

Title:	Project_Neotec_Skyrailer		Version: 0.0.00	Date: 5/19/2019
Customer:	Neotec skyrailer	Resp. Division: MSEH	Resp.Author:	Page: 1 of 102

Failuremode Specification Project_Neotec_Skyrailer



HYDAC

Approval / Freigabe

The content of this Document has been reviewed and approved – as per Date / Signature Der Inhalt dieses Dokuments wurde geprüft und frei gegeben - per Datum/Unterschrift:

Neotec skyrailer		
Responsible	Responsible	Project Manager
HYDAC		
Responsible	Responsible	Project Manager
Documentsnumber / Dokumentennum	mer -	



Title:	Project_Neotec_Skyrailer		Version: 0.0.00	Date: 5/19/2019
Customer:	Neotec skyrailer	Resp. Division: MSEH	Resp.Author:	Page: 2 of 102

TABLE OF CONTENTS	
1 REFERENCE DOCUMENTS	3
2 DEFINITIONS AND ABBREVIATIONS	4
3 SCOPE OF DOCUMENT	6
4 CONTROLLERS	7
5 FAILURE MANAGEMENT	8
5.1 SET CONDITIONS	8
5.1.1 General	_
6.1 NONE	



Title:	Project_Neotec_Skyrailer		Version: 0.0.00	Date: 5/19/2019
Customer:	Neotec skyrailer	Resp. Division: MSEH	Resp.Author:	Page: 3 of 102

1 Reference Documents

Dokument	Autor	Version	Datum	Datei	Beschreibung
Document	Author	Version	Date	Filename	Description

Table 1: Reference documents



Title:	Project_Neotec_Skyrailer		Version: 0.0.00	Date: 5/19/2019
Customer:	Neotec skyrailer	Resp. Division: MSEH	Resp.Author:	Page: 4 of 102

2 Definitions and Abbreviations

A28	Safety Controller HY-TTC90	
ADC	Analog-to-digital converter is a device that converts a continuous quantity to a discrete digital number	
DAC	Digital-to-analog converter is a device that converts a digital code to an analog signal (current, voltage, or electric charge)	
Cur	Current [mA]	
*.dbm	file postfix (data base module)	
I/O	Input/ Output	
DIN	Digital Input	
AIN	Analog Input	
DOUT	Digital Output	
PWM	Pulse Width Modulated (ECU Output to valve)	
ECU	Electronic Controller Unit	
HST	Hydac Service Tool	
ID	Identifier	
MC088	Machine Controller	
MATCH	M obile A pplication T ool Ch ain	
Max	Maximum	
Min	Minimum	
NvMem	Non-volatile Memory	
Project-	The Project-Library provides a small library of basic input/output functions used to	
Library operate and control the peripherals such as the CAN, RS232, display functions an ADC-Devices, DAC-Devices.		
Rpm	Rounds per Minute (rotational speed)	
SIL	Software-in-the-Loop or Safety Integrity Level	
Sta	Status	
TE	Test Environment	
Temp	Temperature	

Table 2: Definitons and abbreviations

Version			
Version	Versionnummer		
Revision	Revisionsnummer		
State	Status des Dokuments:		
	d = Draft (Entwurf)		
	a = Approved (Freigegeben)		
	p = Test in progress (Test wird durchgeführt)		
	t = Test done (Test absolviert)		

Table 3: Version

Test	Туре
FT	Functional test (Funktionstest)
MT	Software module test (Software Modul Test)
FM	Failure mode test (Fehlermodus Test)



Title:	Project_Neotec_Skyrailer		Version: 0.0.00	Date: 5/19/2019
Customer:	Neotec skyrailer	Resp. Division: MSEH	Resp.Author:	Page: 5 of 102

Table 4: Test types

Test Enviro	onment (TE)
CR	Code review (Code Durchsicht)
CS	Code simulation (Code Simulation)
TB	Test bench (Test am Prüfstand)
MT	Machine test (Test auf Zielmaschine)

Table 5: Test environment



Title:	Project_Neotec_Skyrailer		Version: 0.0.00	Date: 5/19/2019
Customer:	Neotec skyrailer	Resp. Division: MSEH	Resp.Author:	Page: 6 of 102

3 Scope of document

This document describes failure mode tests. The Failure mode tests are based on the documents mentioned under the section Reference Documents. The tests include the correct detection of a failure as well as the correct reaction of the machine in case of failure detection.

This document describes the test procedure for the specified failure modes and reactions. The document "Failure Mode Test Report" contains the corresponding results of the test are monitored and documented. All herein described tests are to be done with great care and shall follow the exact test specification.



Title:	Project_Neotec_Skyrailer		Version: 0.0.00	Date: 5/19/2019
Customer:	Neotec skyrailer	Resp. Division: MSEH	Resp.Author:	Page: 7 of 102

4 Controllers

The following table shows the Controllers that are responsible for the full machine functionality.

Short Description	Name
C0	C0 - TTC500
C1	C1 - TTC500
C2	C2 - Display



Title:	Project_Neotec_Skyrailer		Version: 0.0.00	Date: 5/19/2019
Customer:	Neotec skyrailer	Resp. Division: MSEH	Resp.Author:	Page: 8 of 102

5 Failure Management

5.1 Set Conditions

In the following, machine conditions are defined which can be used as preconditions for each failure detection. Only if the defined precondition is given, the fault in question will be detected.

Set Condition	Description
SC_SET_ARU_RM_C	Condition to active RM Aru active to stop movement
0	
SC_SET_ARU_RADIO	Condition to active RM Aru Radio to stop movement
_CO	
SC_SET_ARU_RM_C1	Condition to active RM Aru active to stop movement
SC_SET_ARU_RADIO	Condition to active RM Aru Radio to stop movement
_C1	

5.2 Release Conditions

In the following, machine conditions are defined which can be used as preconditions for resetting/releasing a failure mode after it has been detected as gone. Only if the defined precondition is given, the fault mode may be left for normal operation.

Release Condition	Description
RC00_VEHICLE_STO	vehicle is stopped
PPED	
RC01_VEHICLE_STO	vehicle is stopped and all commands are disabled
PPED_ALL_DISABLED	
CMD	
RC02_ARU_VEHICLE_	Release condition when aru is pressed and vehicle is stopped
STOPPED	

5.1 Restricted Operating Modes

"Restricted Modes" are the machine reactions to a given Fault. A "Restricted Operating Mode" can be assigned to each detectable Fault. The "Restricted Mode" is assigned independently of Type or Category of the given Fault. The Restricted Modes for this machine are defined as follows:



Title:	Project_Neotec_Skyrailer		Version: 0.0.00	Date: 5/19/2019
Customer:	Neotec skyrailer	Resp. Division: MSEH	Resp.Author:	Page: 9 of 102

5.1.1 General

Restricted Mode	Description
RM_ARU_ACTIV	if Aru contact is pushed , stop movement
E_C0	·
RM_ARU_ACTIV	if Aru contact is pushed , stop movement
E_C1	
RM_ARU_RADI	if Aru contact of radio command is pushed , stop movement
O_C0	
RM_STOP_MOV	if stop all movement is detect by limit envelope function
E_LIMIT_ENVLP	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		10 of 102

6 Failure Modes

6.1 NONE

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 1000 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	DM_ECU0_INPBOARDNON	-	SC: - DDT: 0ms SDT: False STH: 0[-]	RC: - RDT: 0ms SDT: False RTH: 0[-]	
SPN: 1001 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	DM_ECU0_INPBOARDFAT	-	SC: - DDT: 0ms SDT: False STH: 0[-]	RC: - RDT: 0ms SDT: False RTH: 0[-]	
SPN: 1002 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	DM_ECU0_INPUTPINS	-	SC: - DDT: 0ms SDT: False STH: 0[-]	RC: - RDT: 0ms SDT: False RTH: 0[-]	
SPN: 1003 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	DM_ECU0_DOUT	-	SC: - DDT: 0ms SDT: False STH: 500[-]	RC: - RDT: 0ms SDT: False RTH: 1000[-]	
SPN: 1004 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	DM_ECU0_PWMOUT	-	SC: - DDT: 0ms SDT: False STH: 500[-]	RC: - RDT: 0ms SDT: False RTH: 1000[-]	
SPN: 1005 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	DM_ECU0_CORE	-	SC: - DDT: 0ms SDT: False STH: 500[-]	RC: - RDT: 0ms SDT: False RTH: 1000[-]	
SPN: 1006 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	DM_ECU0_MEM	-	SC: - DDT: 0ms SDT: False STH: 500[-]	RC: - RDT: 0ms SDT: False RTH: 1000[-]	
SPN: 1007 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	DM_ECU0_WD	-	SC: - DDT: 0ms SDT: False STH: 500[-]	RC: - RDT: 0ms SDT: False RTH: 1000[-]	



Title:			Version:	Date:
F	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Neot	tec skyrailer	MSEH		11 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 1008 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	DM_ECU1_SSW	-	SC: - DDT: 0ms SDT: False STH: 500[-]	RC: - RDT: 0ms SDT: False RTH: 1000[-]	
SPN: 1009 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	DM_ECU1_APP_SAFESTAT E	-	SC: - DDT: 0ms SDT: False STH: 500[-]	RC: - RDT: 0ms SDT: False RTH: 1000[-]	
SPN: 1012 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	DM_ECU1_OTHERS	-	SC: - DDT: 0ms SDT: False STH: 500[-]	RC: - RDT: 0ms SDT: False RTH: 1000[-]	
SPN: 1013 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	DM_ECU1_UNDEF	-	SC: - DDT: 0ms SDT: False STH: 500[-]	RC: - RDT: 0ms SDT: False RTH: 1000[-]	
SPN: 1014 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Task overload	-	SC: - DDT: 0ms SDT: False STH: 0[-]	RC: - RDT: 0ms SDT: False RTH: 0[-]	
SPN: 1015 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Batttery Low	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1016 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Battery High	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1017 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Temperature Low	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1018 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Temperature High	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1019 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Sensor Supply S1 Low	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		12 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 1020 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Sensor Supply S1 High	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1021 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Sensor Supply S2 Low	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1022 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Sensor Supply S2 High	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1023 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Sensor Supply 5V Low	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1024 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	Sensor Supply 5V High	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1031 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	List load oneset	-	SC: - DDT: 0ms SDT: False STH: 0[-]	RC: - RDT: 0ms SDT: False RTH: 0[-]	
SPN: 1032 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	List load defect	-	SC: - DDT: 0ms SDT: False STH: 0[-]	RC: - RDT: 0ms SDT: False RTH: 0[-]	
SPN: 1033 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	List store defect	-	SC: - DDT: 0ms SDT: False STH: 0[-]	RC: - RDT: 0ms SDT: False RTH: 0[-]	
SPN: 1034 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CAN_BUS0 , , - Error condition exists according to SPN - CAN Bus off	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1035 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CAN_BUS0 , , - Error condition exists according to SPN - CAN warning	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		13 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 1036	CAT: 0-not	CO	-	_	_	[-]: CBUS0 HWBUF SND0,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
	202					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1037	CAT: 0-not	C0	-	-	-	[-]: CBUS0 HWBUF SND1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1038	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_SND2,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1039	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_SND3,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1040	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_SND4,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1041	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_SND5,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1042	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_RCV0,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1043	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_RCV1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
0011 1011	0.7					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1044	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_RCV2 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
CDN: 4045	CAT: 0 mot					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1045	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_RCV3 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Nec	otec skyrailer	MSEH		14 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1			,	Reaction			
		PIN								
SPN: 1046	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_RCV4,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1047	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_RCV5,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1048	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_RCV6,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1049	CAT: 0-not	C0	-	-	-	[-]: CBUS0_HWBUF_RCV7,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1050	CAT: 0-not	C0	-	-	-	[-]: - none - , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error					condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN		SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 9000	CAT: 5-red	C0:	-	-	-	[PIN_103]:	-	SC: -	RC: -	
FMI: 3	Type: Error	103				PressureBlockOscillationSens		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					or,, - Short to Power		SDT: False	SDT: False	
						(Voltage High)- Master input		STH: 0[-]	RTH: 0[-]	
0.511 0004						signal short to power				
SPN: 9001	CAT: 5-red	C0:	-	-	-	[PIN_103]:	-	SC: -	RC: -	
FMI: 4	Type: Error	103				PressureBlockOscillationSens		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					or , , - Short to Ground		SDT: False	SDT: False	
						(Voltage Low)- Master input		STH: 0[-]	RTH: 0[-]	
0000	047 5 1		-			signal short to ground				
SPN: 9002	CAT: 5-red	C0:	-	-	-	[PIN_103]:	-	SC: -	RC: -	
FMI: 24	Type: Error	103				PressureBlockOscillationSens		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					or , , - Logical Error (SW		SDT: False	SDT: False	
						Failure)- Parameter of input		STH: 0[-]	RTH: 0[-]	
ODNI 0000	OAT: 5 d	00:				char NOT monoton		00:	. DO:	
SPN: 9003	CAT: 5-red	C0:	-	-	-	[PIN_103]:	-	SC: -	RC: -	
FMI: 12	Type: Error	103				PressureBlockOscillationSens		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					or , , - Internal Controller		SDT: False	SDT: False	
						Error- Unknown internal error		STH: 0[-]	RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		15 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
ыс	Memorize	: PIN	I	Component	Assemblies	Description	Reaction	Set Bellaviol	Release Bellaviol	restrib
SPN: 9004 FMI: 3 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 127	-	-	-	[PIN_127]: PressureBrakeSensor,, - Short to Power (Voltage High)- Master input signal short to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9005 FMI: 4 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 127	-	-	-	[PIN_127]: PressureBrakeSensor,, - Short to Ground (Voltage Low)- Master input signal short to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9006 FMI: 24 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 127	-	-	-	[PIN_127]: PressureBrakeSensor,, - Logical Error (SW Failure)- Parameter of input char NOT monoton	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9007 FMI: 12 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 127	-	-	-	[PIN_127]: PressureBrakeSensor,, - Internal Controller Error- Unknown internal error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9020 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 115	-	-	-	[PIN_115]: OscillantAxleSpeedSensor,, - Error condition exists according to SPN - Input is short to Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9021 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 115	-	-	-	[PIN_115]: OscillantAxleSpeedSensor,, - Error condition exists according to SPN - Input is short to Power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9022 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 115	-	-	-	[PIN_115]: OscillantAxleSpeedSensor,, - Error condition exists according to SPN - Wrong Parameter	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9023 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 115	-	-	-	[PIN_115]: OscillantAxleSpeedSensor,, - Error condition exists according to SPN - Unknown Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		16 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9024 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 116	-	-	-	[PIN_116]: FixeAxleSpeedSensor,, - Error condition exists according to SPN - Input is short to Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9025 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 116	-	-	-	[PIN_116]: FixeAxleSpeedSensor,, - Error condition exists according to SPN - Input is short to Power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9026 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 116	-	-	-	[PIN_116]: FixeAxleSpeedSensor,, - Error condition exists according to SPN - Wrong Parameter	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9027 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 116	-	-	-	[PIN_116]: FixeAxleSpeedSensor,, - Error condition exists according to SPN - Unknown Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9028 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 153	-	-	-	[PIN_153]: EvDeflectorTransmission , , - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9029 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 153	-	-	-	[PIN_153]: EvDeflectorTransmission , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9030 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 153	-	-	-	[PIN_153]: EvDeflectorTransmission , , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9031 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 153	-	-	-	[PIN_153]: EvDeflectorTransmission , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls

