



Research & Vehicle Technology "Infotainment Systems Product Development"

Feature - Auto Hitch

Infotainment Subsystem Part Specific Specification (SPSS)

Version 1.5
UNCONTROLLED COPY IF PRINTED

Version Date: August 16, 2021

FORD CONFIDENTIAL



Revision History

Date	Version	Notes	
April 24, 2018	1.0	Initial Release	
October 10, 2018	1.1		
	AHT-FRD-RE	Q-276908/C-Auto Hitch	ashepele: See revision comments in children requirements
	476742/C-Architectural Design		ashepele: See revision comments in children requirements
	499216/B-Fea	ture Overview+	Work in progress
	499216/C-Feature Overview		ashepele: Simplified diagram to include only the AH Server and AH Client
	499217/B-HM	l Overview+	Work in progress
	499217/C-HM	I Overview+	Work in progress
	499217/D-HM	I Overview+	Work in progress
	499217/E-HM	I Overview	ashepele: Updated sample view template. Icon is now above Cancel button
	499352/B-Def	initions+	Work in progress
	499352/C-Def	initions	ashepele: See revision comments in children requirements
	AHT-FUR-RE	Q-294534/B-Auto Hitch	ashepele: No change
	AHT-FUR-REG	Q-294535/B-Auto Hitch	Work in progress
	AHT-FUR-REG	Q-294535/C-Auto Hitch	ashepele: Removed mistaken reference to TBA feature
	530448/B-Auto Hitch Client Interface+		Work in progress
	530448/C-Aut	o Hitch Client Interface	ashepele: See revision comments in children requirements
	FUR-REQ-294	1964/C-Signal Mapping+	Work in progress
	FUR-REQ-294	1964/D-Signal Mapping+	Work in progress
	FUR-REQ-294964/E-Signal Mapping AHT-FUR-REQ-294538/C-AH Feature ID Definition+		ashepele: Removed CtrStkDsplyOp_D_Rq, CtrStkFeatNoActl, CtrStkFeatConfigActl. Added PersIndexIpmb_D_Actl, GearLvrPos_D_Actl, TrlrHitch_D_RqMnu signals
			Work in progress
	AHT-FUR-REGID Definition	Q-294538/D-AH Feature	ashepele: Updated column titles to match logical signal names
	499222/C-Aut	o Hitch Image Client Rx+	Work in progress
	499222/D-Aut	o Hitch Image Client Rx+	Work in progress
		o Hitch Image Client Rx	ashepele: See revision comments in children requirements
		9292/A-Feature_St	New Requirment
		Q-294539/C-Autohitch_St	ashepele: No change
		Q-294540/C-IconRequest	ashepele: No change
		3562/A-Gear Lever	Work in progress
	Position+	DECO/D Coorl overDoo	
		3562/B-GearLeverPos	ashepele: No change
		o Hitch Client Tx+	Work in progress
		O Hitch Client Tx	ashepele: See revision comments in children requirements
		Q-294546/C-DriverInput+	Work in progress
		Q-294546/D-DriverInput	ashepele: Updated to match TrlrHitch_D_RqMnu CAN signal
		neral Requirements+	Work in progress
	4/0/43/U-Ger	neral Requirements	ashepele: See revision comments in children requirements



