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2020 NISSAN X-Trail (T32) Service and Repair Manual

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DTC		Items (CONSULT screen terms)	Fail-safe													Reference
			Vehicle speed & vehicle-to-vehicle control function	Lane keep function*1	Lane keep function*2	Lane change support function	Overtaking support function	Route driving support function	AEB	RAB	I-FCW	I-LI	I-BSI	TSR	I-DA	
	55		—	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description
	82		—	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description
	83		—	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description
	86		—	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description
	88		—	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description
C1F89	04	Side radar rear LH	—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
	82		—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
	83		—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
	97		—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
C1F8A	04	Side radar rear RH	—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
	82		—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
	83		—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
	97		—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
C1F8B	47	HD map module circuit	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
	62		—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
C1F90	04	ADAS control unit 2 circuit	—	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
	97		—	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
C1F92	64	EPS sub system circuit	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
C1F93	29	E-driven intelligent brake unit circuit	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
	64		—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
C1F94	54	BSW system circuit	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
C1F95	11	System BU func power supply circ	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
C1F96	29	CONTROL UNIT	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U1327	52	MAC key update	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
	54		—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U19B0	87	LIN comm err (Touch sensor)	—	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description

DTC		Items (CONSULT screen terms)	Vehicle speed & vehicle-to-vehicle control function	Lane keep function*1	Lane keep function*2	Lane change support function	Overtaking support function	Route driving support function	AEB	RAB	I-FCW	I-LI	I-BSI	TSR	I-DA	Reference
																Fail-safe
U19B1	87	CAN comm err (CCM)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U19B2	87	LIN comm err	—	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U19B4	87	CAN comm err (AVM)	—	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U19B5	87	CAN comm err (BCM)	×	×	×	×	×	×	×	×	—	×	×	—	—	DTC Description
U19B6	87	CAN comm err (VCM/HPCM)	×	×	×	×	×	×	×	×	—	×	×	—	—	DTC Description
U19B7	87	CAN comm err (VCM)	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U19B8	87	CAN comm err (EPS control unit)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U19B9	87	CAN comm err (ABS/TCS/VDC)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U19BA	87	CAN comm err (Parking brake)	×	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U19BB	87	CAN comm err (Front camera unit)	—	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U19BC	87	CAN comm err (Side radar rear LH)	—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
U19BD	87	CAN comm err (Side radar rear RH)	—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
U19BE	87	CAN comm err (VCM/HPCM)	×	×	×	×	×	×	×	×	—	×	×	—	—	DTC Description
U19BF	87	CAN comm err (AVM)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U19C1	87	Ethernet comm err (Distance sensor)	×	×	×	×	×	×	×	—	×	—	—	×	—	DTC Description
U19C2	87	Ethernet comm err (AVM)	×	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U19C3	87	Ethernet comm err (Distance sensor)	×	×	×	×	×	×	×	—	×	—	—	×	—	DTC Description
U19C5	87	Ethernet comm err (HD map module)	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U19C6	87	Ethernet comm err (Front camera)	—	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U19C7	87	Ethernet comm err (HD map module)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U19C8	87	Ethernet comm err (Front camera)	—	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U19C9	87	CAN comm err (Side radar front LH)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U19CA	87	CAN comm err (Side radar front	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description

DTC		Items (CONSULT screen terms)	Fail-safe													Reference
			Vehicle speed & vehicle-to-vehicle control function	Lane keep function*1	Lane keep function*2	Lane change support function	Overtaking support function	Route driving support function	AEB	RAB	I-FCW	I-LI	I-BSI	TSR	I-DA	
		RH)														
U19D0	87	CAN comm err (BCM)	×	×	×	×	×	×	×	×	—	×	×	—	—	DTC Description
U19D1	87	CAN comm err (CCM)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U19D2	87	CAN comm err (VCM)	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U19D3	87	CAN comm err (Sonar control unit)	—	—	×	×	×	×	—	×	—	—	—	—	—	DTC Description
U19D4	87	CAN comm err (ABS/TCS/VDC)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U19D5	87	CAN comm err (EPS control unit)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U19D6	87	CAN comm err (Combination meter)	×	×	×	×	×	×	×	×	—	×	×	—	—	DTC Description
U19D7	87	CAN comm err (Steering angle sen)	×	×	×	×	×	×	×	×	×	—	×	×	×	DTC Description
U19D8	87	CAN comm err (IPDM E/R)	—	—	×	×	×	×	—	×	—	—	—	—	—	DTC Description
U2440	87	CAN comm err (ECM)	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U2752	88	Ethernet circuit (Distance sensor)	×	×	×	×	×	×	×	—	×	—	—	×	—	DTC Description
U2A04	88	Comm Bus Off ITS1-FD	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2A05	88	Comm Bus Off ITS4-FD	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2A07	88	Comm Bus Off ITS2-FD	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2A08	88	Comm Bus Off ITS3-FD	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2A09	88	Comm Bus Off ITS5-FD	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2A0B	88	Comm Bus Off CH2-CAN	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2B52	88	Ethernet comm err	—	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue

×: Applicable

Network-DTC

DTC	Items (CONSULT screen terms)	Fail-safe													Reference
		Vehicle speed & vehicle-to-vehicle control function	Lane keep function*1	Lane keep function*2	Lane change support function	Overtaking support function	Route driving support function	AEB	RAB	I-FCW	I-LI	I-BSI	TSR	I-DA	

DTC		Items (CONSULT screen terms)	Fail-safe													Reference
			Vehicle speed & vehicle-to-vehicle control function	Lane keep function*1	Lane keep function*2	Lane change support function	Overtaking support function	Route driving support function	AEB	RAB	I-FCW	I-LI	I-BSI	TSR	I-DA	
U2112	87	CAN comm err (brake unit)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U2118	87	CAN comm err (Intelligent Key)	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U2140	87	CAN comm err (ECM)	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U2143	87	CAN comm err (VCM/HCM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2148	87	CAN comm err (brake control unit)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U214E	87	CAN comm err (combination meter)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U214F	87	CAN comm err (BCM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2150	87	CAN comm err (AIRBAG)	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U2153	87	CAN comm err (HVAC)	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U2154	87	CAN comm err (MIU)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U2155	87	CAN comm err (parking brake)	×	×	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U2159	87	CAN comm err (steering control unit)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U2175	87	CAN comm err (AVM)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U2176	87	CAN comm err (CCM/ST angle sensor)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U2193	87	CAN comm err (ADP driver seat)	—	—	—	—	—	—	—	—	—	—	—	—	—	DTC Description
U226B	87	CAN comm err (front camera)	—	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U229D	87	CAN comm err (DMC)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U236C	87	CAN comm err (side radar)	—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
U236E	87	CAN comm err (side radar)	—	—	×	×	×	×	—	—	—	—	×	—	—	DTC Description
U2375	87	CAN comm err (AVM)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U2443	87	CAN comm err (VCM/HCM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description

DTC		Items (CONSULT screen terms)	Fail-safe													Reference
			Vehicle speed & vehicle-to-vehicle control function	Lane keep function*1	Lane keep function*2	Lane change support function	Overtaking support function	Route driving support function	AEB	RAB	I-FCW	I-LI	I-BSI	TSR	I-DA	
U2448	87	CAN comm err (ABS control unit)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U244E	87	CAN comm err (combination meter)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U244F	87	CAN comm err (BCM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2454	87	CAN comm err (MIU)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U2456	87	CAN comm err (ST angle sensor)	×	×	×	×	×	×	×	×	×	—	×	×	×	DTC Description
U2459	87	CAN comm err (EPS control unit)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U245B	87	CAN comm err (IPDM E/R)	—	—	×	×	×	×	—	×	—	—	—	—	—	DTC Description
U2465	87	CAN comm err (sonar control unit)	—	—	×	×	×	×	×	×	×	—	—	×	—	DTC Description
U2475	87	CAN comm err (AVM)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U2476	87	CAN comm err (CCM)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U2589	87	CAN comm err (side radar)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U258A	87	CAN comm err (side radar)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U2612	87	CAN comm err (E-drvn intllgnt brk)	×	×	×	×	×	×	×	×	×	×	×	×	—	DTC Description
U2648	87	CAN comm err (ABS)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2673	87	CAN comm err (HUD unit)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U26AA	87	CAN comm err (EPS control unit)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue

×: Applicable

MAC Diagnosis

DTC		Items (CONSULT screen terms)	Fail-safe													Reference
			Vehicle speed & vehicle-to-vehicle control function	Lane keep function*1	Lane keep function*2	Lane change support function	Overtaking support function	Route driving support function	AEB	RAB	I-FCW	I-LI	I-BSI	TSR	I-DA	

DTC		Items (CONSULT screen terms)	Fail-safe													Reference
			Vehicle speed & vehicle-to-vehicle control function	Lane keep function*1	Lane keep function*2	Lane change support function	Overtaking support function	Route driving support function	AEB	RAB	I-FCW	I-LI	I-BSI	TSR	I-DA	
U2140	57	CAN comm err (ECM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2143	57	CAN comm err (VCM/HCM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U214F	57	CAN comm err (BCM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2175	57	CAN comm err (AVM)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U2176	57	CAN comm err (CCM/ST angle sensor)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2443	57	CAN comm err (VCM/HCM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U244F	57	CAN comm err (BCM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description
U2465	57	CAN comm err (sonar control unit)	—	—	×	×	×	×	×	×	×	—	—	×	—	DTC Description
U2475	57	CAN comm err (AVM)	—	—	×	×	×	×	—	—	—	—	—	—	—	DTC Description
U2476	57	CAN comm err (CCM)	×	×	×	×	×	×	×	×	×	×	×	×	×	DTC Description

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue

NOTE:
With the detection of Network-DTC some systems do not perform the fail-safe operation.