MSC

DOC NO. -

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		17 of 102

DTC	Category Type Memorize	ECU	Labe	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
	Wemonze	PIN	'				Reaction			
SPN: 9032 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 190	-	-	-	[PIN_190]: EvUpMeasuringMast,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9033 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 190	-	-	-	[PIN_190]: EvUpMeasuringMast,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9034 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 190	-	-	-	[PIN_190]: EvUpMeasuringMast,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9035 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 190	-	-	-	[PIN_190]: EvUpMeasuringMast,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9036 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 166	-	-	-	[PIN_166]: EvDownMeasuringMast,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9037 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 166	-	-	-	[PIN_166]: EvDownMeasuringMast , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9038 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 166	-	-	-	[PIN_166]: EvDownMeasuringMast , , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
N	leotec skyrailer	MSEH		18 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9039 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 166	-	-	-	[PIN_166]: EvDownMeasuringMast , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9040 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 195	-	-	-	[PIN_195]: EvServiceBrakeTrack,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9041 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 195	-	-	-	[PIN_195]: EvServiceBrakeTrack,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9042 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 195	-	-	-	[PIN_195]: EvServiceBrakeTrack,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9043 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 195	-	-	-	[PIN_195]: EvServiceBrakeTrack,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9044 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 171	-	-	-	[PIN_171]: EvPowerReduction,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9045 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 171	-	-	-	[PIN_171]: EvPowerReduction,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9046 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 171	-	-	-	[PIN_171]: EvPowerReduction,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		19 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9047 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 171	-	-	-	[PIN_171]: EvPowerReduction,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9056 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 160	-	-	-	[PIN_160]: SupplyRadioReceiver,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9057 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 160	-	-	-	[PIN_160]: SupplyRadioReceiver,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9058 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 160	-	-	-	[PIN_160]: SupplyRadioReceiver,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9059 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 160	-	-	-	[PIN_160]: SupplyRadioReceiver,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9060 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 184	-	-	-	[PIN_184]: BuzzerLynxMovingMachine,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9061 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 184	-	-	-	[PIN_184]: BuzzerLynxMovingMachine,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9062 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 184	-	-	-	[PIN_184]: BuzzerLynxMovingMachine,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		20 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9063 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 184	-	-	-	[PIN_184]: BuzzerLynxMovingMachine,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9072 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0: 173	-	-	-	[PIN_173]: WhiteLightAVD,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9073 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 173	-	-	-	[PIN_173]: WhiteLightAVD,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9074 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 173	-	-	-	[PIN_173]: WhiteLightAVD,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9075 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 173	-	-	-	[PIN_173]: WhiteLightAVD,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9076 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0: 152	-	-	-	[PIN_152]: RedLightAVG,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9077 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 152	-	-	-	[PIN_152]: RedLightAVG,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9078 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 152	-	-	-	[PIN_152]: RedLightAVG,, - Error condition exists according to SPN - HS Short To Ground		SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9079 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 152	-	-	-	[PIN_152]: RedLightAVG,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Nec	otec skyrailer	MSEH		21 of 102

DTC	Category Type Memorize	ECU :	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
		PIN								
SPN: 9080 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0: 176	-	-	-	[PIN_176]: RedLightAVD,,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9081 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 176	-	-	-	[PIN_176]: RedLightAVD,, - Error condition exists according to SPN - HS Short To Power internal		SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9082 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 176	-	-	-	[PIN_176]: RedLightAVD,, - Error condition exists according to SPN - HS Short To Ground		SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9083 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 176	-	-	-	[PIN_176]: RedLightAVD,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9084 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0: 155	-	-	-	[PIN_155]: WhiteLightARG,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9085 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 155	-	-	-	[PIN_155]: WhiteLightARG,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9086 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 155	-	-	-	[PIN_155]: WhiteLightARG,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9087 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 155	-	-	-	[PIN_155]: WhiteLightARG,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9088 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0: 179	-	-	-	[PIN_179]: WhiteLightARD,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		22 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	'				Reaction			
SPN: 9089 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 179	-	-	-	[PIN_179]: WhiteLightARD,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9090 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 179	-	-	-	[PIN_179]: WhiteLightARD,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9091 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 179	-	-	-	[PIN_179]: WhiteLightARD,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9092 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0: 158	-	-	-	[PIN_158]: RedLightARG,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9093 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 158	-	-	-	[PIN_158]: RedLightARG,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9094 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 158	-	-	-	[PIN_158]: RedLightARG,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9095 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 158	-	-	-	[PIN_158]: RedLightARG,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9096 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0: 182	-	-	-	[PIN_182]: RedLightARD,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9097 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 182	-	-	-	[PIN_182]: RedLightARD,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		23 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9098 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 182	-	-	-	[PIN_182]: RedLightARD,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9099 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 182	-	-	-	[PIN_182]: RedLightARD,,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9100 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 164	-	-	-	[PIN_164]: SupplyPvgRightTrack,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9101 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 164	-	-	-	[PIN_164]: SupplyPvgRightTrack,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9102 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 164	-	-	-	[PIN_164]: SupplyPvgRightTrack,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9103 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 164	-	-	-	[PIN_164]: SupplyPvgRightTrack,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9154 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 161	-	-	-	[PIN_161]: PvgLeftTrack,, - Error condition exists according to SPN - Short to Power has been detected	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9155 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 161	-	-	-	[PIN_161]: PvgLeftTrack,, - Error condition exists according to SPN - Short to Ground has been detected	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9156 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 161	-	-	-	[PIN_161]: PvgLeftTrack , , - Error condition exists according to SPN - Wrong Parameter	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls

MSC

DOC NO. -

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		24 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test IE
	Memorize	: PIN	1				Reaction			
SPN: 9157	CAT: 5-red	C0:	-	-	-	[PIN_161]: PvgLeftTrack,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	161				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Unknown		SDT: False	SDT: False	
						error		STH: 0[-]	RTH: 0[-]	
SPN: 9158	CAT: 5-red	C0:	-	-	-	[PIN_185]: PvgRightTrack,,	-	SC: -	RC: -	
FMI: 31	Type: Error	185				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Short to		SDT: False	SDT: False	
						Power has been detected		STH: 0[-]	RTH: 0[-]	
SPN: 9159	CAT: 5-red	C0:	-	-	-	[PIN_185]: PvgRightTrack,,	-	SC: -	RC: -	
FMI: 31	Type: Error	185				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - Short to		SDT: False	SDT: False	
						Ground has been detected		STH: 0[-]	RTH: 0[-]	
SPN: 9160	CAT: 5-red	C0:	-	-	-	[PIN_185]: PvgRightTrack,,	-	SC: -	RC: -	
FMI: 31	Type: Error	185				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Wrong		SDT: False	SDT: False	
						Parameter		STH: 0[-]	RTH: 0[-]	
SPN: 9161	CAT: 5-red	C0:	-	-	-	[PIN_185]: PvgRightTrack,,	-	SC: -	RC: -	
FMI: 31	Type: Error	185				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Unknown		SDT: False	SDT: False	
						error		STH: 0[-]	RTH: 0[-]	
SPN: 1051	CAT: 0-not	C1	-	-	-	DM_ECU0_INPBOARDNON	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 1052	CAT: 0-not	C1	-	-	-	DM_ECU0_INPBOARDFAT	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 1053	CAT: 0-not	C1	-	-	-	DM_ECU0_INPUTPINS	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms	
FMlex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 1054	CAT: 0-not	C1	-	-	-	DM_ECU0_DOUT	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms	
FMlex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 500[-]	RTH: 1000[-]	
SPN: 1055	CAT: 0-not	C1	-	-	-	DM_ECU0_PWMOUT	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 500[-]	RTH: 1000[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
N	eotec skyrailer	MSEH		25 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 1056	CAT: 5-red	C1	-	-	-	DM_ECU0_CORE	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 500[-]	RTH: 1000[-]	
SPN: 1057	CAT: 5-red	C1	-	-	-	DM_ECU0_MEM	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms SDT: False	
FMlex: 255	ESB: NOT							SDT: False STH: 500[-]	RTH: 1000[-]	
SPN: 1058	CAT: 5-red	C1	-	 -	_	DM_ECU0_WD	_	SC: -	RC: -	
FMI: 31	Type: Error	01	-	-	-	DIVI_ECOO_VVD		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
1 11110%. 200	202. 1101							STH: 500[-]	RTH: 1000[-]	
SPN: 1059	CAT: 0-not	C1	-	-	-	DM_ECU1_SSW	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 500[-]	RTH: 1000[-]	
SPN: 1060	CAT: 0-not	C1	-	-	-	DM_ECU1_APP_SAFESTAT	-	SC: -	RC: -	
FMI: 31	Type: Error					E		DDT: 0ms	RDT: 0ms	
FMlex: 255	ESB: NOT							SDT: False	SDT: False	
ODN: 4000	047. 0	04				DM FOLIA OTHERO		STH: 500[-]	RTH: 1000[-]	
SPN: 1063 FMI: 31	CAT: 0-not Type: Error	C1	-	-	-	DM_ECU1_OTHERS	-	SC: - DDT: 0ms	RC: - RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
I WIEX. 233	LOB. NOT							STH: 500[-]	RTH: 1000[-]	
SPN: 1064	CAT: 0-not	C1	+ -	_	† <u>-</u>	DM_ECU1_UNDEF	_	SC: -	RC: -	
FMI: 31	Type: Error	"				5.11,2551,251		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 500[-]	RTH: 1000[-]	
SPN: 1065	CAT: 0-not	C1	-	-	-	Task overload	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
ODN 1000	0.47	0.4	1			B		STH: 0[-]	RTH: 0[-]	
SPN: 1066	CAT: 0-not	C1	-	-	-	Batttery Low	-	SC: -	RC: -	
FMI: 31 FMIex: 255	Type: Error ESB: NOT							DDT: 500ms SDT: False	RDT: 1000ms SDT: False	
FIVILEX. 200	ESB. NUI							STH: 0[-]	RTH: 0[-]	
SPN: 1067	CAT: 0-not	C1	+	_	 	Battery High		SC: -	RC: -	
FMI: 31	Type: Error	01	1	_		Dattery Flight		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
N	leotec skyrailer	MSEH		26 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 1068 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	Temperature Low	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1069 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	Temperature High	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1070 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	Sensor Supply S1 Low	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1071 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	Sensor Supply S1 High	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1072 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	Sensor Supply S2 Low	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1073 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	Sensor Supply S2 High	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1074 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	Sensor Supply 5V Low	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1075 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	Sensor Supply 5V High	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1082 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	List load oneset	-	SC: - DDT: 0ms SDT: False STH: 0[-]	RC: - RDT: 0ms SDT: False RTH: 0[-]	
SPN: 1083 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	List load defect	-	SC: - DDT: 0ms SDT: False STH: 0[-]	RC: - RDT: 0ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
N	eotec skyrailer	MSEH		27 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1			, , ,	Reaction			
		PIN								
SPN: 1084	CAT: 0-not	C1	-	-	-	List store defect	-	SC: -	RC: -	
FMI: 31	Type: Error							DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT							SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 9186	CAT: 5-red	C1:	-	-	-	[PIN_106]: GasGauge,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	106				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Input		SDT: False	SDT: False	
						signal short to power		STH: 0[-]	RTH: 0[-]	
SPN: 9187	CAT: 5-red	C1:	-	-	-	[PIN_106]: GasGauge,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	106				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Input		SDT: False	SDT: False	
						signal short to ground		STH: 0[-]	RTH: 0[-]	
SPN: 9188	CAT: 5-red	C1:	-	-	-	[PIN 106]: GasGauge,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	106				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - Internal		SDT: False	SDT: False	
						Block error		STH: 0[-]	RTH: 0[-]	
SPN: 9291	CAT: 5-red	C1:	-	-	_	[PIN_124]: ActiveHelp,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	124				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - An input		SDT: False	SDT: False	
						signal is too low / Short circuit		STH: 0[-]	RTH: 0[-]	
						to ground				
SPN: 9292	CAT: 5-red	C1:	-	_	_	[PIN_124]: ActiveHelp,, -	_	SC: -	RC: -	
FMI: 31	Type: Error	124				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT	'-'				according to SPN - An input		SDT: False	SDT: False	
						signal is too high / Short		STH: 0[-]	RTH: 0[-]	
						circuit to power		S		
SPN: 9293	CAT: 5-red	C1:	-	_	-	[PIN_124]: ActiveHelp,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	124				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - An input		SDT: False	SDT: False	
	202					signal is out of valid range		STH: 0[-]	RTH: 0[-]	
SPN: 9294	CAT: 5-red	C1:	l -	_	_	[PIN_124]: ActiveHelp,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	124				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	'-'				according to SPN - Warning:		SDT: False	SDT: False	
. 11110/11 200						a block has limited		STH: 0[-]	RTH: 0[-]	
						parameters				
SPN: 9295	CAT: 5-red	C1:	-	_	_	[PIN 124]: ActiveHelp , , -	_	SC: -	RC: -	
FMI: 31	Type: Error	124	_			Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT	'				according to SPN - An		SDT: False	SDT: False	
1 WIICA. 200	LOD. NOT					initialization error		STH: 0[-]	RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		28 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9310 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 156	-	-	-	[PIN_156]: EvPropMotorAccelerator,, - Error condition exists according to SPN - Open load / open circuit	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9311 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 156	-	-	-	[PIN_156]: EvPropMotorAccelerator,, - Error condition exists according to SPN - Short circuit to power supply / battery	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9312 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 156	-	-	-	[PIN_156]: EvPropMotorAccelerator,, - Error condition exists according to SPN - Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9313 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 156	-	-	-	[PIN_156]: EvPropMotorAccelerator,, - Error condition exists according to SPN - Deviation of current control	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9314 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 156	-	-	-	[PIN_156]: EvPropMotorAccelerator,, - Error condition exists according to SPN - Internal error (software or hardware error)	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9315 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 180	-	-	-	[PIN_180]: EvPropGenerator , , - Error condition exists according to SPN - Open load / open circuit	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9316 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 180	-	-	-	[PIN_180]: EvPropGenerator , , - Error condition exists according to SPN - Short circuit to power supply / battery	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9317 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 180	-	-	-	[PIN_180]: EvPropGenerator , , - Error condition exists according to SPN - Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		29 of 102

DTC	Category Type Memorize	ECU :	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
		PIN								
SPN: 9318 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 180	-	-	-	[PIN_180]: EvPropGenerator ,, - Error condition exists according to SPN - Deviation of current control	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9319 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 180	-	-	-	[PIN_180]: EvPropGenerator ,, - Error condition exists according to SPN - Internal error (software or hardware error)	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9379 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 109	-	-	-	[PIN_109]: OilPressure,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9380 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 109	-	-	-	[PIN_109]: OilPressure,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9381 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 109	-	-	-	[PIN_109]: OilPressure,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9382 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 109	-	-	-	[PIN_109]: OilPressure,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9383 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 109	-	-	-	[PIN_109]: OilPressure,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9384 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 133	-	-	-	[PIN_133]: WaterTemperature,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
N	eotec skyrailer	MSEH		30 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1				Reaction			100012
		PIN								
SPN: 9385 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 133	-	-	-	[PIN_133]: WaterTemperature,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9386 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 133	-	-	-	[PIN_133]: WaterTemperature,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9387 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 133	-	-	-	[PIN_133]: WaterTemperature,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9388 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 133	-	-	-	[PIN_133]: WaterTemperature,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9389 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 149	-	-	-	[PIN_149]: BlueFire , , - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9390 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 149	-	-	-	[PIN_149]: BlueFire , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9391 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 149	-	-	-	[PIN_149]: BlueFire , , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9392 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 149	-	-	-	[PIN_149]: BlueFire , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Ne	otec skyrailer	MSEH		31 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9393 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 173	-	-	-	[PIN_173]: OrangeFlashingLight,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9394 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 173	-	-	-	[PIN_173]: OrangeFlashingLight,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9395 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 173	-	-	-	[PIN_173]: OrangeFlashingLight,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9396 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 173	-	-	-	[PIN_173]: OrangeFlashingLight,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9401 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 155	-	-	-	[PIN_155]: AntiStartup,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9402 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 155	-	-	-	[PIN_155]: AntiStartup,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9403 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 155	-	-	-	[PIN_155]: AntiStartup,,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9404 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 155	-	-	-	[PIN_155]: AntiStartup , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		32 of 102

DTC	Category Type Memorize	ECU :	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
		PIN								
SPN: 9405 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 179	-	-	-	[PIN_179]: StopMotor,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9406 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 179	-	-	-	[PIN_179]: StopMotor,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9407 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 179	-	-	-	[PIN_179]: StopMotor,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9408 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 179	-	-	-	[PIN_179]: StopMotor,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9409 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 158	-	-	-	[PIN_158]: Warming , , - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9410 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 158	-	-	-	[PIN_158]: Warming , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9411 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 158	-	-	-	[PIN_158]: Warming , , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9412 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 158	-	-	-	[PIN_158]: Warming , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9413 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 182	-	-		[PIN_182]: EvBypass,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		33 of 102