AHT-FUR-REC-294550/E-AH Interaction via Feature Based Message Protocol+ AHT-FUR-REC-294550/C-AH Interaction via Feature Based Message Protocol AHT-FUR-REC-294552/E-AH HMI Display Requirements+ AHT-FUR-REC-294552/E-AH HMI Display Requirements+ AHT-FUR-REC-294554/C-Camera Image Priority ashepele: Removed non-camera view requirements AHT-FUR-REC-294554/C-Camera Image Priority ashepele: Removed mistaken reference to TBA feature FUR-REC-323563/B-Info Button Availability+ FUR-REC-323563/B-Info Button Availability+ GUR-REC-323563/B-Info Button Availability- 499266/C-Auto Hitch Signal Interface+ 409266/C-Auto Hitch Soft Button Requirements+ 409276/C-Regularements- 409266/C-Auto Hitch Soft Button Requirements- 409266/C-Auto Hitch Soft Button Requirements- 409266/C-Auto Hitch Soft Button Requirements- 409276/C-Regularements- 409266/C-Auto Hitch Soft Button Requirements- 40926/C-Reculare Selection by Soft Buttons+ 40926/C-Reculare Selection by Soft Buttons+ 40926/C-Recularements- 40926/C-Recularements- 40926/C-Recularements- 40926/C-Recularements- 40926/C-Recularements- 40926/C-Recularements- 40926/C-Req		,
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AHT-FUR-REQ-294569/C-Auto Hitch Signal Interface AHT-FUR-REQ-294563/C-Auto Hitch Signal Processing - Positional InstructionsHeadingField+ AHT-FUR-REQ-294563/C-Auto Hitch Soft Button Requirements+ FUR-REQ-319884/C-Auto Hitch Soft Button Requirements+ FUR-REQ-319884/C-Auto Hitch Soft Button Requirements FUR-REQ-319885/R-Feature Selection by Soft Buttons+ FUR-REQ-319885/C-Feature Selection by Soft Buttons+ FUR-REQ-319885/C-Feature Selection by Soft Buttons+ FUR-REQ-294566/B-Cancel Auto Hitch Wenc Camera Feed is Missing+ AHT-FUR-REQ-294566/B-Cancel Auto Hitch Wenc Camera Feed is Missing+ AHT-FUR-REQ-294567/B-Auto Hitch Signal Processing - Positional Instructions ashepele: Re-worded. Signal names now match logical signal names used throughout the spec	Display Requirements	ashepele: Removed non-camera view requirements
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Signal Processing - Positional Icon1 AHT-FUR-REQ-294563/C-Auto Hitch Signal Processing - Positional InstructionsHeadingField+ Work in progress	<u> </u>	
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Signal Processing - Positional InstructionsHeadingField+ AHT-FUR-REQ-294563/E-Auto Hitch Signal Processing - Positional InstructionsHeadingField+ AHT-FUR-REQ-294563/F-Auto Hitch Signal Processing - Positional InstructionsHeadingField+ AHT-FUR-REQ-294563/F-Auto Hitch Signal Processing - Positional InstructionsHeadingField FUR-REQ-319884/A-Auto Hitch Soft Button Requirements+ FUR-REQ-319884/B-Auto Hitch Soft Button Requirements+ FUR-REQ-319884/C-Auto Hitch Soft Button Requirements+ FUR-REQ-319884/C-Auto Hitch Soft Button Requirements FUR-REQ-319884/C-Auto Hitch Soft Button Requirements FUR-REQ-319885/A-Feature Selection by Soft Buttons+ FUR-REQ-319885/A-Feature Selection by Soft Buttons+ FUR-REQ-319885/C-Feature Selection by Soft Buttons FUR-REQ-319885/C-Feature		
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	AHT-FUR-REQ-294567/C-Au Maximum Speed	uto Hitch	ashepele: Removed reference to TBA fea	ture
	FUR-REQ-319291/A-Cancel on Request from Driver+	Auto Hitch	Work in progress	
	AHT-ACT-REQ-302424/B-Auto Hitch AD		ashepele: Re-worded for clarity	
			tmertiri:remove trailerhitchball from AD	
			tmertiri: remove trailerhitchball from SD	
March 21, 2019	1.2			
	AHT-FRD-REQ-276908/D-Auto Hitcl	 h	ndecia: Updated overall spec structure for bette	er readibility
	499217/F-HMI Overview		gkaur12: Updated Sample views layout image.	· · · · · · · · · · · · · · · · · · ·
	530448/D-Auto Hitch Client Interface		ndecia: Updated sub-elements to improve over	all spec structure
	AHT-FUR-REQ-294538/E-AH Featu Definition	re ID	ndecia: Added ellipsis to denote presence of va Normal	
	AHT-FUR-REQ-294546/E-DriverInpo	ut	ndecia: Updated spelling of value names to be references from other requirements	consistent with their
	476743/D-General Requirements		ndecia: updated structure	
	AHT-FUR-REQ-294554/D-Camera I		ndecia: added reference to Screen Interruption requirement when to clear popups	Table and added
	AHT-FUR-REQ-294553/B-Auto Hitcl		ndecia: Updated reference to Screen Interrupti	
	AHT-FUR-REQ-294555/B-Autohitch AHT-FUR-REQ-347436/A-Autohitch		gkaur12: added configuration value for AutoHit gkaur12: added configuration value for AutoHit	
	references 476744/E-Functional Definition			
	AHT-FUN-REQ-343875/A-Display Auto Hitch		ndecia: Added new requirements under this heading ndecia: New function heading added to improve overall spec structure	
	AHT-FUR-REQ-323563/C-Info Butto		gkaur12: updated image and requirement text.	
	AHT-FUR-REQ-294562/C-Auto Hitcl Processing - Positional Icon1		gkaur12: updated icon table	
	. recessing it comenanteems		gkaur12: Updated Text table with Manual/Auto	matic column.
	AHT-FUR-REQ-346645/A-Auto Hitcl Processing - Positional Instructions	n Signal	ndecia: Removed all references to explicitly de graphical HMI content. Added references to the Mapping Table document where this will now be	e AutoHitch HMI Text
	FUR-REQ-320255/B-Handoff to Trai Menu	ler Domain	ndecia: Added detail on signal handling for sett NoRequest upon a value change in AutoHitch_	ing DriverInput back to 0x0
	FUR-REQ-319885/D-Feature Selection by Soft Buttons		ndecia: Updated to add detail on setting signal No_Request upon a value change in the Auto-	litch_St signal
	FUR-REQ-320255/B-Handoff to Trai Menu		ndecia: Added detail on signal handling for sett NoRequest upon a value change in AutoHitch_	_St.
	FUR-REQ-319885/D-Feature Select Buttons		ndecia: Updated to add detail on setting signal No_Request upon a value change in the Auto-	litch_St signal
	FUR-REQ-343766/A-TBA Selection Button		ndecia: added new requirement for a new TBA screen to take you directly to the TBA feature	
	FUR-REQ-347395/A-Continue Select Button	-	ndecia: added new requirement for a new TBA screen to take you directly to the TBA feature	
