

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
3000 (or 3999)		Unknown ECM Error Code Received (Retrieve DTC via EASy tool)
3001	112	Foot Throttle Sensor - Signal Not Plausible
3002	112	Foot Throttle Sensor - Signal Above Range Max.
3003	112	Foot Throttle Sensor - Signal Below Range Min.
3004	112	Foot Throttle Sensor - No Signal - Error - timeout
3005		Reserved For VCM (Vehicle Control Module)
3006	131	Coolant Temperature Sensor - Signal Not Plausible (Compared with Engine Oil Temperature)
3007	131	Coolant Temperature Sensor - Signal Above Range Max.
3008	131	Coolant Temperature Sensor - Signal Below Range Min.
3009	131	Coolant Temperature Sensor - (via CAN) No Signal
3010	133	Air Intake Temperature Sensor - Signal Above Range Max.
3011	133	Air Intake Temperature Sensor - Signal Above Range Min.
3012	133	Air Intake Temperature Sensor - (via CAN) No Signal
3013	3C4	Fuel Filter Clogged (= Timeout of CAN message TSC1-AE passive)
3014		Reserved For VCM (Vehicle Control Module)
3015	135	Fuel Temperature Signal - Signal Above Range Max.
3016	135	Fuel Temperature Signal - Signal Below Range Min.
3017		Reserved For VCM (Vehicle Control Module)
3018		Reserved For VCM (Vehicle Control Module)
3019	134	Boost Pressure Sensor - Signal Above Range Max.
3021	134	Boost Pressure Sensor - (via CAN) No Signal
3022	134	Boost Pressure Sensor - Signal Not Plausible
3023	1EB	Atmospheric Pressure Sensor - Signal Not Plausible Compared with Boost Pressure
3024	1EB	Atmospheric Pressure Sensor - Signal Above Range Max.
3025	1EB	Atmospheric Pressure Sensor - Signal Below Range Min.
3026		Reserved For VCM (Vehicle Control Module)
3027	238	Oil pressure sensor : Defect fault check for plausibility from digital sensor
3028	238	Oil Pressure Too Low
3029	138	Oil Pressure Sensor - Short-circuit to Battery
3030	138	Oil Pressure Sensor - Short-circuit to Ground
3031	138	Oil Pressure Sensor - Hardware Error
3032	138	Oil Pressure Sensor - Value Too High
3033	13A	Oil Temperature Sensor - Signal Not Plausible (Compared with Coolant Temperature)
3034	13A	Oil Temperature Sensor - Signal Above Range Max.
3035	13A	Oil Temperature Sensor - Signal Below Range Min.
3036	13A	Oil Temperature Sensor - (via CAN) No Signal
3037	134	Boost Pressure Sensor - Signal Low
3038		Constant Engine RPM Activate / Select Switch - Short-circuit to Ground
3039	115	Cruise Control Actuating Device - Evaluation Error
3040		Reserved For VCM (Vehicle Control Module)
3041		Reserved For VCM (Vehicle Control Module)
3042		Reserved For VCM (Vehicle Control Module)
3043	111	Vehicle Speed Sensing - Hardware Conversion Error
3044	111	Vehicle Speed Sensing - Signal Above Range Max.
3045	111	Vehicle Speed Sensing - Signal Below Range Min.