DTC	Category Type Memorize	ECU	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
	Wellionze	: PIN	'				Reaction			
SPN: 9414	CAT: 0-not	C1:	-	-	-	[PIN_182]: EvBypass,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	182				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
						To Power internal		STH: 0[-]	RTH: 0[-]	
SPN: 9415	CAT: 0-not	C1:	-	-	-	[PIN_182]: EvBypass , , -	-	SC: -	RC: -	
FMI: 31	Type: Error	182				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
						To Ground		STH: 0[-]	RTH: 0[-]	
SPN: 9416	CAT: 0-not	C1:	-	-	-	[PIN_182]: EvBypass , , -	-	SC: -	RC: -	
FMI: 31	Type: Error	182				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Internal		SDT: False	SDT: False	
						Driver Error		STH: 0[-]	RTH: 0[-]	
SPN: 9421	CAT: 5-red	C1:	-	-	-	[PIN_161]: PvgDeltaArm,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	161				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Short to		SDT: False	SDT: False	
						Power has been detected		STH: 0[-]	RTH: 0[-]	
SPN: 9422	CAT: 5-red	C1:	-	-	-	[PIN_161]: PvgDeltaArm,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	161				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Short to		SDT: False	SDT: False	
						Ground has been detected		STH: 0[-]	RTH: 0[-]	
SPN: 9423	CAT: 5-red	C1:	-	-	-	[PIN_161]: PvgDeltaArm,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	161				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Wrong		SDT: False	SDT: False	
						Parameter		STH: 0[-]	RTH: 0[-]	
SPN: 9424	CAT: 5-red	C1:	-	-	-	[PIN_161]: PvgDeltaArm,, -	-	SC: -	RC: -	
FMI: 31	Type: Error	161				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - Unknown		SDT: False	SDT: False	
0001 0405	0.47 5 1	0.4				error		STH: 0[-]	RTH: 0[-]	
SPN: 9425	CAT: 5-red	C1:	-	-	-	[PIN_185]: PvgArrowArm , , -	-	SC: -	RC: -	
FMI: 31	Type: Error ESB: NOT	185				Error condition exists		DDT: 500ms SDT: False	RDT: 1000ms SDT: False	
FMlex: 255	ESB: NOT					according to SPN - Short to				
SPN: 9426	CAT: 5-red	C1:				Power has been detected		STH: 0[-] SC: -	RTH: 0[-] RC: -	
SPN: 9426 FMI: 31		185	-	-	-	[PIN_185]: PvgArrowArm,, - Error condition exists	-	DDT: 500ms	RC: - RDT: 1000ms	
FMI: 31 FMIex: 255	Type: Error ESB: NOT	100						SDT: False	SDT: False	
FIVILEX. 200	ESB. NUI					according to SPN - Short to Ground has been detected		STH: 0[-]	RTH: 0[-]	
SPN: 9427	CAT: 5-red	C1:	-			[PIN_185]: PvgArrowArm , , -	_	SC: -	RTH: 0[-]	
FMI: 31	Type: Error	185	-	-	-	Error condition exists	-	DDT: 500ms	RDT: 1000ms	
FMI: 31 FMIex: 255	ESB: NOT	100				according to SPN - Wrong		SDT: False	SDT: False	
I WILEX. 200	LOD. NOT					Parameter		STH: 0[-]		
				I	1	Farameter		SIN. V[-]	RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		34 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test IL
SPN: 9428 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 185	-	-	-	[PIN_185]: PvgArrowArm,, - Error condition exists according to SPN - Unknown	-	SC: - DDT: 500ms SDT: False	RC: - RDT: 1000ms SDT: False	
SPN: 9429 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 188	-	-	-	error [PIN_188]: PvgTelescopeArm , , - Error condition exists according to SPN - Short to Power has been detected	-	STH: 0[-] SC: - DDT: 500ms SDT: False STH: 0[-]	RTH: 0[-] RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9430 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 188	-	-	-	[PIN_188]: PvgTelescopeArm ,, - Error condition exists according to SPN - Short to Ground has been detected	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9431 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 188	-	-	-	[PIN_188]: PvgTelescopeArm ,, - Error condition exists according to SPN - Wrong Parameter	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9432 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 188	-	-	-	[PIN_188]: PvgTelescopeArm ,, - Error condition exists according to SPN - Unknown error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9433 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 164	-	-	-	[PIN_164]: PvgPropEvTOR, , - Error condition exists according to SPN - Short to Power has been detected	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9434 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 164	-	-	-	[PIN_164]: PvgPropEvTOR, , - Error condition exists according to SPN - Short to Ground has been detected	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9435 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 164	-	-	-	[PIN_164]: PvgPropEvTOR, , - Error condition exists according to SPN - Wrong Parameter	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9436 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 164	-	-	-	[PIN_164]: PvgPropEvTOR, , - Error condition exists according to SPN - Unknown error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9437 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 191	-	-	-	[PIN_191]: SupplyPvgDeltaArm,, - Error condition exists according to SPN - HS OpenLoad / Short	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		35 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9438 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 191	-	-	-	[PIN_191]: SupplyPvgDeltaArm,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9439 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 191	-	-	-	[PIN_191]: SupplyPvgDeltaArm,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9440 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 191	-	-	-	[PIN_191]: SupplyPvgDeltaArm , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9441 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 167	-	-	-	[PIN_167]: SupplyPvgBoomArm,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9442 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 167	-	-	-	[PIN_167]: SupplyPvgBoomArm,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9443 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 167	-	-	-	[PIN_167]: SupplyPvgBoomArm,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9444 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 167	-	-	-	[PIN_167]: SupplyPvgBoomArm,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9445 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 194	-	-	-	[PIN_194]: SupplyPvgTelescopeArm,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		36 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9446 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 194	-	-	-	[PIN_194]: SupplyPvgTelescopeArm,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9447 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 194	-	-	-	[PIN_194]: SupplyPvgTelescopeArm,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9448 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 194	-	-	-	[PIN_194]: SupplyPvgTelescopeArm,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9449 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 170	-	-	-	[PIN_170]: SupplyPvgPropEvTOR,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9450 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 170	-	-	-	[PIN_170]: SupplyPvgPropEvTOR,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9451 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 170	-	-	-	[PIN_170]: SupplyPvgPropEvTOR,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9452 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 170	-	-	-	[PIN_170]: SupplyPvgPropEvTOR,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9479 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 110	-	-	-	[PIN_110]: RailHookSensor, , - Error condition exists according to SPN - An input signal is too high / Short	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

ZUM KIESBERG 16

14979 GROßBEEREN

Mobile Systems and Electronic Controls

MSC

DOC NO. -

HYDAC INTERNATIONAL GMBH Sulzbach INDUSTRIEGEBIET WERK 15



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		37 of 102

DTC	Category Type Memorize	ECU :	Labe	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
		PIN	_				reaction			
SPN: 9480 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 110	-	-	-	[PIN_110]: RailHookSensor, , - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9481 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 110	-	-	-	[PIN_110]: RailHookSensor, , - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9482 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 110	-	-	-	[PIN_110]: RailHookSensor, , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9483 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 134	-	-	-	[PIN_134]: InductiveRailSensor,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9484 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 134	-	-	-	[PIN_134]: InductiveRailSensor,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9485 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 134	-	-	-	[PIN_134]: InductiveRailSensor,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9486 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 134	-	-	-	[PIN_134]: InductiveRailSensor,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9487 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 134	-	-	-	[PIN_134]: InductiveRailSensor,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		38 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	'				Reaction			
SPN: 9488 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 111	-	-	-	[PIN_111]: CenteredTurret , , - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9489 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 111	-	-	-	[PIN_111]: CenteredTurret , , - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9490 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 111	-	-	-	[PIN_111]: CenteredTurret , , - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9491 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 111	-	-	-	[PIN_111]: CenteredTurret , , - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9492 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 111	-	-	-	[PIN_111]: CenteredTurret , , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9493 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 135	-	-	-	[PIN_135]: WorkKeyTrackSide,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9494 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 135	-	-	-	[PIN_135]: WorkKeyTrackSide,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9495 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 135	-	-	-	[PIN_135]: WorkKeyTrackSide,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
P	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Neot	ec skyrailer	MSEH		39 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9496 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 135	-	-	-	[PIN_135]: WorkKeyTrackSide,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9497 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 135	-	-	-	[PIN_135]: WorkKeyTrackSide,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9503 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 136	-	-	-	[PIN_136]: WorkKeyBilateral ,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9504 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 136	-	-	-	[PIN_136]: WorkKeyBilateral ,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9505 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 136	-	-	-	[PIN_136]: WorkKeyBilateral ,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9506 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 136	-	-	-	[PIN_136]: WorkKeyBilateral ,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9507 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 136	-	-	-	[PIN_136]: WorkKeyBilateral , , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9508 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 113	-	-	-	[PIN_113]: WorkKeyCentred,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		40 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9509 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 113	-	-	-	[PIN_113]: WorkKeyCentred,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9510 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 113	-	-	-	[PIN_113]: WorkKeyCentred,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9511 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 113	-	-	-	[PIN_113]: WorkKeyCentred,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9512 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 113	-	-	-	[PIN_113]: WorkKeyCentred,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9513 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 137	-	-	-	[PIN_137]: AbutmentTurretTrackSide,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9514 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 137	-	-	-	[PIN_137]: AbutmentTurretTrackSide,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9515 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 137	-	-	-	[PIN_137]: AbutmentTurretTrackSide,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9516 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 137	-	-	-	[PIN_137]: AbutmentTurretTrackSide,, - Error condition exists according to SPN - Warning: a block has limited	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls

MSC

DOC NO. -

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15

D-66273 SULZBACH/SAAR



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		41 of 102

270		5011			1			0.15.1		T
DTC	Category Type Memorize	ECU :	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
ODN: 0547	OAT: Freed	PIN				IDIN 407 1		00:	DO:	
SPN: 9517 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 137	-	-	-	[PIN_137]: AbutmentTurretTrackSide,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9523 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 138	-	-	-	[PIN_138]: AbutmentTurretCentredSide, , - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9524 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 138	-	-	-	[PIN_138]: AbutmentTurretCentredSide, , - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9525 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 138	-	-	-	[PIN_138]: AbutmentTurretCentredSide, , - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9526 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 138	-	-	-	[PIN_138]: AbutmentTurretCentredSide, , - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9527 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 138	-	-	-	[PIN_138]: AbutmentTurretCentredSide, , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9528 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 139	-	-	-	[PIN_139]: OscillantAxleSpeedSensorDir , , - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		42 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1	-			Reaction			
SPN: 9529 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 139	-	-	-	[PIN_139]: OscillantAxleSpeedSensorDir , , - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9530 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 139	-	-	-	[PIN_139]: OscillantAxleSpeedSensorDir , , - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9531 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 139	-	-	-	[PIN_139]: OscillantAxleSpeedSensorDir , , - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9532 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 139	-	-	-	[PIN_139]: OscillantAxleSpeedSensorDir , , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9533 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 140	-	-	-	[PIN_140]: FixeAxleSpeedSensorDir,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9534 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 140	-	-	-	[PIN_140]: FixeAxleSpeedSensorDir,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9535 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 140	-	-	-	[PIN_140]: FixeAxleSpeedSensorDir,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH	-	43 of 102

DTC	Cotogory Tyras	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
Dic	Category Type Memorize	ECU : PIN	I	Component	Assemblies	Description	Reaction	Set Benavior	Release Benavior	restib
SPN: 9536 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 140	-	-	-	[PIN_140]: FixeAxleSpeedSensorDir,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9537 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 140	-	-	-	[PIN_140]: FixeAxleSpeedSensorDir,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9538 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 117	-	-	-	[PIN_117]: TrailerGache,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9539 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 117	-	-	-	[PIN_117]: TrailerGache,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9540 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 117	-	-	-	[PIN_117]: TrailerGache,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9541 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 117	-	-	-	[PIN_117]: TrailerGache,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9542 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 117	-	-	-	[PIN_117]: TrailerGache,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9543 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 141	-	-	-	[PIN_141]: MeasuringMastSensorFolded , , - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		44 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9544 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 141	-	-	-	[PIN_141]: MeasuringMastSensorFolded , , - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9545 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 141	-	-	-	[PIN_141]: MeasuringMastSensorFolded , , - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9546 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 141	-	-	-	[PIN_141]: MeasuringMastSensorFolded , , - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9547 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 141	-	-	-	[PIN_141]: MeasuringMastSensorFolded , , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1102 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CAN_BUS2 , , - Error condition exists according to SPN - CAN Bus off	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1103 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CAN_BUS2 , , - Error condition exists according to SPN - CAN warning	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1104 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CBUS2_HWBUF_SND0 , , - Error condition exists according to SPN - HW- Buffer overflow send	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1105 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CBUS2_HWBUF_SND1 , , - Error condition exists according to SPN - HW- Buffer overflow send	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		45 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 1106	CAT: 0-not	C0	-	_	_	[-]: CBUS2 HWBUF SND2,,	-	SC: -	RC: -	
FMI: 31	Type: Error	00	_			- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 MICX. 200	LOB. NOT					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1107	CAT: 0-not	C0	-	_	_	[-]: CBUS2 HWBUF SND3,,	_	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 MICX. 200	LOB. NOT					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1108	CAT: 0-not	C0	-	_	_	[-]: CBUS2_HWBUF_SND4 , ,	_	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 MICX. 200	LOB. NOT					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1109	CAT: 0-not	C0	-	_	1_	[-]: CBUS2 HWBUF SND5	_	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 MICX. 200	LOB. NOT					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1110	CAT: 0-not	C0	-	_	_	[-]: CBUS2_HWBUF_RCV0 , ,	_	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 1111001. 200	205. 1101					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1111	CAT: 0-not	C0	-	_	-	[-]: CBUS2_HWBUF_RCV1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 1111001. 200	205. 1101					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1112	CAT: 0-not	C0	-	_	_	[-]: CBUS2 HWBUF RCV2	_	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1113	CAT: 0-not	C0	-	-	_	[-]: CBUS2_HWBUF_RCV3,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1114	CAT: 0-not	C0	-	-	-	[-]: CBUS2 HWBUF RCV4	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1115	CAT: 0-not	C0	-	-	-	[-]: CBUS2_HWBUF_RCV5,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		46 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 1116 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CBUS2_HWBUF_RCV6 , , - Error condition exists according to SPN - HW- Buffer overflow receive	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1117 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CBUS2_HWBUF_RCV7 , , - Error condition exists according to SPN - HW- Buffer overflow receive	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1118 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CBUS2_CBUF_SND_1 , , - Error condition exists according to SPN - Software Buffer SW-Overflow	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1119 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0	-	-	-	[-]: CBUS2_CBUF_RCV_1 , , - Error condition exists according to SPN - Software Buffer SW-Overflow	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9556 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 101	-	-	-	[PIN_101]: EvForwardPump,, - Error condition exists according to SPN - Open load / open circuit	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9557 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 101	-	-	-	[PIN_101]: EvForwardPump,, - Error condition exists according to SPN - Short circuit to power supply / battery	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9558 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 101	-	-	-	[PIN_101]: EvForwardPump,, - Error condition exists according to SPN - Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9559 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 101	-	-	-	[PIN_101]: EvForwardPump,, - Error condition exists according to SPN - Deviation of current control	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9560 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 101	-	-	-	[PIN_101]: EvForwardPump,, - Error condition exists according to SPN - Internal error (software or hardware error)	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		47 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	'				Reaction			
SPN: 9561 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 125	-	-	-	[PIN_125]: EvBackwardPump ,, - Error condition exists according to SPN - Open load / open circuit	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9562 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 125	-	-	-	[PIN_125]: EvBackwardPump ,, - Error condition exists according to SPN - Short circuit to power supply / battery	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9563 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 125	-	-	-	[PIN_125]: EvBackwardPump ,, - Error condition exists according to SPN - Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9564 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 125	-	-	-	[PIN_125]: EvBackwardPump ,, - Error condition exists according to SPN - Deviation of current control	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9565 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 125	-	-	-	[PIN_125]: EvBackwardPump ,, - Error condition exists according to SPN - Internal error (software or hardware error)	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9586 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0: 194	-	-	-	[PIN_194]: WhiteTrailerLights ,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9587 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 194	-	-	-	[PIN_194]: WhiteTrailerLights ,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9588 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 194	-	-	-	[PIN_194]: WhiteTrailerLights ,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9589 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 194	-	-	-	[PIN_194]: WhiteTrailerLights ,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		48 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9590 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C0: 170	-	-	-	[PIN_170]: RedTrailerLights,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9591 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 170	-	-	-	[PIN_170]: RedTrailerLights,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9592 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 170	-	-	-	[PIN_170]: RedTrailerLights, , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9593 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 170	-	-	-	[PIN_170]: RedTrailerLights, , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9594 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 107	-	-	-	[PIN_107]: StopMotorInfo,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9595 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 107	-	-	-	[PIN_107]: StopMotorInfo,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9596 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 107	-	-	-	[PIN_107]: StopMotorInfo,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9597 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 107	-	-	-	[PIN_107]: StopMotorInfo,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9598 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 107	-	-	-	[PIN_107]: StopMotorInfo , , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		49 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test IL
,	Memorize	: PIN	1	,,			Reaction			
SPN: 9599	CAT: 5-red	C1:	-	-	-	[PIN_131]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				TurretPostSelector , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					condition exists according to		SDT: False	SDT: False	
						SPN - An input signal is too low / Short circuit to ground		STH: 0[-]	RTH: 0[-]	
SPN: 9600	CAT: 5-red	C1:	-	-	-	[PIN_131]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				TurretPostSelector , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					condition exists according to		SDT: False	SDT: False	
						SPN - An input signal is too		STH: 0[-]	RTH: 0[-]	
						high / Short circuit to power				
SPN: 9601	CAT: 5-red	C1:	-	-	-	[PIN_131]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				TurretPostSelector , , - Error		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					condition exists according to		SDT: False	SDT: False	
						SPN - An input signal is out		STH: 0[-]	RTH: 0[-]	
0000	047 5 1	0.4				of valid range				
SPN: 9602	CAT: 5-red	C1:	-	-	-	[PIN_131]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				TurretPostSelector , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					condition exists according to SPN - Warning: a block has		SDT: False	SDT: False	
						limited parameters		STH: 0[-]	RTH: 0[-]	
SPN: 9603	CAT: 5-red	C1:	-	-	-	[PIN_131]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				TurretPostSelector , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					condition exists according to		SDT: False	SDT: False	
						SPN - An initialization error		STH: 0[-]	RTH: 0[-]	
SPN: 9604	CAT: 5-red	C1:	-	-	-	[PIN_108]:	-	SC: -	RC: -	
FMI: 31	Type: Error	108				RadioPostSelector , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					condition exists according to		SDT: False	SDT: False	
						SPN - An input signal is too		STH: 0[-]	RTH: 0[-]	
0011 000-	0.47					low / Short circuit to ground				
SPN: 9605	CAT: 5-red	C1:	-	-	-	[PIN_108]:	-	SC: -	RC: - RDT: 1000ms	
FMI: 31	Type: Error	108				RadioPostSelector , , - Error		DDT: 500ms		
FMIex: 255	ESB: NOT					condition exists according to SPN - An input signal is too		SDT: False STH: 0[-]	SDT: False RTH: 0[-]	
						high / Short circuit to power		3111. 0[-]	NITT. 0[-]	
SPN: 9606	CAT: 5-red	C1:	 	_	+_	[PIN_108]:	†_	SC: -	RC: -	
FMI: 31	Type: Error	108				RadioPostSelector , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					condition exists according to		SDT: False	SDT: False	
ол. 200						SPN - An input signal is out		STH: 0[-]	RTH: 0[-]	
						of valid range				