	FUR-REQ-347435/A-Start Over Sele Button	ection by Soft	screen to take you directly to the TBA feature	
	AHT-SD-REQ-302425/C-Auto Hitch	SD	ndecia: Update sequence diagram to correct spadd the presence of the AutoHitch_St message message is sent	
September 13, 2019	1.3			
	STR-624084/B-Requirements		ndecia: Removed Trailering Domain requireme supported in the HMI	
	AHT-FUR-REQ-346645/B-Auto Hitcl Processing - Positional Instructions	n Signal	ndecia: Update to Message59 of the table, and to the Trailering Menu in Message63, with an of this command in the note below the table. Corr Automatic only.	corresponding description of
	FUR-REQ-319884/D-Auto Hitch Soft Requirements	t Button	ndecia: Removed unintentionally duplicated red 319885	quirements 320255 &
FILE: AUTO HITCH SP	SS v1.5 Aug 16, 2021		OR COMPANY CONFIDENTIAL	Page 4 of 24
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Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification
	FUR-REQ-319885/E-Feature Selection Buttons	of the text mapping table document.
	FUR-REQ-347395/B-Continue Selection	autohitch button and a cancel button.
	AHT-FUR-REQ-319291/C-Cancel Aut Request from Driver	o Hitch on
December 6, 2019	1.4	
·	AHT-FUR-REQ-294552/G-AH HMI Dis	ndecia: added reference to "Rear Hitch" view
	AHT-FUR-REQ-294555/C-Autohitch V	riews ndecia: added reference to "Rear Hitch" view
	STR-624084/C-Requirements	ndecia: revised structure to add requirements 371605 & 371606
	AHT-FUR-REQ-346645/C-Auto Hitch Processing - Positional Instructions	•
	REQ-371605/A-Driver Early Abort Sele Soft Button	ndecia: new requirement
	REQ-371606/A-AutoHitch "Rear Norm and "Rear Hitch" view	al" view ndecia: new requirement
August 16, 2021	1.5	
	AHT-FUR-REQ-294538/F-AH Feature	ID ndecia: updated table to only include relevant camera view values
	476743/E-General Requirements	ndecia: revised structure to add new requirement 397066
	476743/E-General Requirements AHT-FUR-REQ-294552/H-AH HMI Dis Requirements	ndocia: included Auto Hitch Pear Camera Zoom view in first bullet point and
	AHT-FUR-REQ-294552/H-AH HMI Dis	ndecia: included Auto Hitch Rear Camera Zoom view in first bullet point and updated last bullet point to refer to new exception to display message44 or 45 regardless of vehicle speed
	AHT-FUR-REQ-294552/H-AH HMI Dis Requirements	ndecia: included Auto Hitch Rear Camera Zoom view in first bullet point and updated last bullet point to refer to new exception to display message44 or 45 regardless of vehicle speed ndecia: added Rear Zoom View to the Rear Hitch View layouts section
	AHT-FUR-REQ-294552/H-AH HMI Dis Requirements AHT-FUR-REQ-294555/D-Autohitch V AHT-FUR-REQ-397066/A-Autohitch V	ndecia: included Auto Hitch Rear Camera Zoom view in first bullet point and updated last bullet point to refer to new exception to display message44 or 45 regardless of vehicle speed ndecia: added Rear Zoom View to the Rear Hitch View layouts section rehicle ndecia: new requirement to add exception to display message44 or 45
	AHT-FUR-REQ-294552/H-AH HMI Dis Requirements AHT-FUR-REQ-294555/D-Autohitch V AHT-FUR-REQ-397066/A-Autohitch V Speed Exception STR-624084/D-Requirements AHT-FUR-REQ-294562/D-Auto Hitch Processing - Positional Icon1	ndecia: included Auto Hitch Rear Camera Zoom view in first bullet point and updated last bullet point to refer to new exception to display message44 or 45 regardless of vehicle speed (iews ndecia: added Rear Zoom View to the Rear Hitch View layouts section ndecia: new requirement to add exception to display message44 or 45 regardless of vehicle speed ndecia: revised structure to include new requirement 422924 Signal ndecia: added new icons for values 0x4, 0x5, and 0xD
	AHT-FUR-REQ-294552/H-AH HMI Dis Requirements AHT-FUR-REQ-294555/D-Autohitch V AHT-FUR-REQ-397066/A-Autohitch V Speed Exception STR-624084/D-Requirements AHT-FUR-REQ-294562/D-Auto Hitch Processing - Positional Icon1 FUR-REQ-422924/A-Alternate Feature by Soft Buttons	ndecia: included Auto Hitch Rear Camera Zoom view in first bullet point and updated last bullet point to refer to new exception to display message44 or 45 regardless of vehicle speed ndecia: added Rear Zoom View to the Rear Hitch View layouts section ndecia: new requirement to add exception to display message44 or 45 regardless of vehicle speed ndecia: revised structure to include new requirement 422924 Signal ndecia: added new icons for values 0x4, 0x5, and 0xD e Selection ndecia: New screen layout
	AHT-FUR-REQ-294552/H-AH HMI Dis Requirements AHT-FUR-REQ-294555/D-Autohitch V AHT-FUR-REQ-397066/A-Autohitch V Speed Exception STR-624084/D-Requirements AHT-FUR-REQ-294562/D-Auto Hitch Processing - Positional Icon1 FUR-REQ-422924/A-Alternate Feature	ndecia: included Auto Hitch Rear Camera Zoom view in first bullet point and updated last bullet point to refer to new exception to display message44 or 45 regardless of vehicle speed ndecia: added Rear Zoom View to the Rear Hitch View layouts section ndecia: new requirement to add exception to display message44 or 45 regardless of vehicle speed ndecia: revised structure to include new requirement 422924 Signal ndecia: added new icons for values 0x4, 0x5, and 0xD e Selection ndecia: New screen layout ndecia: updated to include the Autohitch Rear Zoom View
	AHT-FUR-REQ-294552/H-AH HMI Dis Requirements AHT-FUR-REQ-294555/D-Autohitch V AHT-FUR-REQ-397066/A-Autohitch V Speed Exception STR-624084/D-Requirements AHT-FUR-REQ-294562/D-Auto Hitch Processing - Positional Icon1 FUR-REQ-422924/A-Alternate Feature by Soft Buttons REQ-371606/B-AutoHitch "Rear Norm	ndecia: included Auto Hitch Rear Camera Zoom view in first bullet point and updated last bullet point to refer to new exception to display message44 or 45 regardless of vehicle speed ndecia: added Rear Zoom View to the Rear Hitch View layouts section ndecia: new requirement to add exception to display message44 or 45 regardless of vehicle speed ndecia: revised structure to include new requirement 422924 Signal ndecia: added new icons for values 0x4, 0x5, and 0xD e Selection ndecia: New screen layout