3046	111	Vehicle Speed Sensing - Signal Not Plausible
3047	125	High Pressure Pump Relay - Short-circuit to Battery
		Main relay defect engine brake decompression valve - Short-circuit to Battery

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CNH	DTC	Description
3048	125	High Pressure Pump Relay - Short-circuit to Ground
		Main relay defect engine brake decompression valve - Short-circuit to Ground
3049		Reserved For VCM (Vehicle Control Module)
3050		Reserved For VCM (Vehicle Control Module)
3051	126	Battery Voltage to ECM too High
3052	126	Battery Voltage to ECM too Low
3053	311	Vehicle Speed Sensing (Teach) - PWM Frequency Too High
3054	311	Vehicle Speed Sensing (Teach) - PWM Average Frequency Above Limit
3055	311	Vehicle Speed Sensing (Teach) - PWM Average Frequency Below Limit
3056	311	Vehicle Speed Sensing (Teach) - Not Plausible
3057	11B	Timeout of CAN Message High Resolution Wheel Speed
3058	21B	Timeout of CAN Message Vehicle Dynamics Control Unit
3059	225	ECM Afterrun was Interrupted f5c: Main Relay : DFC for stuck main relay error
3060	161	Cylinder1 - Unclassifiable Error in Injector
3061	161	Cylinder1 - Injector Cable Short-circuit (Low Side to Battery)
3062	161	Injector, solenoid Power stage : Short circuit in the injector 1
3063	161	Cylinder1 - Injector Cable Short-circuit (High Side to Ground)
3064	165	Cylinder5 - Unclassifiable Error in Injector
3065	165	Cylinder5 - Injector Cable Short-circuit (Low Side to Battery)
3066	165	Cylinder5 - Application Dependent
3067	165	Cylinder5 - Injector Cable Short-circuit (High Side to Ground)
3068	163	Cylinder3 - Unclassifiable Error in Injector
3069	163	Cylinder3 - Injector Cable Short-circuit (Low Side to Battery)
3070	163	Injector, solenoid Power stage : Short circuit in the injector 3
3071	163	Cylinder3 - Injector Cable Short-circuit (High Side to Ground)
3072	166	Cylinder6 - Unclassifiable Error in Injector
3073	166	Cylinder6 - Injector Cable Short-circuit (Low Side to Battery)
3074	166	Cylinder6 - Application Dependent
3075	166	Cylinder6 - Injector Cable Short-circuit (High Side to Ground)
3076	162	Cylinder2 - Unclassifiable Error in Injector
3077	162	Cylinder2 - Injector Cable Short-circuit (Low Side to Battery)
3078	162	Injector, solenoid Power stage : Short circuit in the injector 2
3079	162	Cylinder2 - Injector Cable Short-circuit (High Side to Ground)
3080	164	Cylinder4 - Unclassifiable Error in Injector
3081	164	Cylinder4 - Injector Cable Short-circuit (Low Side to Battery)
3082	164	Injector, solenoid Power stage : Short circuit in the injector 4
3083	164	Cylinder4 - Injector Cable Short-circuit (High Side to Ground)
3084		Reserved For VCM (Vehicle Control Module)
3085		Reserved For VCM (Vehicle Control Module)
3086		Reserved For VCM (Vehicle Control Module)
3087		Reserved For VCM (Vehicle Control Module)
3088	141	Crankshaft Sensor - No Signal
3089	141	Crankshaft Sensor - Invalid Signal
3090	143	Camshaft Sensor - No Signal
3091	143	Camshaft Sensor - Invalid Signal
3092	144	Offset Between Camshaft and Crankshaft - Not Plausible
3093	144	Offset Between Camshaft and Crankshaft - Outside Boundaries
3094		Reserved For VCM (Vehicle Control Module)
3095	142	Operating with Camshaft Sensor Only - Backup Mode

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CNH	DTC	Description
3096	1B1	ECM Bus Off on Vehicle CAN
3097	1B2	ECM Bus Off on Engine private CAN
3098	1C7	Timeout of CAN Message TSC1-TE (When Active)
3099	1C7	Timeout of CAN Message TSC1-TE (When Inactive)
3100	1C4	Timeout of CAN Message TSC1-AE (When Active)
3101	1C4	Timeout of CAN Message TSC1-AE (When Inactive)
3102	136	Rail Pressure Sensor CP3 - Signal Below Range Min.
3103		Reserved For VCM (Vehicle Control Module)
3104	137	Rail Pressure Relief Valve - Open
3105	137	Rail Pressure Relief Valve - Pressure Shock Requested
3106	137	NEF: Rail Pressure Relief Valve - Did Not Open After Pressure Shock F5C: Pressure Relief valve : pressure relief valve is open
3107	259	Metering Unit - Short-circuit to Battery
3108	359	Metering Unit - Short-circuit to Ground
3109		Reserved For VCM (Vehicle Control Module)
3110	236	Rail Pressure Sensor Offset Monitoring - Value above Limit
3111	236	Rail Pressure Sensor Offset Monitoring - Value below Limit
3112	136	Rail Pressure Sensor CP3 - Signal Above Range Max.