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		50 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	'				Reaction			
SPN: 9607 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 108	-	-	-	[PIN_108]: RadioPostSelector,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9608 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 108	-	-	-	[PIN_108]: RadioPostSelector,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9609 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 132	-	-	-	[PIN_132]: NacellePostSelector,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9610 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 132	-	-	-	[PIN_132]: NacellePostSelector,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9611 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 132	-	-	-	[PIN_132]: NacellePostSelector,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9612 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 132	-	-	-	[PIN_132]: NacellePostSelector,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9613 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 132	-	-	-	[PIN_132]: NacellePostSelector,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		51 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
ыс	Memorize	: PIN	I	Component	Assemblies	Беѕсприоп	Reaction	Set Benavior	Release Deliavior	restrib
SPN: 9614 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 117	-	-	-	[PIN_117]: DeltaArmFoldedSensor,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9615 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 117	-	-	-	[PIN_117]: DeltaArmFoldedSensor,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9616 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 117	-	-	-	[PIN_117]: DeltaArmFoldedSensor,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9617 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 117	-	-	-	[PIN_117]: DeltaArmFoldedSensor,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9618 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 117	-	-	-	[PIN_117]: DeltaArmFoldedSensor,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9619 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 141	-	-	-	[PIN_141]: BoomArmFoldedSensor,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9620 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 141	-	-	-	[PIN_141]: BoomArmFoldedSensor,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

D-66273 SULZBACH/SAAR



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		52 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	<u>:</u>	I	, , ,		,	Reaction			
CDNI: 0624	CAT: Frod	PIN		_		[DIN 444]:		80:	RC: -	
SPN: 9621 FMI: 31	CAT: 5-red Type: Error	C1:	-	-	-	[PIN_141]: BoomArmFoldedSensor	-	SC: - DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	''				Error condition exists		SDT: False	SDT: False	
1 WICK. 200	LOB. NOT					according to SPN - An input		STH: 0[-]	RTH: 0[-]	
						signal is out of valid range		5 · · · · o[]		
SPN: 9622	CAT: 5-red	C1:	-	-	-	[PIN_141]:	-	SC: -	RC: -	
FMI: 31	Type: Error	141				BoomArmFoldedSensor,, -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					Error condition exists		SDT: False	SDT: False	
						according to SPN - Warning:		STH: 0[-]	RTH: 0[-]	
						a block has limited parameters				
SPN: 9623	CAT: 5-red	C1:	+	_	<u> </u>	[PIN_141]:		SC: -	RC: -	+
FMI: 31	Type: Error	141				BoomArmFoldedSensor,, -		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					Error condition exists		SDT: False	SDT: False	
						according to SPN - An		STH: 0[-]	RTH: 0[-]	
						initialization error				
SPN: 9624	CAT: 5-red	C1:	-	-	-	[PIN_148]:	-	SC: -	RC: -	
FMI: 31	Type: Error	148				AlternatorChargeOK , , -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					Error condition exists		SDT: False	SDT: False	
						according to SPN - An input signal is too low / Short circuit		STH: 0[-]	RTH: 0[-]	
						to ground				
SPN: 9625	CAT: 5-red	C1:	-	-	-	[PIN_148]:	-	SC: -	RC: -	
FMI: 31	Type: Error	148				AlternatorChargeOK , , -		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					Error condition exists		SDT: False	SDT: False	
						according to SPN - An input		STH: 0[-]	RTH: 0[-]	
						signal is too high / Short				
SPN: 9626	CAT: 5-red	C1:	1			circuit to power		SC: -	RC: -	
FMI: 31	Type: Error	148	-	-	-	[PIN_148]: AlternatorChargeOK , , -	-	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	170				Error condition exists		SDT: False	SDT: False	
1 Milox. 200	202. 1101					according to SPN - An input		STH: 0[-]	RTH: 0[-]	
						signal is out of valid range				
SPN: 9627	CAT: 5-red	C1:	-	-	-	[PIN_148]:	-	SC: -	RC: -	
FMI: 31	Type: Error	148				AlternatorChargeOK , , -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					Error condition exists		SDT: False	SDT: False	
						according to SPN - Warning:		STH: 0[-]	RTH: 0[-]	
						a block has limited parameters				
						parameters				



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		53 of 102

	1						1			
DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	'				Reaction			
SPN: 9628	CAT: 5-red	C1:	-	-	-	[PIN_148]:	-	SC: -	RC: -	
FMI: 31	Type: Error	148				AlternatorChargeOK , , -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					Error condition exists		SDT: False	SDT: False	
						according to SPN - An		STH: 0[-]	RTH: 0[-]	
						initialization error				
SPN: 9633	CAT: 5-red	C1:	-	-	-	[PIN_176]: OverloadSecurity	-	SC: -	RC: -	
FMI: 31	Type: Error	176				, , - Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HS		SDT: False	SDT: False	
						OpenLoad / Short To Power		STH: 0[-]	RTH: 0[-]	
0001		-				external				
SPN: 9634	CAT: 5-red	C1:	-	-	-	[PIN_176]: OverloadSecurity	-	SC: -	RC: -	
FMI: 31	Type: Error	176				, , - Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
0011 0005	0.7	-				To Power internal		STH: 0[-]	RTH: 0[-]	
SPN: 9635	CAT: 5-red	C1:	-	-	-	[PIN_176]: OverloadSecurity	-	SC: -	RC: -	
FMI: 31	Type: Error	176				, , - Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
ODN: 0000	OAT: 5	04:				To Ground		STH: 0[-]	RTH: 0[-]	
SPN: 9636 FMI: 31	CAT: 5-red	C1:	-	-	-	[PIN_176]: OverloadSecurity	-	SC: - DDT: 500ms	RC: - RDT: 1000ms	
FMI: 31 FMIex: 255	Type: Error ESB: NOT	176				, , - Error condition exists		SDT: False	SDT: False	
Fivilex: 255	ESB: NOT					according to SPN - Internal Driver Error				
SPN: 9637	CAT: 5-red	C1:	+					STH: 0[-] SC: -	RTH: 0[-] RC: -	
FMI: 31	Type: Error	152	-	-	-	[PIN_152]: SupllyTorSensors , , - Error condition exists	-	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	132				according to SPN - HS		SDT: False	SDT: False	
FIVILEX. 200	ESB. NOT					OpenLoad / Short To Power		STH: 0[-]	RTH: 0[-]	
						external		311.0[-]	K111. 0[-]	
SPN: 9638	CAT: 5-red	C1:	-	† <u>-</u>	_	[PIN_152]: SupllyTorSensors	_	SC: -	RC: -	
FMI: 31	Type: Error	152				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	'				according to SPN - HS Short		SDT: False	SDT: False	
						To Power internal		STH: 0[-]	RTH: 0[-]	
SPN: 9639	CAT: 5-red	C1:	-	-	-	[PIN_152]: SupllyTorSensors	-	SC: -	RC: -	
FMI: 31	Type: Error	152				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
						To Ground		STH: 0[-]	RTH: 0[-]	
SPN: 9640	CAT: 5-red	C1:	-	-	-	[PIN_152]: SupllyTorSensors	-	SC: -	RC: -	
FMI: 31	Type: Error	152				, , - Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Internal		SDT: False	SDT: False	
						Driver Error		STH: 0[-]	RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		54 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9645 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 153	-	-	-	[PIN_153]: SupllyAnaSensors ,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9646 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 153	-	-	-	[PIN_153]: SupllyAnaSensors ,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9647 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 153	-	-	-	[PIN_153]: SupllyAnaSensors , , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9648 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 153	-	-	-	[PIN_153]: SupllyAnaSensors , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9649 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 159	-	-	-	[PIN_159]: EvSyncRotation,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9650 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 159	-	-	-	[PIN_159]: EvSyncRotation,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9651 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 159	-	-	-	[PIN_159]: EvSyncRotation,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9652 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 159	-	-	-	[PIN_159]: EvSyncRotation,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9653 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 156	-	-	_	[PIN_156]: SupplyAnaSensors,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		55 of 102

DTC	Category Type Memorize	ECU	Labe	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
	Wemonze	PIN	'				Reaction			
SPN: 9654 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 156	-	-	-	[PIN_156]: SupplyAnaSensors,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9655 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 156	-	-	-	[PIN_156]: SupplyAnaSensors,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9656 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 156	-	-	-	[PIN_156]: SupplyAnaSensors,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9064 FMI: 3 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 104	-	-	-	[PIN_104]: TemperatureTransmissionSen sor,, - Short to Power (Voltage High)- Master input signal short to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9065 FMI: 4 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 104	-	-	-	[PIN_104]: TemperatureTransmissionSen sor,, - Short to Ground (Voltage Low)- Master input signal short to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9066 FMI: 24 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 104	-	-	-	[PIN_104]: TemperatureTransmissionSen sor,, - Logical Error (SW Failure)- Parameter of input char NOT monoton	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9067 FMI: 12 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 104	-	-	-	[PIN_104]: TemperatureTransmissionSen sor , , - Internal Controller Error- Unknown internal error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9115 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 132	-	-	-	[PIN_132]: UpOscillantAxle,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		56 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9116 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 132	-	-	-	[PIN_132]: UpOscillantAxle,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9117 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 132	-	-	-	[PIN_132]: UpOscillantAxle,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9118 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 132	-	-	-	[PIN_132]: UpOscillantAxle,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9119 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 132	-	-	-	[PIN_132]: UpOscillantAxle,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9120 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 109	-	-	-	[PIN_109]: UpFixeAxle,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9121 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 109	-	-	-	[PIN_109]: UpFixeAxle,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9122 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 109	-	-	-	[PIN_109]: UpFixeAxle,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9123 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 109	-	-	-	[PIN_109]: UpFixeAxle,,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9124 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 109	-	-	-	[PIN_109]: UpFixeAxle,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC DOC NO. -

HYDAC INTERNATIONAL GMBH INDUSTRIEGEBIET WERK 15

D-66273 SULZBACH/SAAR



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		57 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	'				Reaction			
SPN: 9125 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 252	-	-	-	[PIN_252]: PvgLeftTrackLowside,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9126 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 252	-	-	-	[PIN_252]: PvgLeftTrackLowside,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9127 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 252	-	-	-	[PIN_252]: PvgLeftTrackLowside,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9128 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 252	-	-	-	[PIN_252]: PvgLeftTrackLowside,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9197 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 239	-	-	-	[PIN_239]: PvgRightTrackLowside,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9198 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 239	-	1	-	[PIN_239]: PvgRightTrackLowside,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9199 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 239	-	-	-	[PIN_239]: PvgRightTrackLowside,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		58 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	<i>'</i>				Reaction			
SPN: 9200 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 239	-	-	-	[PIN_239]: PvgRightTrackLowside,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9201 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 133 C0: 107	-	-	-	[PIN_133 PIN_107]: FrameRotationSensor1,, - Error condition exists according to SPN - Logical Error between pin 0 and 1	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9202 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 133 C0: 107	-	-	-	[PIN_133 PIN_107]: FrameRotationSensor1,, - Error condition exists according to SPN - Vin0 < u16VolLoMin	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9203 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 133 C0: 107	-	-	-	[PIN_133 PIN_107]: FrameRotationSensor1,, - Error condition exists according to SPN - Vin0 > u16VolHiMax	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9204 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 133 C0: 107	-	-	-	[PIN_133 PIN_107]: FrameRotationSensor1,, - Error condition exists according to SPN - u16VolLoMax < Vin0 < u16VolHiMin	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9205 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 133 C0: 107	-	-	-	[PIN_133 PIN_107]: FrameRotationSensor1,, - Error condition exists according to SPN - Vin1 < u16VolLoMin	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9206 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 133 C0: 107	-	-	-	[PIN_133 PIN_107]: FrameRotationSensor1 , , - Error condition exists according to SPN - Vin1 > u16VolHiMax	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		59 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9207 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 133 C0: 107	-	-	-	[PIN_133 PIN_107]: FrameRotationSensor1,, - Error condition exists according to SPN - u16VolLoMax < Vin1 < u16VolHiMin	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9208 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 114 C0: 112	-	-	-	[PIN_114 PIN_112]: FrameRotationSensor2,, - Error condition exists according to SPN - Logical Error between pin 0 and 1	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9209 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 114 C0: 112	-	-	-	[PIN_114 PIN_112]: FrameRotationSensor2,, - Error condition exists according to SPN - Vin0 < u16VolLoMin	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9210 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 114 C0: 112	-	-	-	[PIN_114 PIN_112]: FrameRotationSensor2,, - Error condition exists according to SPN - Vin0 > u16VolHiMax	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9211 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 114 C0: 112	-	-	-	[PIN_114 PIN_112]: FrameRotationSensor2,, - Error condition exists according to SPN - u16VolLoMax < Vin0 < u16VolHiMin	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9212 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 114 C0: 112	-	-	-	[PIN_114 PIN_112]: FrameRotationSensor2,, - Error condition exists according to SPN - Vin1 < u16VolLoMin	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9213 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 114 C0: 112	-	-	-	[PIN_114 PIN_112]: FrameRotationSensor2,, - Error condition exists according to SPN - Vin1 > u16VolHiMax	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		60 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1	,		•	Reaction			
		PIN								
SPN: 9214	CAT: 5-red	C0:	-	-	-	[PIN_114 PIN_112]:	-	SC: -	RC: -	
FMI: 31	Type: Error	114				FrameRotationSensor2 , , -		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT	C0:				Error condition exists		SDT: False	SDT: False	
		112				according to SPN -		STH: 0[-]	RTH: 0[-]	
						u16VolLoMax < Vin1 <				
ODN: 4470	0.47: 0 ===4	00				u16VolHiMin		00:	DO:	
SPN: 1173 FMI: 31	CAT: 0-not Type: Error	C0	-	-	-	[-]: CAN_BUS3 , , - Error condition exists according to	-	SC: - DDT: 500ms	RC: - RDT: 1000ms	
FMI: 31 FMIex: 255	ESB: NOT					SPN - CAN Bus off		SDT: False	SDT: False	
Fivilex. 200	ESB. NOT					SPIN - CAIN BUS OII		STH: 0[-]	RTH: 0[-]	
SPN: 1174	CAT: 0-not	C0	-			[-]: CAN_BUS3 , , - Error		SC: -	RC: -	
FMI: 31	Type: Error	00	-	-	-	condition exists according to	-	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - CAN warning		SDT: False	SDT: False	
1 WICX. 200	LOB. NOT					Of N - OAN Warning		STH: 0[-]	RTH: 0[-]	
SPN: 1175	CAT: 0-not	C0	-	_	_	[-]: CBUS3 HWBUF SND0,,	_	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
	202					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1176	CAT: 0-not	C0	-	-	-	[-]: CBUS3 HWBUF SND1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1177	CAT: 0-not	C0	-	-	-	[-]: CBUS3_HWBUF_SND2,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1178	CAT: 0-not	C0	-	-	-	[-]: CBUS3_HWBUF_SND3,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
0001 44-0	0.7					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1179	CAT: 0-not	C0	-	-	-	[-]: CBUS3_HWBUF_SND4 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW- Buffer overflow send		SDT: False STH: 0[-]	SDT: False RTH: 0[-]	
SPN: 1180	CAT: 0-not	C0				[-]: CBUS3_HWBUF_SND5 , ,		SC: -	RC: -	
FMI: 31	Type: Error	00	-	-	-	- Error condition exists	-	DDT: 500ms	RC RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
I WIICA. 200	LOD. NOT					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
	1					Danei Overnow Stila		O 11 1. V[-]	1X111. U[-]	1