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1 Architectural Design

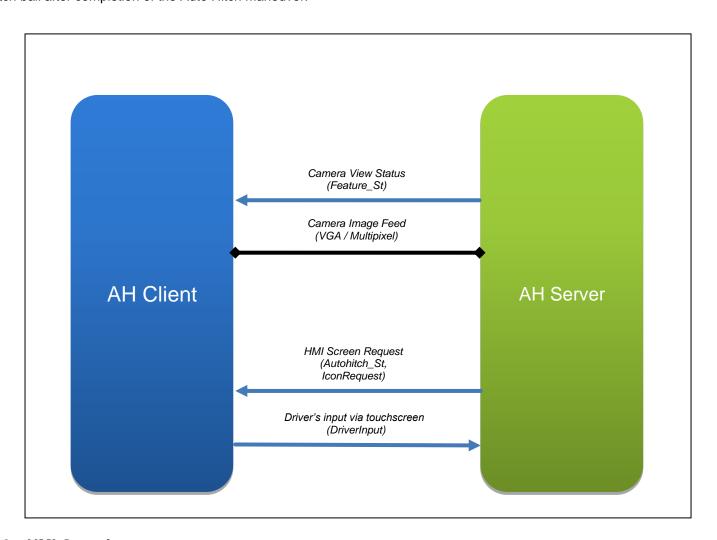
1.1 Feature Overview

Feature Overview:

Auto Hitch is a new advanced driver assistance feature that is designed to improve a user's experience while hooking up a trailer.

<u>Auto Hitch (AH)</u> is a system that automatically aligns a vehicle's hitch ball with a trailer tongue coupler in preparation for hitching a trailer. It relies on the driver to position the vehicle within range of a compatible trailer and then utilizes sensors to detect the trailer and automatically maneuver into alignment.

Auto Hitch controls the steering, brakes, and throttle in a way that allows the user to simply lower the trailer onto the vehicle's hitch ball after completion of the Auto Hitch maneuver.



1.2 HMI Overview

HMI Overview

The layout naming used in this spec are used only for convenience in naming and should not to be used when comparing layouts named in other specifications such as HMI specs or elsewhere. Refer to Appendix for a potential list of related documentation



Sample Icons used for AH HMI Layouts















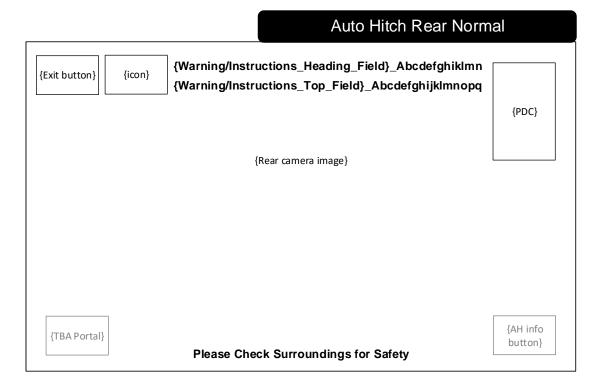






Finnish Hands-Off Info Down Arrow Caution Up Arrow Right Arrow Left Arrow Stop Left/Right Arr

Sample views available to the user.



1.3 Definitions

1.3.1 AHT-FUR-REQ-294534/B-Auto Hitch Client

Responsibility: The AutoHitchClient is the interface of the Auto Hitch (AH) feature. The AutoHitchClient is responsible for displaying a view rearward of the truck, AH maneuver messages, and/or graphics to driver during an AH session.

Review the implementation guide/static view/block diagram to locate the AutoHitch Image Client object.

1.3.2 AHT-FUR-REQ-294535/C-Auto Hitch Server

Responsibility:

The AH Server is responsible for determining the instructions and AH Status provided to the AH Client and for display to the AH feature user.

The AH Server is also responsible for determination of camera views provided to the AH Client.

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1.4 Auto Hitch Client Interface

1.4.1 FUR-REQ-294964/E-Signal Mapping

Literal vs. Physical mapping requirement

APIM Tx/Rx	CAN Signal Name	Logical Signal Name
Rx	TrlrHitchMsgTxt_D_Rq	Autohitch_St
Rx	TrlrHitchlcon_D_Rq	IconRequest
Rx	FeatNoIpmbActl	FeatureID
Rx	FeatConfigIpmbActI	ConfigNumber
Rx	PersIndexIpmb_D_ActI	PersIndex
Rx	GearLvrPos_D_Actl	GearLeverPos
Tx	TrlrHitch_D_RqMnu	DriverInput

1.4.2 AHT-FUR-REQ-294538/F-AH Feature ID Definition

The below table defines the Feature ID information related to the Feature Based Message Protocol command and control method for AH (Note: 0x81B is also used in the TBA2 and Rear View Camera feature).

Feature Name	Feature ID	Config Number	Config Value
		0x00	Off
		0x17	Auto Hitch Rear Normal
	0x081B		
Camera Showing		0x26	Auto Hitch Rear Hitch View
		0x47	Auto Hitch Rear Zoom View

1.4.3 Auto Hitch Image Client Rx

1.4.3.1 <u>FUR-REQ-319292/A-Feature_St</u>

Message Type: Status

Represents the current status of a feature (feature selected, feature setting, etc.).

Included Parameters:

FeatureID Configuration PersIndex

Name	Literals	Value	Description
FeatureID	-	-	Active feature number
		0x0000 – 0xFFFF	
Configuration	-	-	Active configuration value
		0x0000 – 0xFFFF	
PersIndex	-	-	Indicates which personality profile is
			active

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PERS_	1 0x0	
PERS_	2 0x1	
PERS_	3 0x2	
PERS_	4 0X3	
VEHICL	.E 0X4	
Not Use	ed 0x5	
Not Use	ed 0x6	
Not Use	ed 0x7	

Subsystem Part Specific Specification Engineering Specification

1.4.3.2 <u>AHT-FUR-REQ-294539/C-Autohitch_St</u>

Message Type: Status

Ford

This signal communicates the system's operational state to the driver.