3113	128	Tier 3: Grid Heater/Battery Switch Relay - Short-circuit to Battery Tier 4a: Engine Controller High side supply #2 to Grid heater - Short to Battery
3114	228	Tier 3: Grid Heater/Battery Switch Relay Short-circuit to Ground Tier 4a: Engine Controller High side supply #2 to Grid heater Short to Ground
3115		Reserved For VCM (Vehicle Control Module)
3116		Reserved For VCM (Vehicle Control Module)
3117		PTO Twist Sensor - Out of Range
3118	1E5	ECM 12V Sensor Supply Voltage High
3119	1E5	ECM 12V Sensor Supply Voltage Low
3120		PTO Twist Sensor - Not Plausible
3121		PTO Twist Sensor - Open Circuit
3122		PTO Twist Sensor - Short-circuit to Ground
3123		PTO Twist Sensor - Not Calibrated
3124		Hand Throttle - Channel 2 Above Range Max.
3125		Hand Throttle - Channel 2 Below Range Min.
3126		Hand Throttle - Channel 1 Signal Above Range Max.
3127		Hand Throttle - Channel 1 Signal Below Range Min.
3128		Hand Throttle - Channel Difference Error
3129		Hand Throttle - Idle Switch Closed Circuit
3130		Hand Throttle - Idle Switch Open Circuit
3131	12E	Grid Heater Always Switched On
3132		Reserved For VCM (Vehicle Control Module)
3133	124	Cold Start Lamp - No Load
3134	124	Cold Start Lamp - Short-circuit to Battery
3135	124	Cold Start Lamp - Short-circuit to Ground
3136	124	Cold Start Lamp - Excessive Temperature
3137	159	Metering Unit - Open Load
3138	159	Metering Unit - Temperature Too High
3139	15A	Metering Unit Signal Range Check - Signal Too High
3140	15A	Metering Unit Signal Range Check - Signal Too Low
3141	158	Fuel Flow Setpoint Too Low Fuel Metering Unit : leakage is detected based on fuel quantity balance

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CNH	DTC	Description
3142	15B	High Pressure Test - Test Active
3143	22D	Grid Heater Switch Off Test (Voltage Drop Too High)
3144	22D	Grid Heater Switch Off Test (Voltage Drop Too Low)
3145	119	Terminal 15 - No Signal
3146	11C	Water Detected In Fuel
3147	23A	Oil Temperature Too High
3148	132	Coolant Temperature Sensor Dynamic Test - Failure (Minimum Temperature Raise Not Reached)
3149	13E	Coolant Temperature Sensor Test - Failure (Minimum Temperature Not Reached)
3150	123	System/Amber Warning Lamp - Short-circuit to Battery
3151	123	System/Amber Warning Lamp - Short-circuit to Ground
3152	123	System/Amber Warning Lamp - No Load
3153	123	System/Amber Warning Lamp - Excessive Temperature
3154	12B	Grid Heater Relay - Short-circuit to Battery
3155	12B	Grid Heater Relay - Short-circuit to Ground
3156	12B	Grid Heater Relay - No Load
3157		ECM Not Detected on CAN bus or The engine dataset registration information was not available from the engine within the time required.