A system controlling based on a signal received from the control unit performs fail-safe operation when the communication with the ADAS control unit 2 becomes inoperable.

VALUES ON THE DIAGNOSIS TOOL

> 💡**NOTE:**
> The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Condition		Value/Status
Current malfunction	Power switch ON		Displays DTC detected as the current malfunction
PWR SUP MONI	Set the vehicle to READY		10 – 16 V
MAIN SW	Power switch ON	When ProPILOT Assist MAIN switch is pressed	ON
		When ProPILOT Assist MAIN switch is not pressed	OFF
CANCEL SW	Power switch ON	When CANCEL switch is pressed	ON
		When CANCEL switch is not pressed	OFF
SET/COAST SW	Power switch ON	When SET– switch is pressed	ON
		When SET– switch is not pressed	OFF
RESUME/ACC SW	Power switch ON	When RES+ switch is pressed	ON
		When RES+ switch is not pressed	OFF
DISTANCE SW	Power switch ON	When DISTANCE switch is pressed	ON
		When DISTANCE switch is not pressed	OFF
Switch1	💡**NOTE:** The item is displayed, but it is not used		—
Switch2	Power switch ON	When steering assist switch is pressed	ON
		When steering assist switch is not pressed	OFF
BRAKE SW	💡**NOTE:** The item is displayed, but it is not used		—
IDLE SW	💡**NOTE:** The item is displayed, but it is not used		—

Monitor item	Condition		Value/Status
STOP LAMP SW	Power switch ON	When brake pedal is depressed	ON
		When brake pedal is not depressed	OFF
Stop lamp (BU) drive status	**NOTE:** **The item is displayed, but it is not used**		—
DRIVE MODE STATS	**NOTE:** **The item is displayed, but it is not used**		—
OFF-ROAD SW	**NOTE:** **The item is displayed, but it is not used**		—
G (vertical)	**NOTE:** **The item is displayed, but it is not used**		—
G (lateral)	While driving	Vehicle turning right	Negative value
		Vehicle turning left	Positive value
Vehicle speed	While driving		Almost the same speed as speedometer indication
SET VHCL SPD	When vehicle speed is set		Displays the set vehicle speed
EPS ST angle command value	**NOTE:** **The item is displayed, but it is not used**		—
EPS status	**NOTE:** **The item is displayed, but it is not used**		—
EPS control request	**NOTE:** **The item is displayed, but it is not used**		—
EPS mode switching request	**NOTE:** **The item is displayed, but it is not used**		—
Vibration motor open status	Power switch ON	Open circuit in steering vibration motor circuit is detected	On

Monitor item	Condition		Value/Status
		Open circuit in steering vibration motor circuit is not detected	Off
THRTL OPENING	Set the vehicle to READY		0 - 100 %
Shift position	While driving		Displays the shift position
Parking brake holding request	**NOTE:** The item is displayed, but it is not used		—
Parking brake release request	**NOTE:** The item is displayed, but it is not used		—
Wiper signal	Power switch ON	When wiper is not operating	Stop
		When wiper LO is operating	Low
		When wiper HI is operating	High
Turn signal	Power switch ON	Turn signal is OFF	OFF
		Turn signal LH is operating	LH
		Turn signal RH is operating	RH
SET DISTANCE	ProPILOT Assist system ON and press the DISTANCE switch to change the vehicle-to-vehicle distance setting	When set to "long"	Long
		When set to "middle"	Mid
		When set to "short"	Short
Own vehicle mark	**NOTE:** The item is displayed, but it is not used		—
VHCL AHEAD	Drive the vehicle and activate the vehicle-to-vehicle distance control mode	When a vehicle ahead is detected (vehicle ahead detection indicator ON)	OK
		When a vehicle ahead is not detected (vehicle ahead detection indicator OFF)	NG
CRUISE LAMP	**NOTE:** The item is displayed, but it is not used		—
CRUISE OPE	Drive the vehicle and activate the vehicle-to-vehicle distance control mode	When ProPILOT Assist system is controlling	ON
		When ProPILOT Assist system is not controlling	OFF
Pro Pirot ON/OFF request	**NOTE:** The item is displayed, but it is not used		—