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Name	Literals	Value	Description
Туре	-	-	-
•	NoMessage	0x00	
	Message1	0x01	
	Message2	0x02	
	Message3	0x03	
	Message4	0x04	
	Message5	0x05	
	Message6	0x06	
	Message7	0x07	
	Message8	0x08	
	Message9	0x09	
	Message10	0x0A	
	Message11	0x0B	
	Message12	0x0C	
	Message13	0x0D	
	Message14	0x0E	
	Message15	0x0F	
	Message16	0x10	
	Message17	0x11	
	Message18	0x12	
	Message19	0x13	
	Message20	0x14	
	Message21	0x15	
	Message22	0x16	
	Message23	0x17	
	Message24	0x18	
	Message25	0x19	
	Message26	0x1A	
	Message27	0x1B	
	Message28	0x1C	
	Message29	0x1D	
	Message30	0x1E	
	Message31	0x1F	
	Message32	0x20	
	Message33	0x21	
	Message34	0x22	
	Message35	0x23	
	Message36	0x24	
	Message37	0x25	

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Message38	0x26	
Message39	0x27	
Message40	0x28	
Message41	0x29	
Message42	0x2A	
Message43	0x2B	
Message44	0x2C	
Message45	0x2D	
Message46	0x2E	
Message47	0x2F	
Message48	0x30	
Message49	0x31	
Message50	0x32	
Message51	0x33	
Message52	0x34	
Message53	0x35	
Message54	0x36	
Message55	0x37	
Message56	0x38	
Message57	0x39	
Message58	0x3A	
Message59	0x3B	
Message60	0x3C	
Message61	0x3D	
Message62	0x3E	
Message63	0x3F	

1.4.3.3 AHT-FUR-REQ-294540/C-IconRequest

Message Type: Status

This signal indicates the on-screen icon that is to be displayed to the driver.

Name	Literals	Value	Description
Type	-	-	-
	Nolcon	0x00	
	Icon1	0x01	
	Icon2	0x02	
	Icon3	0x03	
	Icon4	0x04	
	Icon5	0x05	
	Icon6	0x06	
	Icon7	0x07	
	Icon8	0x08	
	Icon9	0x09	
	Icon10	0x0A	
	Icon11	0x0B	
	Icon12	0x0C	
	Icon13	0x0D	
	Icon14	0x0E	
	Icon15	0x0F	

1.4.3.4 <u>FUR-REQ-323562/B-GearLeverPos</u>

Message Type: Status

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Vehicle status signal for the Gear Lever Position on an automatic transmission vehicle.

Name	Literals	Value	Description
Туре	-	-	-
	Park	0x0	
	Reverse	0x1	
	Neutral	0x2	
	Drive	0x3	
	Sport_DriveSport	0x4	
	Low	0x5	
	First	0x6	
	Second	0x7	
	Third	0x8	
	Fourth	0x9	
	Fifth	0xA	
	Sixth	0xB	
	Undefined_Treat_as_Fault	0xC	
	Undefined_Treat_as_Fault1	0xD	
	Unknown_Position	0xE	
	Fault	0xF	

1.4.4 Auto Hitch Client Tx

1.4.4.1 AHT-FUR-REQ-294546/E-DriverInput

Message Type: Request

Represents a request from the Autohitch Image Client to the Autohitch Activation Server to convey the driver's on-screen input to the feature algorithm

Name	Literals	Value	Description
Туре	-	-	Driver input via touchscreen
	NoRequest	0x0	
	CancelAutohitch	0x1	
	TurnOnAutohitch	0x2	
	TurnOnTba	0x3	
	Confirm	0x4	
	GoToTraileringDomain	0x5	
	NotUsed_1	0x6	
	NotUsed_2	0x7	



2 General Requirements

2.1 AHT-FUR-REQ-294550/C-AH Interaction via Feature Based Message Protocol

Feature Base Message Protocol shall be used between AH Client and AH Server to synchronize and communicate the current camera view display (360, Normal) of Auto Hitch views.

The HMI Layout used by the AH Client shall be determined by the camera view status provided by the AH Server in order to ensure the HMI Layout applied by the Client is compatible with the Camera View supplied by the Server.

2.2 AHT-FUR-REQ-294552/H-AH HMI Display Requirements

Autohitch-related graphics shall be displayed when the following conditions are valid

- The AH Image Server is requesting Auto Hitch Rear Normal camera view (ConfigNumber== 0x17) or Auto Hitch Rear Camera Hitch view (ConfigNumber== 0x26) or Auto Hitch Rear Camera Zoom view (ConfigNumber== 0x47)
- The value of Autohitch St is not 0x0
- Vehicle speed does not exceed the camera display maximum speed for 100ms, unless the value of Autohitch_St changes to Message44 or Message45 (for details see AHT-FUR-REQ-397066-Autohitch Vehicle Speed Exception.)

2.3 AHT-FUR-REQ-294554/D-Camera Image Priority

Auto Hitch event shall be treated as defined in spec H22A-Screen Interruption Table. Once the camera image has been displayed to user, the image shall be maintained as long as the conditions required to be in the particular camera view are present and shall have highest priority:

- In Autohitch feature, rearview camera is displayed regardless of the gear the vehicle is in. No pop-ups shall interrupt this video image, except the ones requested by Autohitch feature. (Autohitch displays rearview display even if the gear is in Drive)
- Pop-ups shall disappear when vehicle speed is greater than 0 KPH or if the driver shifts to reverse

2.4 AHT-FUR-REQ-294553/B-Auto Hitch Image Priority

Auto Hitch event shall be treated as defined in spec H22A-Screen Interruption Table.

2.5 AHT-FUR-REQ-294555/D-Autohitch Views

Autohitch Views

Autohitch Rear Normal View HMI Layouts shall be displayed by the AH Image Client when Feature_St has the encoding of FeatureID = 0x081B, Configuration = 0x17 AH Rear Normal.