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		61 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 1181	CAT: 0-not	CO	-	_	_	[-]: CBUS3 HWBUF RCV0,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
	202					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1182	CAT: 0-not	C0	-	-	_	[-]: CBUS3_HWBUF_RCV1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1183	CAT: 0-not	C0	-	_	-	[-]: CBUS3_HWBUF_RCV2,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1184	CAT: 0-not	C0	-	-	_	[-]: CBUS3 HWBUF RCV3	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
	202					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1185	CAT: 0-not	C0	-	_	-	[-]: CBUS3_HWBUF_RCV4,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1186	CAT: 0-not	C0	-	-	-	[-]: CBUS3 HWBUF RCV5,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1187	CAT: 0-not	C0	-	-	-	[-]: CBUS3 HWBUF RCV6 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1188	CAT: 0-not	C0	-	-	-	[-]: CBUS3_HWBUF_RCV7,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1189	CAT: 0-not	C0	-	-	-	[-]: CBUS3_CBUF_SND_1,,	-	SC: -	RC: -	
FMI: 31	Type: Error		1			- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT		1			according to SPN - Software		SDT: False	SDT: False	
			<u> </u>			Buffer SW-Overflow		STH: 0[-]	RTH: 0[-]	
SPN: 1190	CAT: 0-not	C0	-	-	-	[-]: CBUS3_CBUF_RCV_1,,	-	SC: -	RC: -	
FMI: 31	Type: Error		1			- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT		1			according to SPN - Software		SDT: False	SDT: False	
						Buffer SW-Overflow		STH: 0[-]	RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		62 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	'				Reaction			
SPN: 9264 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 251	-	-	-	[PIN_251]: ReturnLowSideEvForwardPu mp,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9265 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 251	-	-	-	[PIN_251]: ReturnLowSideEvForwardPu mp,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9266 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 251	-	-	-	[PIN_251]: ReturnLowSideEvForwardPu mp,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9267 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 251	-	-	-	[PIN_251]: ReturnLowSideEvForwardPu mp,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9268 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 238	-	-	-	[PIN_238]: ReturnLowSideEvBackwardP ump,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9269 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 238	-		-	[PIN_238]: ReturnLowSideEvBackwardP ump,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9270 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 238	-	-	-	[PIN_238]: ReturnLowSideEvBackwardP ump,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
I	Neotec skyrailer	MSEH		63 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	'				Reaction			
SPN: 9276 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 238	-	-	-	[PIN_238]: ReturnLowSideEvBackwardP ump,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9282 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 177	-	-	-	[PIN_177]: EvSelectorRotTurret,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9283 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 177	-	-	-	[PIN_177]: EvSelectorRotTurret,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9284 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 177	-	-	-	[PIN_177]: EvSelectorRotTurret,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9285 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 177	-	-	-	[PIN_177]: EvSelectorRotTurret , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9286 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 163	-	-	-	[PIN_163]: KlaxonNeotec , , - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9287 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 163	-	-	-	[PIN_163]: KlaxonNeotec , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9288 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 163	-	-	-	[PIN_163]: KlaxonNeotec , , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		64 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9289 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 163	-	-	-	[PIN_163]: KlaxonNeotec , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9290 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 177	-	-	-	[PIN_177]: EvUnBlockOscillationAxle,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9296 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 177	-	-	-	[PIN_177]: EvUnBlockOscillationAxle,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9297 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 177	-	-	-	[PIN_177]: EvUnBlockOscillationAxle,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9298 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 177	-	-	-	[PIN_177]: EvUnBlockOscillationAxle,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9299 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 186	-	-	-	[PIN_186]: EvParkBrakeAxleOscillant,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9300 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 186	-	-	-	[PIN_186]: EvParkBrakeAxleOscillant,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9301 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 186	-	-	-	[PIN_186]: EvParkBrakeAxleOscillant,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls

MSC

DOC NO. -

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15

D-66273 SULZBACH/SAAR



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		65 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9302 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 186	-	-	-	[PIN_186]: EvParkBrakeAxleOscillant,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9303 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 162	-	-	-	[PIN_162]: EvParkBrakeAxleFixe,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9304 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 162	-	-	-	[PIN_162]: EvParkBrakeAxleFixe,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9305 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 162	-	-	-	[PIN_162]: EvParkBrakeAxleFixe,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9306 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 162	-	-	-	[PIN_162]: EvParkBrakeAxleFixe,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9307 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 189	-	-	-	[PIN_189]: EvServiceBrakeAxleOscillant, , - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9308 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 189	-	-	-	[PIN_189]: EvServiceBrakeAxleOscillant, , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
Proje	ct_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	ŀ	Resp. Division:	Resp.Author:	Page:
Neotec sk	yrailer	MSEH	·	66 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9309 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 189	-	-	-	[PIN_189]: EvServiceBrakeAxleOscillant, , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9320 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 189	-	-	-	[PIN_189]: EvServiceBrakeAxleOscillant, , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9330 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 193	-	-	-	[PIN_193]: EvUpAxleOscillant,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9331 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 193	-	-	-	[PIN_193]: EvUpAxleOscillant,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9332 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 193	-	-	-	[PIN_193]: EvUpAxleOscillant,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9333 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 193	-	-	-	[PIN_193]: EvUpAxleOscillant,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9374 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 196	-	-	-	[PIN_196]: EvUpAxleFixe,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9375 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 196	-	-	-	[PIN_196]: EvUpAxleFixe,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9376 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 196	-	-	-	[PIN_196]: EvUpAxleFixe,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15

D-66273 SULZBACH/SAAR



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		67 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9377 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 196	-	-	-	[PIN_196]: EvUpAxleFixe,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9378 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 169	-	-	-	[PIN_169]: EvDownAxleOscillant,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9397 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 169	-	-	-	[PIN_169]: EvDownAxleOscillant , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9398 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 169	-	-	-	[PIN_169]: EvDownAxleOscillant,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9399 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 169	-	-	-	[PIN_169]: EvDownAxleOscillant,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9400 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 172	-	-	-	[PIN_172]: EvDownAxleFixe,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9417 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 172	-	-	-	[PIN_172]: EvDownAxleFixe,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9418 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 172	-	-	-	[PIN_172]: EvDownAxleFixe,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		68 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test IL
SPN: 9419 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 172	-	-	-	[PIN_172]: EvDownAxleFixe,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9552 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 124	-	-	-	[PIN_124]: Aru1Contact,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9553 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 124	-	-	-	[PIN_124]: Aru1Contact,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9554 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 124	-	-	-	[PIN_124]: Aru1Contact,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9555 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 124	-	-	-	[PIN_124]: Aru1Contact,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9641 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 124	-	-	-	[PIN_124]: Aru1Contact,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9642 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 148	-	-	-	[PIN_148]: Aru2Contact,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9643 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 148	-	-	-	[PIN_148]: Aru2Contact,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9644 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 148	-	-	-	[PIN_148]: Aru2Contact,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC

Sulzbach INDUSTRIEGEBIET WERK 15 D-66273 SULZBACH/SAAR

HYDAC INTERNATIONAL GMBH



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		69 of 102

DTC	Category Type Memorize	ECU ·	Labe	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
	Wellionze	PIN	l '				Neaction			
SPN: 9657 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 148	-	-	-	[PIN_148]: Aru2Contact,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9658 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 148	-	-	-	[PIN_148]: Aru2Contact , , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9659 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 128	-	-	-	[PIN_128]: AruRadio1Contact ,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9660 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 128	-	-	-	[PIN_128]: AruRadio1Contact ,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9661 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 128	-	-	-	[PIN_128]: AruRadio1Contact ,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9662 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 128	-	-	-	[PIN_128]: AruRadio1Contact ,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9663 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 128	-	-	-	[PIN_128]: AruRadio1Contact ,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9664 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 105	-	-	-	[PIN_105]: AruRadio2Contact ,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		70 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9665 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 105	-	-	-	[PIN_105]: AruRadio2Contact ,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9666 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 105	-	-	-	[PIN_105]: AruRadio2Contact ,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9667 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 105	-	-	-	[PIN_105]: AruRadio2Contact ,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9668 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 105	-	-	-	[PIN_105]: AruRadio2Contact , , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9669 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 183	-	-	-	[PIN_183]: Noisemaker , , - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9670 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 183	-	-	-	[PIN_183]: Noisemaker , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9671 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 183	-	-	-	[PIN_183]: Noisemaker , , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9672 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 183	-	-	-	[PIN_183]: Noisemaker , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9673 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 154	-	-	_	[PIN_154]: EvRotTurretClkwise,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

D-66273 SULZBACH/SAAR



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		71 of 102

DTC	Cotogony Turns	ECU	Lobo	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
DIC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Reaction	Set Benavior	Release Benavior	restib
SPN: 9674 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 154	-	-	-	[PIN_154]: EvRotTurretClkwise,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9675 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 154	-	-	-	[PIN_154]: EvRotTurretClkwise,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9676 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 154	-	-	-	[PIN_154]: EvRotTurretClkwise,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9677 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 178	-	-	-	[PIN_178]: EvRotTurretCtClkwise,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9678 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 178	-	-	-	[PIN_178]: EvRotTurretCtClkwise,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9679 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 178	-	-	-	[PIN_178]: EvRotTurretCtClkwise,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9680 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 178	-	-	-	[PIN_178]: EvRotTurretCtClkwise,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9681 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 157	-	-	-	[PIN_157]: EvRotBasketCtClkwise,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		72 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9682 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 157	-	-	-	[PIN_157]: EvRotBasketCtClkwise,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9683 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 157	-	-	-	[PIN_157]: EvRotBasketCtClkwise,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9684 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 157	-	-	-	[PIN_157]: EvRotBasketCtClkwise,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9685 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 181	-	-	-	[PIN_181]: EvRotBasketClkwise,,,- Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9686 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 181	-	-	-	[PIN_181]: EvRotBasketClkwise , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9687 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 181	-	-	-	[PIN_181]: EvRotBasketClkwise,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9688 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 181	-	-	-	[PIN_181]: EvRotBasketClkwise , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9689 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 160	-	-	_	[PIN_160]: EvUpPendular,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

D-66273 SULZBACH/SAAR



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		73 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
2.0	Memorize	: PIN	I	Component	71000	2000., p.10	Reaction	00,20,12,10		1001.12
SPN: 9690	CAT: 5-red	C1:	_	-	_	[PIN_160]: EvUpPendular,,	-	SC: -	RC: -	
FMI: 31	Type: Error	160				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
						To Power internal		STH: 0[-]	RTH: 0[-]	
SPN: 9691	CAT: 5-red	C1:	-	_	-	[PIN_160]: EvUpPendular,,	-	SC: -	RC: -	
FMI: 31	Type: Error	160				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
						To Ground		STH: 0[-]	RTH: 0[-]	
SPN: 9692	CAT: 5-red	C1:	-	-	-	[PIN_160]: EvUpPendular,,	-	SC: -	RC: -	
FMI: 31	Type: Error	160				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Internal		SDT: False	SDT: False	
						Driver Error		STH: 0[-]	RTH: 0[-]	
SPN: 9693	CAT: 5-red	C1:	-	-	-	[PIN_184]: EvDownPendular	-	SC: -	RC: -	
FMI: 31	Type: Error	184				, , - Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HS		SDT: False	SDT: False	
						OpenLoad / Short To Power		STH: 0[-]	RTH: 0[-]	
						external				
SPN: 9694	CAT: 5-red	C1:	-	-	-	[PIN_184]: EvDownPendular	-	SC: -	RC: -	
FMI: 31	Type: Error	184				, Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
						To Power internal		STH: 0[-]	RTH: 0[-]	
SPN: 9695	CAT: 5-red	C1:	-	-	-	[PIN_184]: EvDownPendular	-	SC: -	RC: -	
FMI: 31	Type: Error	184				, , - Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
						To Ground		STH: 0[-]	RTH: 0[-]	
SPN: 9696	CAT: 5-red	C1:	-	-	-	[PIN_184]: EvDownPendular	-	SC: -	RC: -	
FMI: 31	Type: Error	184				, , - Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - Internal		SDT: False	SDT: False	
						Driver Error		STH: 0[-]	RTH: 0[-]	
SPN: 9697	CAT: 5-red	C1:	-	-	-	[PIN_187]:	-	SC: -	RC: -	
FMI: 31	Type: Error	187				EvUpInclinaisonBasket		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					Error condition exists		SDT: False	SDT: False	
						according to SPN - HS		STH: 0[-]	RTH: 0[-]	
						OpenLoad / Short To Power				
						external				
SPN: 9698	CAT: 5-red	C1:	-	-	-	[PIN_187]:	-	SC: -	RC: -	
FMI: 31	Type: Error	187				EvUpInclinaisonBasket , , -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	1				Error condition exists		SDT: False	SDT: False	
						according to SPN - HS Short		STH: 0[-]	RTH: 0[-]	
						To Power internal		''	''	1



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		74 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
2.0	Memorize	: PIN	I	Component	7 to Communico	2000p.uo	Reaction	Cot Bonavior	Noisues Zonavio	1001.2
SPN: 9699 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 187	-	-	-	[PIN_187]: EvUpInclinaisonBasket,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9700 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 187	-	-	-	[PIN_187]: EvUpInclinaisonBasket,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9701 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 163	-	-	-	[PIN_163]: EvDownInclinaisonBasket,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9702 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 163	-	-	-	[PIN_163]: EvDownInclinaisonBasket,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9703 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 163	-	-	-	[PIN_163]: EvDownInclinaisonBasket,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9704 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 163	-	-	-	[PIN_163]: EvDownInclinaisonBasket , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9705 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 137	-	-	-	[PIN_137]: Aru1,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9706 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 137	-	-	-	[PIN_137]: Aru1,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		75 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 9707	CAT: 5-red	C1:	-	-	-	[PIN_137]: Aru1 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error	137				condition exists according to		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					SPN - An input signal is out		SDT: False	SDT: False	
ODNI: 0700	OAT: Fired	04:				of valid range		STH: 0[-] SC: -	RTH: 0[-]	
SPN: 9708 FMI: 31	CAT: 5-red Type: Error	C1: 137	-	-	-	[PIN_137]: Aru1,, - Error condition exists according to	-	DDT: 500ms	RC: - RDT: 1000ms	
FMIex: 255	ESB: NOT	137				SPN - Warning: a block has		SDT: False	SDT: False	
Fivilex. 255	ESB. NOT					limited parameters		STH: 0[-]	RTH: 0[-]	
SPN: 9709	CAT: 5-red	C1:	l _	_	_	[PIN_137]: Aru1 , , - Error	_	SC: -	RC: -	
FMI: 31	Type: Error	137	_			condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - An initialization error		SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 9710	CAT: 5-red	C1:	-	-	-	[PIN_138]: Aru2,, - Error	-	SC: -	RC: -	
FMI: 31	Type: Error	138				condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - An input signal is too		SDT: False	SDT: False	
						low / Short circuit to ground		STH: 0[-]	RTH: 0[-]	
SPN: 9711	CAT: 5-red	C1:	-	-	-	[PIN_138]: Aru2,, - Error	-	SC: -	RC: -	
FMI: 31	Type: Error	138				condition exists according to		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					SPN - An input signal is too		SDT: False	SDT: False	
						high / Short circuit to power		STH: 0[-]	RTH: 0[-]	
SPN: 9712	CAT: 5-red	C1:	-	-	-	[PIN_138]: Aru2 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error	138				condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - An input signal is out of valid range		SDT: False STH: 0[-]	SDT: False RTH: 0[-]	
SPN: 9713	CAT: 5-red	C1:				[PIN_138]: Aru2,, - Error		SC: -	RC: -	
FMI: 31	Type: Error	138	-	-	-	condition exists according to	-	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	130				SPN - Warning: a block has		SDT: False	SDT: False	
I WIICX. 200	LOD. NOT					limited parameters		STH: 0[-]	RTH: 0[-]	
SPN: 9714	CAT: 5-red	C1:	-	-	-	[PIN_138]: Aru2,, - Error	-	SC: -	RC: -	
FMI: 31	Type: Error	138				condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - An initialization error		SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 9715	CAT: 5-red	C1:	-	-	-	[PIN_113]:	-	SC: -	RC: -	
FMI: 31	Type: Error	113				EntryTelescopeFdcSensor , ,		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					- Error condition exists		SDT: False	SDT: False	
						according to SPN - An input		STH: 0[-]	RTH: 0[-]	
						signal is too low / Short circuit				
						to ground				