3158		Invalid ECM Checksum (The engine dataset installed does not match the dataset registered for this machine. Register the new dataset if the dataset has just been updated)
3159		Invalid Engine Reference Torque
3160	145	Fan Actuator - Short-circuit to Battery
3161	145	Fan Actuator - Short-circuit to Ground
3162	145	Fan Actuator - Open Load
3163	145	Fan Actuator - Temperature Too High
3164	147	Fan Speed Sensor - Signal High
3165	147	Fan Speed Sensor - Signal Low
3166	149	Fuel Filter Heater Relay - Short-circuit to Battery
3167	149	Fuel Filter Heater Relay - Short-circuit to Ground
3168	149	Fuel Filter Heater Relay - Open Load
3169	149	Fuel Filter Heater Relay - Signal Not Plausible
3170		Not Used
3171		Not Used
3172		Not Used
3173		Not Used
3174		Not Used
3175		Not Used
3176	157	Setpoint of Metering Unit Not Plausible in Overrun Fuel Metering Unit : set point of metering unit in overrun mode not plausible
3177	14D	Engine Overspeed Detected
	54C	
3179	2B4	Timeout of CAN Message BC2EDC2
3180	1B5	Timeout of CAN Message VCM2EDC
3181	251	Rail Pressure Positive Deviation Too High Concerning Setpoint
3182	1BD	Timeout of CAN Message RxCCVS
3183	2C8	Timeout of CAN Message TSC1-VR (When Active)
3184	4C8	Timeout of CAN Message TSC1-VR (When Inactive)
3185	1C9	Timeout of CAN message TF
3186	167	Cylinder1 Warning - Fast Decay Error

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<b>CNH</b>	<b>DTC</b>	<b>Description</b>
3187	167	Cylinder1 Warning - Application Dependent
3188	167	Injector Cylinder1 Warning - Open Load
3189	167	Cylinder1 Warning - Current Level Error
3190	168	Cylinder2 Warning - Fast Decay Error
3191	168	Cylinder2 Warning - Application Dependent
3192	168	Injector Cylinder2 Warning - Open Load
3193	168	Cylinder2 Warning - Current Level Error
3194	169	Cylinder3 Warning - Fast Decay Error
3195	169	Cylinder3 Warning - Application Dependent
3196	169	Injector Cylinder3 Warning - Open Load
3197	169	Cylinder3 Warning - Current Level Error
3198	16A	Cylinder4 Warning - Fast Decay Error
3199	16A	Cylinder4 Warning - Application Dependent
3200	16A	Injector Cylinder4 Warning - Open Load
3201	16A	Cylinder4 Warning - Current Level Error
3202	16B	Cylinder5 Warning - Fast Decay Error
3203	16B	Cylinder5 Warning - Application Dependent
3204	16B	Injector Cylinder5 Warning - Open Load
3205	16B	Cylinder5 Warning - Current Level Error
3206	16C	Cylinder6 Warning - Fast Decay Error
3207	16C	Cylinder6 Warning - Application Dependent
3208	16C	Injector Cylinder6 Warning - Open Load
3209	16C	Cylinder6 Warning - Current Level Error
3210	171	Bank1 - General Short-circuit on Injection Cable
3211	171	Bank1 - Injection Cable Short-circuit Low Side to Ground
3212	171	Bank1 - Application Dependent
3213	171	Bank1 - Unclassifiable Error
3214	172	Bank1 Warning - Application Dependent
3215	172	Bank1 Warning - Application Dependent
3216	172	Bank1 Warning - Open Load
3217	172	Bank1 Warning - Unclassifiable Error
3218	173	Bank2- General Short-circuit on Injection Cable
3219	173	Bank2 - Injection Cable Short-circuit Low Side to Ground
3220	173	Bank2 - Application Dependent
3221	173	Bank2 - Unclassifiable Error
3222	174	Bank2 Warning - Application Dependent
3223	174	Bank2 Warning - Application Dependent
3224	174	Bank2 Warning - Open Load
3225	174	Bank2 Warning - Unclassifiable Error
3226	184	Messages SRA2EDC
3227	17C	Injection Processor (CY33X) Error - Internal Reset / Clock Loss / Voltage Too Low
3228	17C	Injection Processor (CY33X) Error - Unlocked / Initialization Failure
3229	17C	Injection Processor (CY33X) Error - Injections Limited By Software
3230	17C	Injection Processor (CY33X) Error - SPI Communication Failure
3231	27C	Injection Processor Error - Internal Reset / Clock Loss / Voltage Too Low
3232	27C	Injection Processor Error - Unlocked / Initialization Failure
3233	27C	Injection Processor Error - Test Mode
3234	27C	Injection Processor Error - SPI Communication Failure
3235	17E	Number of Injections Limited - by Charge Balance