Autohitch Rear Hitch View HMI Layouts shall be displayed by the AH Image Client when Feature_St has the encoding of FeatureID = 0x081B, Configuration = 0x26 AH Rear Hitch View or 0x47 AH Rear Zoom View.

2.6 <u>AHT-FUR-REQ-347436/A-Autohitch HMI content references</u>

The references to HMI screen layouts and other related HMI content are for reference only and not intended to depict the actual text, graphical, or layout content. Refer to the released HMI specifications for further detail on this type of content.

2.7 AHT-FUR-REQ-397066/A-Autohitch Vehicle Speed Exception

If the value of Autohitch_St is set to Message44 (0x2C) or Message45 (0x2D), the message shall be allowed to be displayed at any vehicle speed.

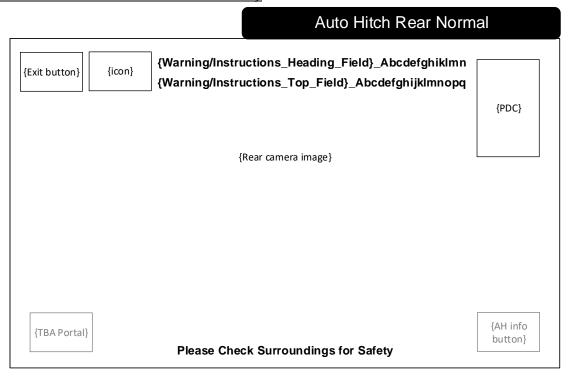


3 Functional Definition

3.1 AHT-FUN-REQ-343875/A-Display Auto Hitch

3.1.1 Requirements

3.1.1.1 AHT-FUR-REQ-323563/C-Info Button Availability



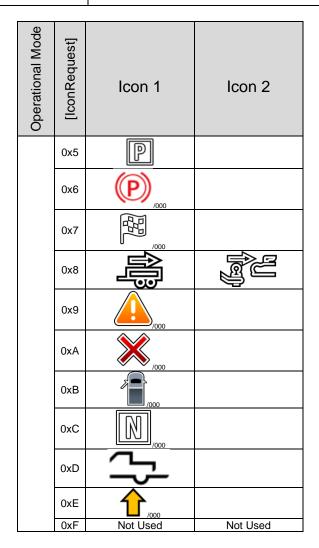
The Auto Hitch info button (Bottom right corner above) shall be disable/greyed if all of the following conditions are not met:

• When Vehicle speed is 0 KPH.

3.1.1.2 AHT-FUR-REQ-294562/D-Auto Hitch Signal Processing - Positional Icon1

Operational Mode	[IconRequest]	Icon 1	Icon 2
	0x0		
	0x1	/000	
	0x2	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
	0x3		
	0x4		





Icon graphics are shown above for convenience and do not necessarily represent the final designs. Please refer to the appropriate documentation from the HMI Design team on the final approved graphics.

3.1.1.3 AHT-FUR-REQ-346645/C-Auto Hitch Signal Processing - Positional Instructions

[Aut	ohitch_St]	Icon1 Enabled	Autohitch Instructions	Manual/ Automatic
Hex	Encoding			
0x00	NoMessage	No	No Info Button	М
0x01	Message1	No	No Info Button	М
0x02	Message2	Yes	See AutoHitch HMI Text Mapping Table	М
0x03	Message3	No	No Info Button	М
0x04	Message4	Yes	No Info Button	A&M
0x05	Message5	Yes	See AutoHitch HMI Text Mapping Table	A&M
0x06	Message6	No	No Info Button	М
0x07	Message7	No	No Info Button	М
0x08	Message8	No	No Info Button	М
0x09	Message9	No	See AutoHitch HMI Text Mapping Table	М
0x0A	Message10	Yes	See AutoHitch HMI Text Mapping Table	М
0x0B	Message11	Yes	No Info Button	М
0x0C	Message12	No	No Info Button	М
0x0D	Message13	Yes	No Info Button	A&M
0x0E	Message14	Yes	No Info Button	Α
0x0F	Message15	Yes	No Info Button	Α
0x10	Message16	Yes	No Info Button	Α
0x11	Message17	Yes	No Info Button	Α
0x12	Message18	Yes	No Info Button	М
0x13	Message19	Yes	No Info Button	Α



[Aut	tohitch_St]	Icon1 Enabled	Autohitch Instructions	Manual/ Automatic
Hex	Encoding			
0x14	Message20	No	No Info Button	M
0x15	Message21	Yes	See AutoHitch HMI Text Mapping Table	M
0x16	Message22	Yes	No Info Button	M
0x17	Message23	Yes	See AutoHitch HMI Text Mapping Table	Α
0x18	Messag24	Yes	No Info Button	Α
0x19	Message25	Yes	No Info Button	Α
0x1A	Message26	No	No Info Button	М
0x1B	Message27	No	No Info Button	М
0x1C	Message28	Yes	No Info Button	Α
0x1D	Message29	No	No Info Button	М
0x1E	Message30	Yes	No Info Button	М
0x1F	Message31	Yes	No Info Button	М
0x20	Message32	Yes	No Info Button	A&M
0x21	Message33	Yes	No Info Button	A&M
0x22	Message34	No	No Info Button	М
0x23	Message35	No	No Info Button	М
0x24	Message36	Yes	No Info Button	М
0x25	Message37	Yes	No Info Button	Α
0x26	Message38	Yes	No Info Button	A&M
0x27	Message39	Yes	No Info Button	A&M
0x28	Message40	Yes	See AutoHitch HMI Text Mapping Table	Α
0x29	Message41	No	No Info Button	М
0x2A	Message42	No	No Info Button	М
0x2B	Message43	No	No Info Button	М
0x2C	Message44	No	No Info Button	М
0x2D	Message45	No	No Info Button	М
0x2E	Message46	No	No Info Button	М
0x2F	Message47	No	No Info Button	М
0x30	Message48	Yes	No Info Button	М
0x31	Message49	Yes	No Info Button	М
0x32	Message50	No	No Info Button	М
0x33	Message51	Yes	See AutoHitch HMI Text Mapping Table	A&M
0x34	Message52	Yes	No Info Button	Α
0x35	Message53	Yes	No Info Button	М
0x36	Message54	No	No Info Button	М
0x37	Message55	Yes	No Info Button	A&M
0x38	Message56	Yes	No Info Button	A&M
0x39	Message57	No	No Info Button	M
0x3A	Message58	Yes	No Info Button	Α
0x3B	Message59	No	See AutoHitch HMI Text Mapping Table	М
0x3C	Message60	No	See AutoHitch HMI Text Mapping Table	М
0x3D	Message61	No	No Info Button	
0x3E	Message62	No	No Info Button	M
0x3F	*Message63	No	{Command to Go to Trailering Domain}	М