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		76 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9716 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 113	-	-	-	[PIN_113]: EntryTelescopeFdcSensor,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9717 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 113	-	-	-	[PIN_113]: EntryTelescopeFdcSensor,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9718 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 113	-	-	-	[PIN_113]: EntryTelescopeFdcSensor,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9719 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 113	-	-	-	[PIN_113]: EntryTelescopeFdcSensor , , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9720 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 165	-	-	-	[PIN_165]: EvServiceBrakeAxleFixe,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9721 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 165	-	-	-	[PIN_165]: EvServiceBrakeAxleFixe , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9722 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 165	-	-	-	[PIN_165]: EvServiceBrakeAxleFixe,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
F	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Neot	tec skyrailer	MSEH		77 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
Dic	Memorize	: PIN	I	Component	Assemblies	Description	Reaction	Set Dellavior	Nelease Bellavior	restrib
SPN: 9723 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 165	-	-	-	[PIN_165]: EvServiceBrakeAxleFixe,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: RC00_VEHICLE_STOPPED RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9724 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0 , , - Error condition exists according to SPN - if Aru contact is pushed , stop movement	RM_ARU_ACTIVE _C0	SC: SC_SET_ARU_RM_CO DDT: 300ms SDT: False STH: [-]	RC: - RDT: 1000ms SDT: False RTH: [-]	
SPN: 9725 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0 , , - Error condition exists according to SPN - if Aru radio is pushed , stop movement	RM_ARU_RADIO_ C0	SC: SC_SET_ARU_RADIO_CO DDT: 300ms SDT: False STH: [-]	RC: - RDT: 1000ms SDT: False RTH: [-]	
SPN: 9726 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1 , , - Error condition exists according to SPN - if Aru contact is pushed , stop movement	RM_ARU_ACTIVE _C1	SC: SC_SET_ARU_RM_C1 DDT: 300ms SDT: False STH: [-]	RC: - RDT: 1000ms SDT: False RTH: [-]	
SPN: 9727 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1 , , - Error condition exists according to SPN - if Aru radio is pushed , stop movement	RM_ARU_ACTIVE _C1	SC: SC_SET_ARU_RADIO_C1 DDT: 100ms SDT: False STH: [-]	RC: - RDT: 1000ms SDT: False RTH: [-]	
SPN: 9728 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 238	-	-	-	[PIN_238]: ReturnLowSideEvProAccMoto r,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9729 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 238	-	-	-	[PIN_238]: ReturnLowSideEvProAccMoto r,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9730 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 238	-	-	-	[PIN_238]: ReturnLowSideEvProAccMoto r,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Ne	otec skyrailer	MSEH		78 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	<i>'</i>				Reaction			
SPN: 9731 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 238	-	-	-	[PIN_238]: ReturnLowSideEvProAccMoto r,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9732 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 252	-	-	-	[PIN_252]: ReturnLowSideEvProGenerat or , , - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9733 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 252	-	-	-	[PIN_252]: ReturnLowSideEvProGenerat or , , - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9734 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 252	-	-	-	[PIN_252]: ReturnLowSideEvProGenerat or , , - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9735 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1: 252	-	-	-	[PIN_252]: ReturnLowSideEvProGenerat or , , - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9736 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 123	-	-	-	[PIN_123]: RegimeMoteurAlternator,, - Error condition exists according to SPN - Input is short to Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9737 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 123	-	-	-	[PIN_123]: RegimeMoteurAlternator,, - Error condition exists according to SPN - Input is short to Power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9738 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 123	-	-	-	[PIN_123]: RegimeMoteurAlternator,, - Error condition exists according to SPN - Wrong Parameter	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15

D-66273 SULZBACH/SAAR



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Neo	tec skyrailer	MSEH	•	79 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1			, , ,	Reaction			
0.001	0.17	PIN				TDW 400 I				
SPN: 9739 FMI: 31	CAT: 5-red Type: Error	C1:	-	-	-	[PIN_123]:	-	SC: - DDT: 500ms	RC: - RDT: 1000ms	
FMIex: 255	ESB: NOT	123				RegimeMoteurAlternator , , - Error condition exists		SDT: False	SDT: False	
I MIEX. 200	LOB. NOT					according to SPN - Unknown		STH: 0[-]	RTH: 0[-]	
						Error		3111. 0[-]	Κ111. 0[-]	
SPN: 9756	CAT: 5-red	C1:	-	-	-	[PIN 104 PIN 128]:	-	SC: -	RC: -	
FMI: 3	Type: Error	104				DeltaArmAngularSensor , , -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C1:				Short to Power (Voltage		SDT: False	SDT: False	
		128				High)- Master input signal		STH: 0[-]	RTH: 0[-]	
						short to power				
SPN: 9757	CAT: 5-red	C1:	-	-	-	[PIN_104 PIN_128]:	-	SC: -	RC: -	
FMI: 4	Type: Error	104				DeltaArmAngularSensor , , -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C1:				Short to Ground (Voltage		SDT: False	SDT: False	
		128				Low)- Master input signal		STH: 0[-]	RTH: 0[-]	
001 0750	0.47 5 1	0.4				short to ground			RC: -	
SPN: 9758	CAT: 5-red	C1:	-	-	-	[PIN_104 PIN_128]:	-	SC: - DDT: 500ms	RC: - RDT: 1000ms	
FMI: 3 FMIex: 255	Type: Error ESB: NOT	C1:				DeltaArmAngularSensor , , - Short to Power (Voltage		SDT: False	SDT: False	
Fivilex. 200	ESB. INUT	128				High)- Slave input signal		STH: 0[-]	RTH: 0[-]	
		120				short to power		3111. 0[-]	17111. O[-]	
SPN: 9759	CAT: 5-red	C1:	-	_	_	[PIN_104 PIN_128]:	_	SC: -	RC: -	
FMI: 4	Type: Error	104				DeltaArmAngularSensor , , -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C1:				Short to Ground (Voltage		SDT: False	SDT: False	
		128				Low)- Slave input signal short		STH: 0[-]	RTH: 0[-]	
						to ground				
SPN: 9760	CAT: 5-red	C1:	-	-	-	[PIN_104 PIN_128]:	-	SC: -	RC: -	
FMI: 26	Type: Error	104				DeltaArmAngularSensor , , -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C1:				Out of Valid Range-		SDT: False	SDT: False	
		128				Deviation of signals out of		STH: 0[-]	RTH: 0[-]	
ODN: 0704	OAT: 5 and	04:				limit		100		
SPN: 9761	CAT: 5-red	C1:	-	-	-	[PIN_104 PIN_128]:	-	SC: -	RC: -	
FMI: 14 FMIex: 255	Type: Error ESB: NOT	104 C1:				DeltaArmAngularSensor , , -		DDT: 500ms SDT: False	RDT: 1000ms SDT: False	
FIVILEX. 200	ESB. NUI	128				Special Instructions- Limp mode active		STH: 0[-]	RTH: 0[-]	
SPN: 9762	CAT: 5-red	C1:	 	_	_	[PIN 104 PIN 128]:	_	SC: -	RC: -	
FMI: 24	Type: Error	104	-			DeltaArmAngularSensor , , -		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C1:				Logical Error (SW Failure)-		SDT: False	SDT: False	
1		128				Parameter of input char NOT		STH: 0[-]	RTH: 0[-]	
						monoton				



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		80 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9763 FMI: 12 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 104 C1: 128	-	-	-	[PIN_104 PIN_128]: DeltaArmAngularSensor,, - Internal Controller Error- Unknown internal error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9764 FMI: 3 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 105 C1: 129	-	-	-	[PIN_105 PIN_129]: ArrowArmAngularSensor,, - Short to Power (Voltage High)- Master input signal short to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9765 FMI: 4 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 105 C1: 129	-	-	-	[PIN_105 PIN_129]: ArrowArmAngularSensor , , - Short to Ground (Voltage Low)- Master input signal short to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9766 FMI: 3 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 105 C1: 129	-	-	-	[PIN_105 PIN_129]: ArrowArmAngularSensor , , - Short to Power (Voltage High)- Slave input signal short to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9767 FMI: 4 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 105 C1: 129	-	-	-	[PIN_105 PIN_129]: ArrowArmAngularSensor,, - Short to Ground (Voltage Low)- Slave input signal short to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9768 FMI: 26 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 105 C1: 129	-	-	-	[PIN_105 PIN_129]: ArrowArmAngularSensor , , - Out of Valid Range- Deviation of signals out of limit	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9769 FMI: 14 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 105 C1: 129	-	-	-	[PIN_105 PIN_129]: ArrowArmAngularSensor,, - Special Instructions- Limp mode active	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9770 FMI: 24 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 105 C1: 129	-	-	-	[PIN_105 PIN_129]: ArrowArmAngularSensor,, - Logical Error (SW Failure)- Parameter of input char NOT monoton	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Nec	otec skyrailer	MSEH		81 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9771 FMI: 12 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 105 C1: 129	-	-	-	[PIN_105 PIN_129]: ArrowArmAngularSensor,, - Internal Controller Error- Unknown internal error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9772 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1 , , - Error condition exists according to SPN - if stop all movement is detect by limit envelope function	RM_STOP_MOVE _LIMIT_ENVLP	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 1000ms SDT: False RTH: [-]	
SPN: 1209 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	[-]: CAN_BUS2 , , - Error condition exists according to SPN - CAN Bus off	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1210 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	[-]: CAN_BUS2 , , - Error condition exists according to SPN - CAN warning	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1211 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	[-]: CBUS2_HWBUF_SND0 , , - Error condition exists according to SPN - HW- Buffer overflow send	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1212 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	[-]: CBUS2_HWBUF_SND1 , , - Error condition exists according to SPN - HW- Buffer overflow send	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1213 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	[-]: CBUS2_HWBUF_SND2 , , - Error condition exists according to SPN - HW- Buffer overflow send	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1214 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	[-]: CBUS2_HWBUF_SND3 , , - Error condition exists according to SPN - HW- Buffer overflow send	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1215 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	[-]: CBUS2_HWBUF_SND4 , , - Error condition exists according to SPN - HW- Buffer overflow send	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1216 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C1	-	-	-	[-]: CBUS2_HWBUF_SND5 , , - Error condition exists according to SPN - HW- Buffer overflow send	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15

D-66273 SULZBACH/SAAR



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		82 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1			,	Reaction			
		PIN								
SPN: 1217	CAT: 0-not	C1	-	-	-	[-]: CBUS2_HWBUF_RCV0,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1218	CAT: 0-not	C1	-	-	-	[-]: CBUS2 HWBUF RCV1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1219	CAT: 0-not	C1	-	-	-	[-]: CBUS2 HWBUF RCV2,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1220	CAT: 0-not	C1	-	_	-	[-]: CBUS2_HWBUF_RCV3,,	-	SC: -	RC: -	
FMI: 31	Type: Error	•				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 MIOX. 200	202. 1101					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1221	CAT: 0-not	C1	 	† <u>-</u>	1 -	[-]: CBUS2_HWBUF_RCV4 , ,	_	SC: -	RC: -	
FMI: 31	Type: Error	"				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
I WICX. 200	LOD. NOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1222	CAT: 0-not	C1	l _	<u> </u>	_	[-]: CBUS2_HWBUF_RCV5 , ,	_	SC: -	RC: -	
FMI: 31	Type: Error	"	-	_	-	- Error condition exists	_	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
I WIEX. 255	LSB. NOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1223	CAT: 0-not	C1	-			[-]: CBUS2_HWBUF_RCV6 , ,		SC: -	RC: -	
FMI: 31	Type: Error		-	-	-	- Error condition exists	-	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
FIVILEX. 200	ESB. NOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1224	CAT: 0-not	C1		_		[-]: CBUS2_HWBUF_RCV7 , ,		SC: -	RC: -	_
FMI: 31		01	-	-	-		-	DDT: 500ms	RDT: 1000ms	
	Type: Error					- Error condition exists				
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
ODN 4005	0.47	-				Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1225	CAT: 0-not	C1	-	-	-	[-]: CBUS2_CBUF_SND_1 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error			1		- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Software		SDT: False	SDT: False	
0011 1055	1017 0 1	-				Buffer SW-Overflow		STH: 0[-]	RTH: 0[-]	
SPN: 1226	CAT: 0-not	C1	-	-	-	[-]: CBUS2_CBUF_RCV_1 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - Software		SDT: False	SDT: False	
			1			Buffer SW-Overflow		STH: 0[-]	RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		83 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1			, , , , , , , , , , , , , , , , , , , ,	Reaction			
		PIN								
SPN: 1010	CAT: 0-not	C2	-	-	-	[-]: CAN_BUS0 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error					condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - CAN Bus off		SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 1011	CAT: 0-not	C1	-	-	-	[-]: CAN_BUS0 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error					condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - CAN warning		SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 1229	CAT: 0-not	C1	-	-	-	[-]: CBUS0_HWBUF_SND0 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1230	CAT: 0-not	C1	-	-	-	[-]: CBUS0_HWBUF_SND1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1231	CAT: 0-not	C1	-	-	-	[-]: CBUS0_HWBUF_SND2,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1232	CAT: 0-not	C1	-	-	-	[-]: CBUS0 HWBUF SND3,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1233	CAT: 0-not	C1	-	-	-	[-]: CBUS0_HWBUF_SND4,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1234	CAT: 0-not	C1	-	-	-	[-]: CBUS0_HWBUF_SND5,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1235	CAT: 0-not	C1	-	-	-	[-]: CBUS0 HWBUF RCV0,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1236	CAT: 0-not	C1	-	-	-	[-]: CBUS0 HWBUF RCV1,,	-	SC: -	RC: -	
FMI: 31	Type: Error	-				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		84 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test II
	Memorize	: PIN	1				Reaction			
SPN: 1237	CAT: 0-not	C1	-	-	-	[-]: CBUS0 HWBUF RCV2,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1238	CAT: 0-not	C1	-	-	-	[-]: CBUS0 HWBUF RCV3,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1239	CAT: 0-not	C1	i -	_	_	[-]: CBUS0 HWBUF RCV4,,	-	SC: -	RC: -	
FMI: 31	Type: Error	•				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 MIOX. 200	202. 1101					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1240	CAT: 0-not	C1	-	† <u>-</u>	_	[-]: CBUS0_HWBUF_RCV5 , ,	_	SC: -	RC: -	
FMI: 31	Type: Error	01	_	_		- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
I MIEX. 255	LSB. NOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1241	CAT: 0-not	C1				[-]: CBUS0 HWBUF RCV6,,		SC: -	RC: -	
FMI: 31	Type: Error	01	-	-	-	- Error condition exists	-	DDT: 500ms	RDT: 1000ms	
	ESB: NOT							SDT: False	SDT: False	
FMlex: 255	ESB. NOT					according to SPN - HW-				
SPN: 1242	CAT: 0-not	C1				Buffer overflow receive [-]: CBUS0 HWBUF RCV7,,		STH: 0[-] SC: -	RTH: 0[-] RC: -	
		01	-	-	-		-			
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1291	CAT: 0-not	C0	-	-	-	[-]: CAN_BUS1 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error					condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - CAN Bus off		SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 1292	CAT: 0-not	C0	-	-	-	[-]: CAN_BUS1 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error					condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - CAN warning		SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 1293	CAT: 0-not	C0	-	-	-	[-]: CBUS1_HWBUF_SND0,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
		<u> </u>				Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1294	CAT: 0-not	C0	-	-	-	[-]: CBUS1_HWBUF_SND1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT			1		according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		85 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 1295	CAT: 0-not	C0	-	_	_	[-]: CBUS1 HWBUF SND2,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
	202					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1296	CAT: 0-not	C0	-	-	_	[-]: CBUS1 HWBUF SND3,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1297	CAT: 0-not	C0	-	_	-	[-]: CBUS1_HWBUF_SND4 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1298	CAT: 0-not	C0	-	-	_	[-]: CBUS1 HWBUF SND5	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
	202					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1299	CAT: 0-not	C0	-	_	-	[-]: CBUS1_HWBUF_RCV0,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1300	CAT: 0-not	C0	-	-	-	[-]: CBUS1 HWBUF RCV1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1301	CAT: 0-not	C0	-	-	-	[-]: CBUS1 HWBUF RCV2	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1302	CAT: 0-not	C0	-	-	-	[-]: CBUS1_HWBUF_RCV3,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1303	CAT: 0-not	C0	-	-	-	[-]: CBUS1_HWBUF_RCV4,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1304	CAT: 0-not	C0	-	-	-	[-]: CBUS1_HWBUF_RCV5,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		86 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 1305	CAT: 0-not	CO	-	_	-	[-]: CBUS1 HWBUF RCV6,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1306	CAT: 0-not	C0	-	-	-	[-]: CBUS1 HWBUF RCV7 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1307	CAT: 0-not	C1	-	-	-	[-]: CAN_BUS1 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error					condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - CAN Bus off		SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 1308	CAT: 0-not	C1	-	-	-	[-]: CAN_BUS1 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error					condition exists according to		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					SPN - CAN warning		SDT: False	SDT: False	
								STH: 0[-]	RTH: 0[-]	
SPN: 1309	CAT: 0-not	C1	-	-	-	[-]: CBUS1_HWBUF_SND0,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1310	CAT: 0-not	C1	-	-	-	[-]: CBUS1_HWBUF_SND1,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
0011 1011	0.7					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1311	CAT: 0-not	C1	-	-	-	[-]: CBUS1_HWBUF_SND2 , ,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
CDN: 4040	CAT: 0 mot	C1				Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1312	CAT: 0-not	U	-	-	-	[-]: CBUS1_HWBUF_SND3 , , - Error condition exists	-	SC: - DDT: 500ms	RC: - RDT: 1000ms	
FMI: 31 FMIex: 255	Type: Error ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
FIVILEX. 200	ESB. NUI					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1313	CAT: 0-not	C1	-	 -	<u> </u>	[-]: CBUS1 HWBUF SND4 , ,	_	SC: -	RC: -	
FMI: 31	Type: Error	"	1 -	-	-	- Error condition exists	_	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 WIICA. 200						Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1314	CAT: 0-not	C1	-	_	-	[-]: CBUS1_HWBUF_SND5 , ,	_	SC: -	RC: -	
FMI: 31	Type: Error	"				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1						Buffer overflow send		STH: 0[-]	RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		87 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 1315	CAT: 0-not	C1				[-]: CBUS1_HWBUF_RCV0,,		SC: -	RC: -	
	Type: Error		-	-	-	- Error condition exists	-	DDT: 500ms	RDT: 1000ms	
	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
Fivilex. 255	ESB. NOT									
ODN: 4040	047. 04	04				Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
	CAT: 0-not	C1	-	-	-	[-]: CBUS1_HWBUF_RCV1 , ,	-	SC: -	RC: -	
	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
0011 1015						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
	CAT: 0-not	C1	-	-	-	[-]: CBUS1_HWBUF_RCV2,,	-	SC: -	RC: -	
	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
	CAT: 0-not	C1	-	-	-	[-]: CBUS1_HWBUF_RCV3,,	-	SC: -	RC: -	
	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1319	CAT: 0-not	C1	-	-	-	[-]: CBUS1_HWBUF_RCV4,,	-	SC: -	RC: -	
FMI: 31	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1320	CAT: 0-not	C1	-	-	-	[-]: CBUS1_HWBUF_RCV5,,	-	SC: -	RC: -	
	Type: Error					- Error condition exists		DDT: 500ms	RDT: 1000ms	
	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
						Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1321	CAT: 0-not	C1	-	_	_	[-]: CBUS1 HWBUF RCV6,,	-	SC: -	RC: -	
	Type: Error	•				- Error condition exists		DDT: 500ms	RDT: 1000ms	
	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 WIIOX. 200	LOD. HOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1322	CAT: 0-not	C1	_	-	_	[-]: CBUS1_HWBUF_RCV7 , ,	_	SC: -	RC: -	
	Type: Error	"				- Error condition exists		DDT: 500ms	RDT: 1000ms	
	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
I MIEX. 255	LOB. NOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 9773	CAT: 5-red	C0:				[PIN_154]: NeonLights , , -		SC: -	RC: -	
	Type: Error	154	-	-	-	Error condition exists	-	DDT: 500ms	RDT: 1000ms	
	ESB: NOT	154		1				SDT: False	SDT: False	
FIVILEX. ∠55	ESD. INUI			1		according to SPN - HS				
						OpenLoad / Short To Power		STH: 0[-]	RTH: 0[-]	
0001 0774	0.47 5 1			-		external		100		
	CAT: 5-red	C0:	-	-	-	[PIN_154]: NeonLights , , -	-	SC: -	RC: -	
	Type: Error	154				Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HS Short		SDT: False	SDT: False	
		 	-		-	To Power internal		STH: 0[-]	RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15