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CNH	DTC	Description
3236	17E	Number of Injections Limited - by Quantity Balance
3237	17E	Number of Injections Limited - by Software
3238	1D1	ECM Internal SPI Communication Error - CJ940
3239	1D2	ECM EEPROM - Read Operation Failure
3240	1D2	ECM EEPROM - Write Operation Failure
3241	1D2	ECM EEPROM - Default Value Used
3242	1D3	ECM (Locked) Recovery Occurred
3243	2D3	ECM Recovery which is suppressed F5C: ECU internal : Visibility of Software Resets in DSM
3244	3D3	ECU Recovery (Visible) - Recovery Occurred
3245	1D4	ECM Processor - Watchdog Not Plausible
3246	1D5	Shutoff Paths During Initialization - Watchdog
3247	1D5	Shutoff Paths During Initialization - Supply Voltage Too High
3248	1D5	Shutoff Paths During Initialization - Supply Voltage Too Low
3249	1D6	TPU Monitoring - Time Deviation between TPU and System Not Plausible
3250	1D7	Not Used
3251	1D7	Not Used
3252	1D8	Controller Watchdog - SPI Communication Failure
3253	1D9	ADC Monitoring - Reference Voltage Too High
3254	1D9	ADC Monitoring - Reference Voltage Too Low
3255	1D9	ADC Monitoring - Test Impulse Error
3256	1D9	ADC Monitoring - Queue Error
3257	19B	Turbine Speed and Air Pressure Too High
3258	1E1	High Side Power - Short-circuit to Battery (ECU Power stages : Starter relay HS power stage output short circuit to battery)
3259	1E1	High Side Power - Short-circuit to Ground (ECU Power stages : Starter relay HS power stage output short circuit to ground)
3260	2E1	Low Side Power - Open Load
3261	2E1	Low Side Power - Short-circuit to Battery of Excess Temperature
3262	2E1	Low Side Power - Short-circuit to Ground
3263	1B3	ECM Bus Off on CAN C
3264	1E2	Immobilizer - Injection Disabled
3265	1E3	Overrun Monitoring - Injection Time Too Long
3266	1E4	Redundant Engine Speed in Overrun Monitoring - Speed Signal Not Plausible
3267	129	Engine Controller High side supply #3 to fuel filter heater - Short-circuit to Battery
3268	129	Engine Controller High side supply #3 to fuel filter heater 3 - Short-circuit to Ground
3269	12D	Grid Heater Switch On Test - Voltage Drop Too High
3270	12D	Grid Heater Switch On Test - Voltage Drop Too Low
3271	13D	Fuel Low Pressure Sensor - (via CAN) No Signal
3272	13D	Fuel Low Pressure Sensor - Signal Above Range Max.
3273	13D	Fuel Low Pressure Sensor - Signal Below Range Min.
3274	23D	Fuel Low Pressure Sensor Dynamic Plausibility Test - Above Map
3275	23D	Fuel Low Pressure Sensor Dynamic Plausibility Test - Below Map
3276	1B9	MIL Visualization Not Available for BC2EDC1
3277	1BA	Timeout of CAN Message Dashboard Display
3278	1E9	ECM Internal Supply Voltage Too High - CJ940 Above Limit F5C: ECU Power stages : Irregular switch off or reset of ECU without completely shutdown - not repairable
3279	1EA	ECM Internal Supply Voltage Too Low - CJ940 Below Limit
3280	1E6	Sensor Supply Voltage 1 - High
3281	1E6	Sensor Supply Voltage 1 - Low

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CNH	DTC	Description
3282	1B6	Timeout of CAN Message WSI (Wheel Speed Info)
3283	1E7	Sensor Supply Voltage 2 - High
3284	1E7	Sensor Supply Voltage 2 - Low
3285	1E8	Sensor Supply Voltage 3 - High
3286	1E8	Sensor Supply Voltage 3 - Low
3287	14E	Turbo Compound Monitoring - No Signal
3288	14E	Turbo Compound Monitoring - Signal High
3289	14E	Turbo Compound Monitoring - Signal Low
3290	14E	Turbo Compound Monitoring - Signal Not Plausible
3291	151	Cylinder 1 Specific Errors - No Signal
3292	151	Cylinder 1 Specific Errors - Signal Low
3293	151	Fuel Metering Unit : maximum positive deviation of rail pressure exceeded C10 & C13 1ST P342: Cylinder 1 injector mechanical response fault
3294	151	Cylinder 1 Specific Errors - Signal Not Plausible
3295	152	Cylinder 2 Specific Errors - No Signal
3296	152	Cylinder 2 Specific Errors - Signal Low
3297	152	C10 & C13 1ST P342: Cylinder 2 injector mechanical response fault Rail Pressure Positive Deviation High and High Fuel Flow Setpoint Value
3298	152	Cylinder 2 Specific Errors - Signal Not Plausible
