3								
2			68	Oil Press SW 8	ON	OFF		
1								
0								
2		7						
		6						
		5						
		4						
		3						
		2						
		1						
		0						
3		7						
		6						
		5						
		4						
		3						
		2						
		1						
		0						
4		7						
		6						
		5						
		4						
		3						
		2						
		1						
		0						

DTC Status Mask

DTC Status Mask	Parameter name
\$04	Pending DTCs Same as Mode \$07)
\$08	Confirmed/Stored DTCs

DTC Specification

DTC	DTC Name	Remark
P0078	EXH Brake Cut Signal	
P0500	Vehicle Speed Sensor	
P0501	Vehicle Speed Sensor Performance	
P0562	Power Supply Voltage (Low)	
P0604	ECU Hardware (RAM)	
P0605	ECU System(Hardware)	
P062F	ECU System (EEPROM)	
P0702	Power Supply Low (Battery)	
P0706	Oil Pressure SW 8 Performance	
P0707	Shift Position SW Low	
P0708	Shift Position SW High	
P0711	Oil Temp Sensor"OP" Performance	
P0712	Oil Temp Sensor"OP" Low	
P0713	Oil Temp Sensor"OP" High	
P0714	Oil Temp Sensor"OP" Intermittent	
P0717	Turbine Speed Sensor No Signal	
P0721	Output Speed Sensor Performance	
P0722	Output Speed Sensor No Signal	
P0726	Engine Speed Sensor Performance	
P0730	Incorrect Gear Ratio	
P0746	Linear Sol Valve 1 Stuck Off	
P0747	Linear Sol Valve 1 Stuck On	
P0748	Linear Sol Valve 1 Electrical	
P0751	Shift Solenoid 1 Stuck Off	
P0752	Shift Solenoid 1 Stuck On	
P0756	Shift Solenoid 2 Stuck Off	
P0757	Shift Solenoid 2 Stuck On	
P0761	Shift Solenoid 3 Stuck Off	
P0762	Shift Solenoid 3 Stuck On	
P0766	Shift Solenoid 4 Stuck Off	
P0767	Shift Solenoid 4 Stuck On	
P0776	Linear Sol Valve 2 Stuck Off	
P0777	Linear Sol Valve 2 Stuck On	
P0778	Linear Sol Valve 2 Electrical	
P0796	Linear Sol Valve 3 Stuck Off	or PSW7 Low Failure
P0797	Linear Sol Valve 3 Stuck On	
P083D	Oil Pressure SW 7 High	
P0842	Oil Pressure SW 1 Low	
P0843	Oil Pressure SW 1 High	
P0847	Oil Pressure SW 2 Low	
P0848	Oil Pressure SW 2 High	
P0863	CAN Communication	
P0872	Oil Pressure SW 3 Low	
P0873	Oil Pressure SW 3 High	
P0877	Oil Pressure SW 4 Low	
P0878	Oil Pressure SW 4 High	
P0973	Shift Solenoid 1 - Low	
P0974	Shift Solenoid 1 - High	
P0976	Shift Solenoid 2 - Low	
P0977	Shift Solenoid 2 - High	
P0979	Shift Solenoid 3 - Low	
P0980	Shift Solenoid 3 - High	
P0985	Shift Solenoid 4 - Low	
P0986	Shift Solenoid 4 - High	
P0989	Oil Pressure SW 5 Low	
P0990	Oil Pressure SW 5 High	
P0994	Oil Pressure SW 6 Low	
P0995	Oil Pressure SW 6 High	
P1604	Accel Sensor	
P2716	Linear Sol Valve 4 Electrical	
P2742	Oil Temp Sensor"TC" Low	
P2743	Oil Temp Sensor"TC" High	
P2757	Lockup Clutch	
P2759	Linear Sol Valve 3 Electrical	
U0100	CAN Communication	

Details of Security Access Service

1. Access Mode Specification

Access Mode		Security Access Mode	Use
Seed	Key		
\$01	\$02	Protected No-Volatile Parameter Access	Execute Diagnostic Session Service

2. Relationship of Seed & Key

$$\text{Key1} = \text{Seed1} + \text{Seed2} + \text{Seed3} + \text{Seed4} + \$69$$

$$\text{Key2} = \text{Seed1} + \text{Seed2} + \text{Seed3} - \text{Seed4} + \$69$$

$$\text{Key3} = \text{Seed1} + \text{Seed2} - \text{Seed3} + \text{Seed4} + \$69$$

$$\text{Key4} = \text{Seed1} - \text{Seed2} + \text{Seed3} + \text{Seed4} + \$69$$