D-66273 SULZBACH/SAAR



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
N	eotec skyrailer	MSEH		88 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	'				Reaction			
SPN: 9775 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 154	-	-	-	[PIN_154]: NeonLights,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9776 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 154	-	-	-	[PIN_154]: NeonLights,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9777 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 159	-	-	-	[PIN_159]: Ev2DeflectorTransmission,, - Error condition exists according to SPN - HS OpenLoad / Short To Power external	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9778 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 159	-	-	-	[PIN_159]: Ev2DeflectorTransmission,, - Error condition exists according to SPN - HS Short To Power internal	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9779 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 159	-	-	-	[PIN_159]: Ev2DeflectorTransmission,, - Error condition exists according to SPN - HS Short To Ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9780 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 159	-	-	-	[PIN_159]: Ev2DeflectorTransmission,, - Error condition exists according to SPN - Internal Driver Error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1323 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C2	-	-	-	[-]: CAN_BUS0 , , - Error condition exists according to SPN - CAN Bus off	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1324 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C2	-	-	-	[-]: CAN_BUS0 , , - Error condition exists according to SPN - CAN warning	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1325 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C2	-	-	-	[-]: CBUS0_HWBUF_SND0 , , - Error condition exists according to SPN - HW- Buffer overflow send	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

ZUM KIESBERG 16

14979 GROßBEEREN

Mobile Systems and Electronic Controls

MSC

DOC NO. -

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15

D-66273 SULZBACH/SAAR



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
Ne	eotec skyrailer	MSEH		89 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1				Reaction			
SPN: 1326	CAT: 0-not	PIN C2	_	_		[-]: CBUS0 HWBUF SND1,,	-	SC: -	RC: -	
FMI: 31	Type: Error	C2	-	-	-	- Error condition exists	-	DDT: 500ms	RC RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
Fivilex. 200	ESB. NOT					Buffer overflow send			RTH: 0[-]	
SPN: 1327	CAT: 0-not	C2						STH: 0[-]	RC: -	
FMI: 31	Type: Error	C2	-	-	-	[-]: CBUS0_HWBUF_SND2 , , - Error condition exists	-	SC: - DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
Fivilex. 255	ESB. NOT					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1328	CAT: 0-not	C2		_				SC: -	RC: -	
FMI: 31		C2	-	-	-	[-]: CBUS0_HWBUF_SND3 , , - Error condition exists	-	DDT: 500ms	RC RDT: 1000ms	
FMI: 31	Type: Error ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
Fivilex. 255	ESB. NOT					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1329	CAT: 0-not	C2				[-1: CBUS0 HWBUF SND4 , ,		SC: -	RC: -	
FMI: 31	Type: Error	C2	-	-	-	- Error condition exists	-	DDT: 500ms	RC RDT: 1000ms	
	ESB: NOT									
FMIex: 255	ESB. NOT					according to SPN - HW- Buffer overflow send		SDT: False	SDT: False	
SPN: 1330	CAT: 0-not	C2	-	_		[-]: CBUS0_HWBUF_SND5 , ,		STH: 0[-] SC: -	RTH: 0[-] RC: -	
FMI: 31	Type: Error	C2	-	-	-	- Error condition exists	-	DDT: 500ms	RC RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
Fivilex. 255	ESB. NOT					Buffer overflow send		STH: 0[-]	RTH: 0[-]	
SPN: 1331	CAT: 0-not	C2				[-]: CBUS0 HWBUF RCV0,,		SC: -	RC: -	
FMI: 31	Type: Error	62	-	-	-	- Error condition exists	-	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
Fivilex. 200	ESB. NOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1332	CAT: 0-not	C2	-			[-]: CBUS0 HWBUF RCV1.,		SC: -	RC: -	
FMI: 31	Type: Error	62	-	-	-	- Error condition exists	-	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
I WIIGA. 200	LOD. NOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1333	CAT: 0-not	C2	_	_	_	[-]: CBUS0_HWBUF_RCV2 , ,	_	SC: -	RC: -	
FMI: 31	Type: Error	02	-	-		- Error condition exists	_	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 WIICX. 200	LOD. NOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1334	CAT: 0-not	C2	-	_	_	[-]: CBUS0 HWBUF RCV3	_	SC: -	RC: -	
FMI: 31	Type: Error	52				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
. WIICA. 200	200. 1101					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	
SPN: 1335	CAT: 0-not	C2	 	_	_	[-]: CBUS0_HWBUF_RCV4 , ,	_	SC: -	RC: -	
FMI: 31	Type: Error	52				- Error condition exists		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					according to SPN - HW-		SDT: False	SDT: False	
1 WIICA. 200	LOD. NOT					Buffer overflow receive		STH: 0[-]	RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		90 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 1336 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C2	-	-	-	[-]: CBUS0_HWBUF_RCV5 , , - Error condition exists according to SPN - HW- Buffer overflow receive	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1337 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C2	-	-	-	[-]: CBUS0_HWBUF_RCV6 , , - Error condition exists according to SPN - HW- Buffer overflow receive	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 1338 FMI: 31 FMIex: 255	CAT: 0-not Type: Error ESB: NOT	C2	-	-	-	[-]: CBUS0_HWBUF_RCV7 , , - Error condition exists according to SPN - HW- Buffer overflow receive	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9008 FMI: 3 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 103	-	-	-	[PIN_103]: Transmission1PressureSenso r,, - Short to Power (Voltage High)- Master input signal short to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9009 FMI: 4 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 103	-	-	-	[PIN_103]: Transmission1PressureSenso r,, - Short to Ground (Voltage Low)- Master input signal short to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9010 FMI: 24 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 103	-	-	-	[PIN_103]: Transmission1PressureSenso r,, - Logical Error (SW Failure)- Parameter of input char NOT monoton	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9011 FMI: 12 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 103	-	-	-	[PIN_103]: Transmission1PressureSenso r,, - Internal Controller Error- Unknown internal error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9048 FMI: 3 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 127	-	-	-	[PIN_127]: Transmission2PressureSenso r,, - Short to Power (Voltage High)- Master input signal short to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9049 FMI: 4 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 127	-	-	-	[PIN_127]: Transmission2PressureSenso r,, - Short to Ground (Voltage Low)- Master input	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15

D-66273 SULZBACH/SAAR



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		91 of 102

DTC	Cotogom: Turns	ECU	Lobo	Company	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
DIC	Category Type Memorize		Labe	Component	Assemblies	Description	Reaction	Set Benavior	Release Benavior	I est ID
	Wemonze	: PIN	'				Reaction			
SPN: 9050	CAT: 5-red	C1:	-	-	-	[PIN_127]:	-	SC: -	RC: -	
FMI: 24	Type: Error	127				Transmission2PressureSenso		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					r , , - Logical Error (SW		SDT: False	SDT: False	
						Failure)- Parameter of input		STH: 0[-]	RTH: 0[-]	
						char NOT monoton				
SPN: 9051	CAT: 5-red	C1:	-	-	-	[PIN_127]:	-	SC: -	RC: -	
FMI: 12	Type: Error	127				Transmission2PressureSenso		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					r , , - Internal Controller Error-		SDT: False	SDT: False	
						Unknown internal error		STH: 0[-]	RTH: 0[-]	
SPN: 9052	CAT: 5-red	C0:	-	-	-	[PIN_131 PIN_122]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				DownOscillantAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		122				SPN - Logical Error between		STH: 0[-]	RTH: 0[-]	
						pin 0 and 1				
SPN: 9053	CAT: 5-red	C0:	-	-	-	[PIN_131 PIN_122]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				DownOscillantAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		122				SPN - Vin0 < u16VolLoMin		STH: 0[-]	RTH: 0[-]	
SPN: 9054	CAT: 5-red	C0:	-	-	-	[PIN_131 PIN_122]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				DownOscillantAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		122				SPN - Vin0 > u16VolHiMax		STH: 0[-]	RTH: 0[-]	
SPN: 9055	CAT: 5-red	C0:	-	-	-	[PIN_131 PIN_122]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				DownOscillantAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		122				SPN - u16VolLoMax < Vin0 <		STH: 0[-]	RTH: 0[-]	
						u16VolHiMin				
SPN: 9104	CAT: 5-red	C0:	-	-	-	[PIN_131 PIN_122]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				DownOscillantAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		122				SPN - Vin1 < u16VolLoMin		STH: 0[-]	RTH: 0[-]	
SPN: 9105	CAT: 5-red	C0:	-	-	-	[PIN_131 PIN_122]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				DownOscillantAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		122				SPN - Vin1 > u16VolHiMax		STH: 0[-]	RTH: 0[-]	
SPN: 9106	CAT: 5-red	C0:	-	-	-	[PIN_131 PIN_122]:	-	SC: -	RC: -	
FMI: 31	Type: Error	131				DownOscillantAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		122				SPN - u16VolLoMax < Vin1 <		STH: 0[-]	RTH: 0[-]	
						u16VolHiMin				



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		92 of 102

DTC	Category Type Memorize	ECU :	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
		PIN								
SPN: 9107 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_2 , , - Error condition exists according to SPN - Coherence pilotage PVG Ev Tor	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9108 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_2 , , - Error condition exists according to SPN - Coherence pilotage PVG telescope	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9129 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_2 , , - Error condition exists according to SPN -	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9130 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_2 , , - Error condition exists according to SPN -	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9131 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_2 , , - Error condition exists according to SPN -	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9132 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_2 , , - Error condition exists according to SPN -	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9133 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_2 , , - Error condition exists according to SPN -	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9134 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_2 , , - Error condition exists according to SPN -	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 16076 FMI: 24 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0 , , - Logical Error (SW Failure)- Inconsistency selector signals	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		93 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	<u>:</u>	1				Reaction			
0.00	0.47	PIN				11.0 15.5			-	
SPN: 16077	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0 , , -	-	SC: -	RC: -	
FMI: 24	Type: Error					Logical Error (SW Failure)-		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					Inconsistency abutment turret		SDT: False	SDT: False	
0011 100-0	0					track and center size		STH: [-]	RTH: [-]	
SPN: 16078	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0 , , -	-	SC: -	RC: -	
FMI: 24	Type: Error					Logical Error (SW Failure)-		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					Inconsistency abutment		SDT: False	SDT: False	
0011 100-0	0					nacelle		STH: [-]	RTH: [-]	
SPN: 16079	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0 , , -	-	SC: -	RC:	
FMI: 24	Type: Error					Logical Error (SW Failure)-		DDT: 500ms	RC02_ARU_VEHICLE_STO	
FMIex: 255	ESB: NOT					Inconsistency of pressure and		SDT: False	PPED	
						control of solenoid valve		STH: [-]	RDT: 0ms	
									SDT: False	
									RTH: [-]	
SPN: 16080	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0 , , -	-	SC: -	RC: -	
FMI: 24	Type: Error					Logical Error (SW Failure)-		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					control pressure accumulator		SDT: False	SDT: False	
0011 10001	0					brakes		STH: [-]	RTH: [-]	
SPN: 16081	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error					condition exists according to		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					SPN - Hydraulic temperature		SDT: False	SDT: False	
0011 10010	0					fault mode crawler		STH: [-]	RTH: [-]	
SPN: 16312	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0_2 , , -	-	SC: -	RC: -	
FMI: 31	Type: Error					Error condition exists		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					according to SPN - Hydraulic		SDT: False	SDT: False	
ODN 40040	0.47 5 1					temperature fault mode rail		STH: [-]	RTH: [-]	
SPN: 16313	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0_2,, -	-	SC: -	RC: -	
FMI: 31	Type: Error					Error condition exists		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					according to SPN - Hydraulic		SDT: False	SDT: False	
						temperature alarme mode		STH: [-]	RTH: [-]	
ODN: 40044	OAT: F and	00			-	crawler		00:	. DO:	
SPN: 16314	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0_2,, -	-	SC: -	RC: -	
FMI: 31	Type: Error					Error condition exists		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					according to SPN - Hydraulic		SDT: False	SDT: False	
						temperature alarme mode		STH: [-]	RTH: [-]	
						crawler				