Note: Please refer to the AutoHitch HMI Text Mapping Table for the text strings of the instructions fields associated with each Message ID from the table above. *Message63 is not an AutoHitch screen with text strings and instead indicates a command to the AutoHitch Client to transition to the Trailering Domain as defined in the HMI specification.

3.1.1.4 FUR-REQ-319884/D-Auto Hitch Soft Button Requirements

The APIM shall track the status of each soft button available to the user. Debounce and arbitration of the softbutton status shall follow applicable Ford design standards and best practices. Only one button is allowed to register as pressed at any one time, no matter how many buttons the user is pressing simultaneously.

3.1.1.5 FUR-REQ-319885/E-Feature Selection by Soft Buttons



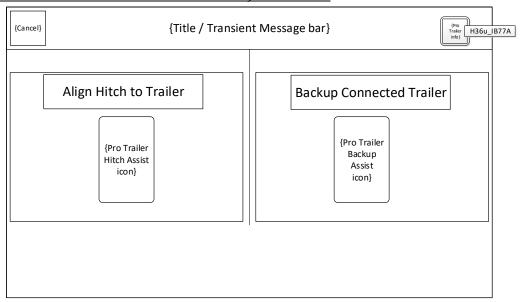
The output signal DriverInput shall be set according to the following table.

Soft Button Pressed	DriverInput
Align Hitch to Trailer	0x2 TurnOnAutohitch
Back Up Connected Trailer	0x3_TurnOnTba

The value of DriverInput shall be maintained until the value of Autohitch_St has changed to any value other than its last reported value, before setting the DriverInput signal value back to 0x0 NoRequest.

When {Pro Trailer info} button is selected, the Pro Trailer information screen shown in reference 12 of the AutoHitch HMI Text Mapping Table shall be displayed.

3.1.1.6 FUR-REQ-422924/A-Alternate Feature Selection by Soft Buttons



The output signal DriverInput shall be set according to the following table.

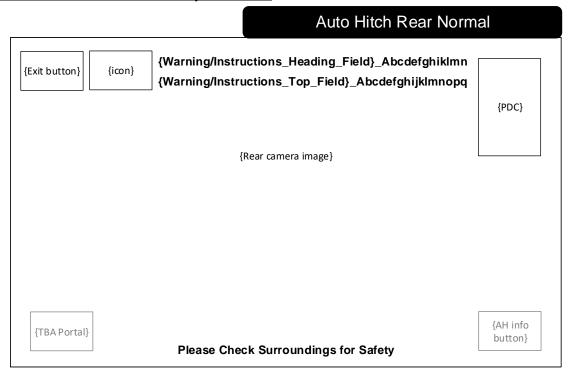


Soft Button Pressed	DriverInput
Align Hitch to Trailer	0x2 TurnOnAutohitch
Back Up Connected Trailer	0x3_TurnOnTba

The value of DriverInput shall be maintained until the value of Autohitch_St has changed to any value other than its last reported value, before setting the DriverInput signal value back to 0x0 NoRequest.

When {Pro Trailer info} button is selected, the Pro Trailer information screen shown in reference 12 of the AutoHitch HMI Text Mapping Table shall be displayed.

3.1.1.7 FUR-REQ-343766/A-TBA Selection by Soft Button



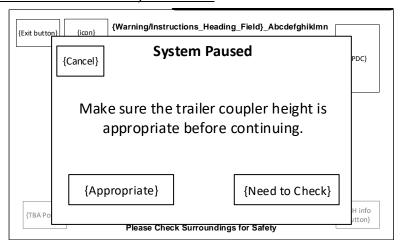
The output signal DriverInput shall be set according to the following table.

Soft Button Pressed	DriverInput
{TBA Portal}	0x3 TurnOnTba

The value of DriverInput shall be maintained until the value of Autohitch_St has changed to any value other than its last reported value, before setting the DriverInput signal value back to 0x0 NoRequest.



3.1.1.8 FUR-REQ-347395/B-Continue Selection by Soft Button



For the above layout, the output signal DriverInput shall be set according to the following table.

Soft Button Pressed	DriverInput	
{Appropriate}	0x4 Confirm	
{Need to Check}	0x2 TurnOnAutohitch	
{Cancel}	0x1 CancelAutohitch	

The value of DriverInput shall be maintained until the value of Autohitch_St has changed to any value other than its last reported value, before setting the DriverInput signal value back to 0x0 NoRequest.

3.1.1.9 FUR-REQ-347435/A-Start Over Selection by Soft Button



For the above layout, the output signal DriverInput shall be set according to the following table.

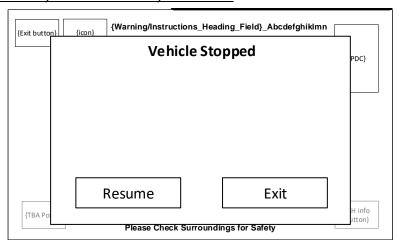
Soft Button Pressed	DriverInput
Start Over	0x4 Confirm
Exit	0x1 CancelAutohitch

The value of DriverInput shall be maintained until the value of Autohitch_St has changed to any value other than its last reported value, before setting the DriverInput signal value back to 0x0 NoRequest.