3299	153	Cylinder 3 Specific Errors - No Signal
3300	153	Cylinder 3 Specific Errors - Signal Low
3301	153	C10 & C13 1ST P342: Cylinder 3 injector mechanical response fault Rail Pressure Negative Deviation too High on Minimum Metering. Fuel Metering Unit : maximum negative rail pressure deviation with metering unit on lower limit is exceeded
3302	153	Cylinder 3 Specific Errors - Signal Not Plausible
3303	154	Cylinder 4 Specific Errors - No Signal
3304	154	Cylinder 4 Specific Errors - Signal Low
3305	154	C10 & C13 1ST P342: Cylinder4 injector mechanical response fault Rail Pressure below Minimum Limit in Controlled Mode Fuel Metering Unit : minimum rail pressure exceeded
3306	154	Cylinder 4 Specific Errors - Signal Not Plausible
3307	155	Cylinder 5 Specific Errors - No Signal
3308	155	Cylinder 5 Specific Errors - Signal Low
3309	155	C10 & C13 1ST P342: Cylinder 5 injector mechanical response fault Rail Pressure above Maximum Limit in Controlled Mode Fuel Metering Unit : maximum rail pressure exceeded
3310	155	Cylinder 5 Specific Errors - Signal Not Plausible
3311	156	Cylinder 6 Specific Errors - No Signal
3312	156	Cylinder 6 Specific Errors - Signal Low
3313	156	C10 & C13 1ST P342: Cylinder 6 injector mechanical response fault Rail Pressure Drop Rate too High
3314	156	Cylinder 6 Specific Errors - Signal Not Plausible
3315	16E	Minimum Number of Injections Not Reached - Stop Engine
3316	16E	Minimum Number of Injections Not Reached - Stop Engine

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CNH	DTC	Description
3317	16E	Minimum Number of Injections Not Reached - Stop Engine
3318	16E	Minimum Number of Injections Not Reached - Stop Engine
3319	2AF	DM1DCU SPN2 message - Error in DCU active
3320	3AF	DM1DCU SPN3 message - Error in DCU active
3321	4AF	DM1DCU SPN4 message - Error in DCU active
3322	5AF	DM1DCU SPN5 message - Error in DCU active
3323	1BC	Timeout of CAN Message RxAMCONlv (Ambient Conditions)
3324	1C1	Timeout of CAN Message EBC1 (Electronic Brake Switch)
3325	1C2	Timeout of CAN Message ETC1 (Transmission)
3326	2C2	Timeout of CAN Message ETC2 (Transmission)
3327	1C3	Timeout of CAN Message TCO1 (Tachograph)
3328	2C4	Timeout of CAN Message TSC1-AR (When Inactive)
3329	2C4	Timeout of CAN Message TSC1-AR (When Active)
3330	1C5	Timeout of CAN Message TSC1-DE (When Inactive)
3331	1C5	Timeout of CAN Message TSC1-DE (When Active)
3332	2C5	Timeout of CAN Message TSC1-DR (When Inactive)
3333	2C5	Timeout of CAN Message TSC1-DR (When Active)
3334	1C6	Timeout of CAN message TSC1-PE Torque (When Active)
3335	2C6	Timeout of CAN message TSC1-PE Torque (When Inactive)
3336	2C7	Timeout of CAN Message TSC1-TR (When Inactive)
3337	2C7	Timeout of CAN Message TSC1-TR (When Active)
3338	3C8	Timeout of CAN message TSC1-VE Speed (When Inactive)
3339	1C8	Timeout of CAN message TSC1-VE Speed (When Active)
3340	2C9	Timeout of CAN Message Time Date
3341	3C9	Timeout of CAN Message HRVD (High Resolution Vehicle Distance)
3342	12C	Power Stage Air Heater 2 Actuator - No Signal
3343	12C	Power Stage Air Heater 2 Actuator - Signal High
3344	12C	Power Stage Air Heater 2 Actuator - Signal Low
3345		Total Throttle Failure (Only applies to Dual Throttle Vehicles)
3346	114	Multiple State Switch
3347	114	Multiple State Switch
3348	114	Multiple State Switch
3349	114	Multiple State Switch
3350	11A	Terminal 50 - Always On
3351	127	Engine Brake Decompression Valve - Open Load
3352	127	Engine Brake Decompression Valve - Short-circuit to Battery
3353	127	Engine Brake Decompression Valve - Short-circuit to Ground
3354	12A	Main Relay 4 (Engine Brake Exhaust Valve) - Short circuit to Ground
3355	12A	Tier 3: Main Relay 4 (Engine Brake Exhaust Valve) - Short-circuit to Battery Tier 4a: Engine Controller High side supply #4 to Exhaust Brake flap actuator - Short to Battery or open load
3356	157	Cylinder Shutoff (Cylinder Balancing Disabled) - Shutoff Active
3357	17B	Misfire in Multiple Cylinders - Too Many Misfires