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		94 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 16315 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_2 , , - Error condition exists according to SPN - Inconsistency beetween high and low position of axle oscillant	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16316 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_2 , , - Error condition exists according to SPN - Inconsistency beetween high and low position of axle fixe	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16317 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_2 , , - Error condition exists according to SPN - both sensors do not show consistent values	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: RC01_VEHICLE_STOPPED _ALL_DISABLED_CMD RDT: 0ms SDT: False RTH: [-]	
SPN: 16318 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_2 , , - Error condition exists according to SPN - both sensors do not show consistent values	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: RC01_VEHICLE_STOPPED _ALL_DISABLED_CMD RDT: 0ms SDT: False RTH: [-]	
SPN: 16319 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_2 , , - Error condition exists according to SPN - exceeding the PV overspeed threshold	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: RC01_VEHICLE_STOPPED _ALL_DISABLED_CMD RDT: 0ms SDT: False RTH: [-]	
SPN: 16320 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_3 , , - Error condition exists according to SPN - exceeding the GV overspeed threshold	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: RC01_VEHICLE_STOPPED _ALL_DISABLED_CMD RDT: 0ms SDT: False RTH: [-]	
SPN: 16321 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_3 , , - Error condition exists according to SPN - CAN communication problem, inconsistency with option, Inconsistent measure	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		95 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1			,	Reaction			
0000	0.47 5 1	PIN				11.0 '5 5 00.0				
SPN: 16322 FMI: 31	CAT: 5-red Type: Error	C0	-	-	-	[-]: SpecificErrorC0_3 , , - Error condition exists	-	SC: - DDT: 0ms	RC: - RDT: 0ms	
FMIex: 255	ESB: NOT					according to SPN -		SDT: False	SDT: False	
1 WIEX. 255	LOB. NOT					according to St 14 -		STH: [-]	RTH: [-]	
SPN: 16323	CAT: 5-red	C0	-	_	_	[-]: SpecificErrorC0_3 , , -	_	SC: -	RC: -	
FMI: 31	Type: Error					Error condition exists		DDT: 0ms	RDT: 0ms	
FMlex: 255	ESB: NOT					according to SPN -		SDT: False	SDT: False	
						_		STH: [-]	RTH: [-]	
SPN: 16324	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0_3 , , -	-	SC: -	RC: -	
FMI: 31	Type: Error					Error condition exists		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					according to SPN -		SDT: False	SDT: False	
						Inconsistency check position foled of delta and arrow		STH: [-]	RTH: [-]	
SPN: 16325	CAT: 5-red	C0	-	 -	_	[-]: SpecificErrorC0_3 , , -	_	SC: -	RC: -	
FMI: 31	Type: Error	00	-	-		Error condition exists	_	DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					according to SPN -		SDT: False	SDT: False	
						Inconsistency boths 2		STH: [-]	RTH: [-]	
						channels or can faillures				
SPN: 16326	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0_3 , , -	-	SC: -	RC: -	
FMI: 31	Type: Error					Error condition exists		DDT: 0ms	RDT: 0ms	
FMlex: 255	ESB: NOT					according to SPN -		SDT: False	SDT: False	
SPN: 16082	CAT: 5-red	C1	-	_		[-]: SpecificErrorC1 , , -		STH: [-] SC: -	RTH: [-] RC: -	
FMI: 24	Type: Error		-	-	-	Logical Error (SW Failure)-	-	DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					Overland sensor fault 1 and 2		SDT: False	SDT: False	
1 11110%: 200	205. 1101					Overland control ladit Fana 2		STH: [-]	RTH: [-]	
SPN: 16083	CAT: 5-red	C1	-	-	-	[-]: SpecificErrorC1 , , -	-	SC: -	RC: -	
FMI: 24	Type: Error					Logical Error (SW Failure)-		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					Right basket sensor		SDT: False	SDT: False	
						inconsistency NcNo		STH: [-]	RTH: [-]	
SPN: 16084	CAT: 5-red	C1	-	-	-	[-]: SpecificErrorC1 , , -	-	SC: -	RC: -	
FMI: 24 FMIex: 255	Type: Error ESB: NOT					Logical Error (SW Failure)- Left basket sensor		DDT: 0ms SDT: False	RDT: 0ms SDT: False	
FIVILEX. 200	ESB. NUI					inconsistency NcNo		STH: [-]	RTH: [-]	
SPN: 16085	CAT: 5-red	C1	-	_	-	[-]: SpecificErrorC1 , , - Error	-	SC: -	RC: -	
FMI: 31	Type: Error	•				condition exists according to		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					SPN - Inconsistency		SDT: False	SDT: False	
						beetween left and right basket		STH: [-]	RTH: [-]	
						sensor				



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		96 of 102

DTC	Category Type Memorize	ECU :	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
		PIN								
SPN: 16086 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1 , , - Error condition exists according to SPN - Default S1 or S2 pressure sensors	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 9135 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 111	-	-	-	[PIN_111]: FaultPvgDeltaArm ,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9136 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 111	-	-	-	[PIN_111]: FaultPvgDeltaArm ,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9137 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 111	-	-	-	[PIN_111]: FaultPvgDeltaArm ,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9138 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 111	-	-	-	[PIN_111]: FaultPvgDeltaArm ,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9139 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 111	-	-	-	[PIN_111]: FaultPvgDeltaArm ,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9140 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 135	-	-	-	[PIN_135]: FaultPvgArrowArm,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9141 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 135	-	-	-	[PIN_135]: FaultPvgArrowArm,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		97 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9142 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 135	-	-	-	[PIN_135]: FaultPvgArrowArm , , - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9143 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 135	-	-	-	[PIN_135]: FaultPvgArrowArm,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9144 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 135	-	-	-	[PIN_135]: FaultPvgArrowArm,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9145 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 112	-	-	-	[PIN_112]: FaultPvgTelescopeArm,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9146 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 112	-	-	-	[PIN_112]: FaultPvgTelescopeArm,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9147 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 112	-	-	-	[PIN_112]: FaultPvgTelescopeArm,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9148 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 112	-	-	-	[PIN_112]: FaultPvgTelescopeArm,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:			Version:	Date:
	Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:		Resp. Division:	Resp.Author:	Page:
	Neotec skyrailer	MSEH		98 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	:	1	, , ,		,	Reaction			
0.001	0.17	PIN				TD111 440 1			-	
SPN: 9149 FMI: 31	CAT: 5-red Type: Error	C1:	-	-	-	[PIN_112]: FaultPvgTelescopeArm,, -	-	SC: - DDT: 500ms	RC: - RDT: 1000ms	
FMIex: 255	ESB: NOT					Error condition exists		SDT: False	SDT: False	
						according to SPN - An		STH: 0[-]	RTH: 0[-]	
						initialization error			.,	
SPN: 9150	CAT: 5-red	C1:	-	-	-	[PIN_136]:	-	SC: -	RC: -	
FMI: 31	Type: Error	136				FaultPvgEvProTOR , , - Error		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					condition exists according to		SDT: False	SDT: False	
						SPN - An input signal is too		STH: 0[-]	RTH: 0[-]	
SPN: 9151	CAT: 5-red	C1:				low / Short circuit to ground [PIN_136]:		SC: -	RC: -	
FMI: 31	Type: Error	136	-	-	-	FaultPvgEvProTOR , , - Error	-	DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	130				condition exists according to		SDT: False	SDT: False	
1 WIICX. 200	LOD. NOT					SPN - An input signal is too		STH: 0[-]	RTH: 0[-]	
						high / Short circuit to power		311 0[]	5[]	
SPN: 9152	CAT: 5-red	C1:	-	-	-	[PIN_136]:	-	SC: -	RC: -	
FMI: 31	Type: Error	136				FaultPvgEvProTOR , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					condition exists according to		SDT: False	SDT: False	
						SPN - An input signal is out		STH: 0[-]	RTH: 0[-]	
		L				of valid range				
SPN: 9153	CAT: 5-red	C1:	-	-	-	[PIN_136]:	-	SC: -	RC: -	
FMI: 31 FMIex: 255	Type: Error ESB: NOT	136				FaultPvgEvProTOR , , - Error condition exists according to		DDT: 500ms SDT: False	RDT: 1000ms SDT: False	
FIVILEX. 200	ESB. NOT					SPN - Warning: a block has		STH: 0[-]	RTH: 0[-]	
						limited parameters		3111. 0[-]	1711. 0[-]	
SPN: 9162	CAT: 5-red	C1:	-	_	-	[PIN_136]:	-	SC: -	RC: -	
FMI: 31	Type: Error	136				FaultPvgEvProTOR , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT					condition exists according to		SDT: False	SDT: False	
						SPN - An initialization error		STH: 0[-]	RTH: 0[-]	
SPN: 9163	CAT: 5-red	C0:	-	-	-	[PIN_191]: FaultPvgLeftTrak ,	-	SC: -	RC: -	
FMI: 31	Type: Error	191				, - Error condition exists		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - An input		SDT: False	SDT: False	
						signal is too low / Short circuit to ground		STH: 0[-]	RTH: 0[-]	
SPN: 9164	CAT: 5-red	C0:	 	_	 _	[PIN_191]: FaultPvgLeftTrak,	_	SC: -	RC: -	
FMI: 31	Type: Error	191	-	_		, - Error condition exists	=	DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT					according to SPN - An input		SDT: False	SDT: False	
						signal is too high / Short		STH: 0[-]	RTH: 0[-]	
						circuit to power				



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		99 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9165 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 191	-	-	-	[PIN_191]: FaultPvgLeftTrak,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9166 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 191	-	-	-	[PIN_191]: FaultPvgLeftTrak,,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9167 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 191	-	-	-	[PIN_191]: FaultPvgLeftTrak,,, - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9168 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 167	-	-	-	[PIN_167]: FaultPvgRightTrak,, - Error condition exists according to SPN - An input signal is too low / Short circuit to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9169 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 167	-	-	-	[PIN_167]: FaultPvgRightTrak,, - Error condition exists according to SPN - An input signal is too high / Short circuit to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9170 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 167	-	-	-	[PIN_167]: FaultPvgRightTrak,, - Error condition exists according to SPN - An input signal is out of valid range	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9171 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 167	-	-	-	[PIN_167]: FaultPvgRightTrak,, - Error condition exists according to SPN - Warning: a block has limited parameters	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9172 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 167	-	-	-	[PIN_167]: FaultPvgRightTrak , , - Error condition exists according to SPN - An initialization error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		100 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9173 FMI: 3 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 130	-	-	-	[PIN_130]: BypassPressureSensor,, - Short to Power (Voltage High)- Master input signal short to power	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9174 FMI: 4 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 130	-	-	-	[PIN_130]: BypassPressureSensor,, - Short to Ground (Voltage Low)- Master input signal short to ground	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9175 FMI: 24 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 130	-	-	-	[PIN_130]: BypassPressureSensor,, - Logical Error (SW Failure)- Parameter of input char NOT monoton	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9176 FMI: 12 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1: 130	-	-	-	[PIN_130]: BypassPressureSensor,, - Internal Controller Error- Unknown internal error	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 16123 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: TelescopeFrame1 , , - Error condition exists according to SPN - Time out of cyclic message	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16128 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: TelescopeFrame2 , , - Error condition exists according to SPN - Time out of cyclic message	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16308 FMI: 24 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_4 , , - Logical Error (SW Failure)- Number of cycle brake perform is over at threshold	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16309 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	CO	-	-	-	[-]: SpecificErrorC0_4 , , - Error condition exists according to SPN - Test brakes not validated , exceeded critical number of brake perform	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16310 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_4 , , - Error condition exists according to SPN - Check coherence option of light	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	

HYDAC SOFTWARE GmbH

Mobile Systems and Electronic Controls MSC

HYDAC INTERNATIONAL GMBH
Sulzbach
INDUSTRIEGEBIET WERK 15
D-66273 SULZBACH/SAAR



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		101 of 102

DTC	Category Type	ECU	Labe	Component	Assemblies	Description	Error Machine	Set Behavior	Release Behavior	Test ID
	Memorize	: PIN	1				Reaction			
SPN: 16311	CAT: 5-red	C0	_	-	_	[-]: SpecificErrorC0_4 , , -	_	SC: -	RC: -	
FMI: 24	Type: Error					Logical Error (SW Failure)-		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					Right basket sensor		SDT: False	SDT: False	
						inconsistency NcNo		STH: [-]	RTH: [-]	
SPN: 16328	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0_4 , , -	-	SC: -	RC: -	
FMI: 24	Type: Error					Logical Error (SW Failure)-		DDT: 0ms	RDT: 0ms	
FMlex: 255	ESB: NOT					Left basket sensor		SDT: False	SDT: False	
						inconsistency NcNo		STH: [-]	RTH: [-]	
SPN: 16329	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0_4 , , -	-	SC: -	RC: -	
FMI: 24	Type: Error					Logical Error (SW Failure)-		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					Inconsistency beetween left		SDT: False	SDT: False	
						and right basket sensor		STH: [-]	RTH: [-]	
SPN: 16330	CAT: 5-red	C0	-	-	-	[-]: SpecificErrorC0_4 , , -	-	SC: -	RC: -	
FMI: 31	Type: Error					Error condition exists		DDT: 0ms	RDT: 0ms	
FMIex: 255	ESB: NOT					according to SPN - Active		SDT: False	SDT: False	
						Help		STH: [-]	RTH: [-]	
SPN: 9177	CAT: 5-red	C0:	-	-	-	[PIN_108 PIN_146]:	-	SC: -	RC: -	
FMI: 31	Type: Error	108				DownFixeAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		146				SPN - Logical Error between		STH: 0[-]	RTH: 0[-]	
						pin 0 and 1				
SPN: 9178	CAT: 5-red	C0:	-	-	-	[PIN_108 PIN_146]:	-	SC: -	RC: -	
FMI: 31	Type: Error	108				DownFixeAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		146				SPN - Vin0 < u16VolLoMin		STH: 0[-]	RTH: 0[-]	
SPN: 9179	CAT: 5-red	C0:	-	-	-	[PIN_108 PIN_146]:	-	SC: -	RC: -	
FMI: 31	Type: Error	108				DownFixeAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMIex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
0001 0460	0.47 5 1	146				SPN - Vin0 > u16VolHiMax		STH: 0[-]	RTH: 0[-]	
SPN: 9180	CAT: 5-red	C0:	-	-	-	[PIN_108 PIN_146]:	-	SC: -	RC: -	
FMI: 31	Type: Error	108				DownFixeAxle , , - Error		DDT: 500ms	RDT: 1000ms	
FMlex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
		146				SPN - u16VolLoMax < Vin0 < u16VolHiMin		STH: 0[-]	RTH: 0[-]	
SPN: 9181	CAT: 5-red	C0:				[PIN_108 PIN_146]:		SC: -	RC: -	
FMI: 31	Type: Error	108	-	-	-	DownFixeAxle , , - Error	_	DDT: 500ms	RC RDT: 1000ms	
FMIex: 255	ESB: NOT	C0:				condition exists according to		SDT: False	SDT: False	
I WIEA. 200	LOD. INOT	146				SPN - Vin1 < u16VolLoMin		STH: 0[-]	RTH: 0[-]	
	1	140			<u> </u>	JEIN - VIIII > U IOVOILOIVIIII		3111. U[-]	NTO. V[-]	



Title:		Version:	Date:
Project_Neotec_Skyrailer		0.0.00	5/19/2019
Customer:	Resp. Division:	Resp.Author:	Page:
Neotec skyrailer	MSEH		102 of 102

DTC	Category Type Memorize	ECU : PIN	Labe I	Component	Assemblies	Description	Error Machine Reaction	Set Behavior	Release Behavior	Test ID
SPN: 9182 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 108 C0: 146	-	-	-	[PIN_108 PIN_146]: DownFixeAxle , , - Error condition exists according to SPN - Vin1 > u16VolHiMax	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 9183 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0: 108 C0: 146	-	-	-	[PIN_108 PIN_146]: DownFixeAxle,, - Error condition exists according to SPN - u16VolLoMax < Vin1 < u16VolHiMin	-	SC: - DDT: 500ms SDT: False STH: 0[-]	RC: - RDT: 1000ms SDT: False RTH: 0[-]	
SPN: 16178 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: MastMeasure , , - Error condition exists according to SPN - Time out of cyclic message	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16341 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_3 , , - Error condition exists according to SPN - Inconsistency check position foled of delta and arrow	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16342 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C1	-	-	-	[-]: SpecificErrorC1_3 , , - Error condition exists according to SPN - Inconsistency check of telescope sensor	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16307 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_3 , , - Error condition exists according to SPN - Coherence pilotage PVG track left	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	
SPN: 16327 FMI: 31 FMIex: 255	CAT: 5-red Type: Error ESB: NOT	C0	-	-	-	[-]: SpecificErrorC0_4 , , - Error condition exists according to SPN - Coherence pilotage PVG track right	-	SC: - DDT: 0ms SDT: False STH: [-]	RC: - RDT: 0ms SDT: False RTH: [-]	