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3.1.1.10 REQ-371605/A-Driver Early Abort Selection by Soft Button

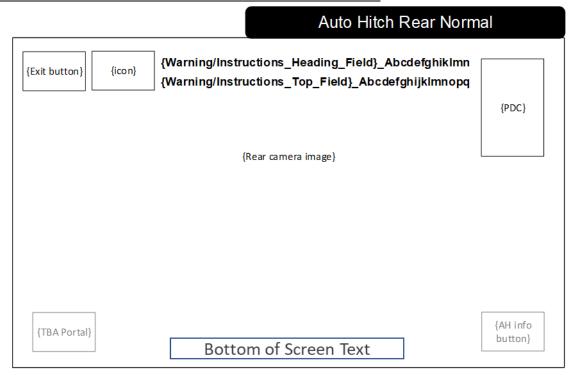


For the above layout, the output signal DriverInput shall be set according to the following table.

Soft Button Pressed	DriverInput
Resume	0x4 Confirm
Exit	0x1 CancelAutohitch

The value of DriverInput shall be maintained until the value of Autohitch_St has changed to any value other than its last reported value, before setting the DriverInput signal value back to 0x0 NoRequest.

3.1.1.11 REQ-371606/B-AutoHitch "Rear Normal" view and "Rear Hitch" view



The client shall display the AutoHitch "Rear Normal" view screen format while the ConfigNumber== 0x17.

The client shall display the AutoHitch "Rear Hitch" view screen format while the ConfigNumber== 0x26.

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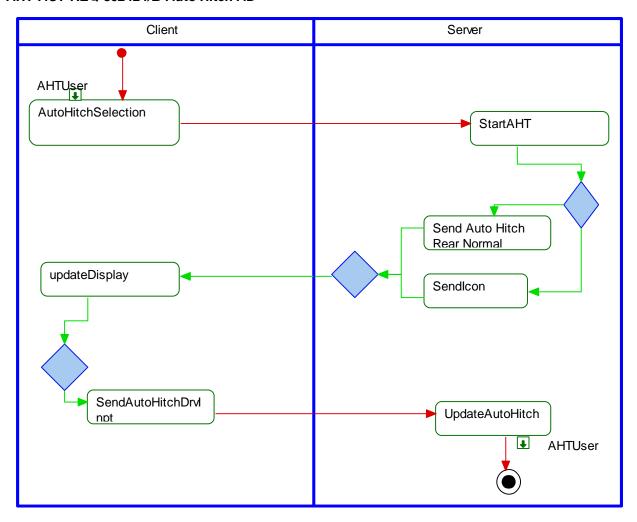
The client shall display the AutoHitch "Rear zoom" view screen format while the ConfigNumber== 0x47. The message at the bottom of the screen shall be displayed as described below:

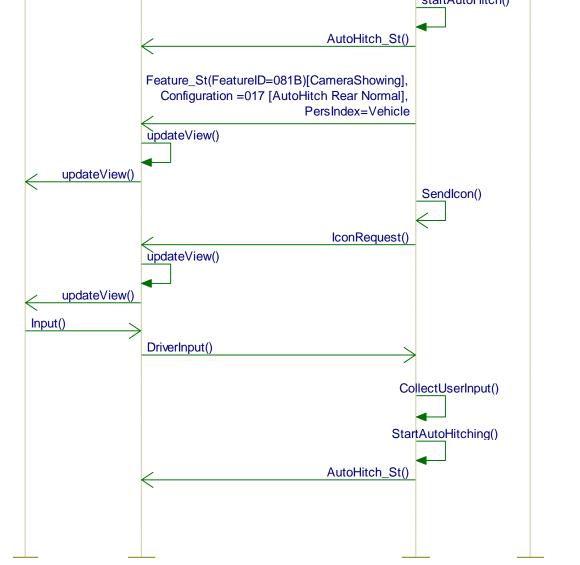
- The Client shall display "Text A" for the bottom of screen message, in AutoHitch 'Rear Normal' view.
- The Client shall display "Text A" for the bottom of screen message, in AutoHitch 'Rear Hitch" or "Rear Zoom" view, when message #25 (0x19) is requested.
- The Client shall display "Text B" for the bottom of screen message, in AutoHitch 'Rear Hitch" or "Rear Zoom" view, except when message #25 (0x19) is requested.
- "Text A" and "Text B" are defined in the Auto Hitch HMI Text Mapping Table, reference 15.

3.1.2 Use Cases

3.1.3 White Box View

3.1.3.1 AHT-ACT-REQ-302424/B-Auto Hitch AD







3.2 Auto Hitch Exit

3.2.1 Requirements

3.2.1.1 AHT-FUR-REQ-294566/C-Cancel Auto Hitch when Camera Feed is Missing

In the event the camera feed is missing, the Auto Hitch Client shall set DriverInput to a value of 0x1_CancelAutohitch while Autohitch_St >= 0x1. Once the feature is cancelled, the request should be reset to 0x0_NoRequest.

3.2.1.2 AHT-FUR-REQ-319291/C-Cancel Auto Hitch on Request from Driver

When the driver presses the Exit button on the touchscreen, the Auto Hitch Client shall set DriverInput to a value of 0x1_CancelAutohitch while Autohitch_St >= 0x1. The value of DriverInput shall be maintained until the value of Autohitch_St has changed to any value other than its last reported value, before setting the DriverInput signal value back to 0x0 NoRequest.



4 Appendix: Reference Documents

Reference #	Document Title
1	H36u_SYNC4_AutoHitch_MY21
2	AutoHitch HMI Text Mapping Table v1.5 or later
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