3358	1B7	CAN Transmit Timeout
3359	1B8	TSC Demand Physically Unplausible
3360	1BE	Driving Dynamic Control - Not Plausible
3361	1D2	ECM EEPROM - General Error
3362	1DA	Torque to Quantity Map - Not Plausible
3363	1EB	Atmospheric Pressure Sensor - Processed via ADC (no CAN Plausibility Performed)



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CNH	DTC	Description
3364	212	Foot Pedal 2 - Signal Too High
3365	212	Foot Pedal 2 - Signal Too Low
3366	212	Foot Pedal 2 - Signal Not Plausible Compared to Foot Pedal 1
3367	232	Coolant Temperature Test Failure
3368	19D	Info: Torque Limitation due to OBD Performance Limiter by Legislation
3369	19E	Torque Reduction due to Smoke Limitation
3370	49E	Info: Torque Limitation due to Engine Protection (against Excessive Torque, Engine Overspeed and Overheat)
3371	69E	Info: Torque Limitation due to Fuel Quantity Limitation because of Injection System Errors
3372	17F	Injection Quantity Adjustment failure - Invalid Adjustment Value
3373	17F	Injection Quantity Adjustment failure - EEPROM Adjustment Value Not Readable
3374	17F	Injection Quantity Adjustment failure - Invalid EEPROM Adjustment Value Checksum
3375		Constant Engine RPM Increase / Decrease Switch - Short-circuit to Battery
3376		Engine Controller Software Does Not Support Power Management (Engine Power Management Option Enabled, but Engine Software Not Compatible)
3377		Constant Engine RPM Switch Detected but Option Not Enabled.
3380		Engine Fan Increase Speed Error (open or short circuit)
3381		Engine Fan Decrease Speed Error (open or short circuit)
3382		Fan Control Solenoid Short To 12Vr
3383		Fan Control Solenoid Open Or Short To GND
3384		Vistronic Engine Cooling Fan driver open or short circuit
3385		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3386		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3387		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3388		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3389		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3390		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3391		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3392		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3393		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3394		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3395		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3396		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3397		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3398		Reserved For VCM (Vehicle Control Module) for VCM Generated Errors
3399		Engine Fuel Lift Pump relay driver over current fault
3400	608	Lambda sensor : Lambda Sensor inner Resistance calibration value too High
3401	608	Lambda sensor : Lambda Sensor inner Resistance calibration value too Low
3402	535	Rail pressure sensor : maximum rail pressure exceeded
3403	2E1	ECU Power stages : Starter relay HS power stage over temperature
3404	2A9	Charge Air cooler : Signal error for Charge air cooler downstream Temperature
3405	393	ECU Power stages : Open load temperature error on the Turbocharger PWM output power stage
3406	393	ECU Power stages : Over temperature error on the Turbocharger PWM output power stage
3407	3B6	CAN Bus: Timeout Error of CAN-Transmit-Frame EDC to NOx Sensor (EDC2NOx: Engine operation status, engine speed, Dew point, exhaust temperatures)
3408	60D	Lambda sensor : Oxygen concentration implausibly high

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
3409	238	Oil pressure sensor : Defect fault check for minimum oil pressure from sensor
3410	58C	Permanent governor deviation for valve
3411	58C	Permanent governor deviation for valve
3412	34D	Speed limitation activates torque limitation
3413	64C	Overheat protection activates torque limitation
3512	31D	DCU State Monitoring - DCU not ready in time
3513	41E	SCR Catalyst not present - Relation of temperature behavior between both Catalyst Temperatures not plausible
3514	41E	Reserved For VCM (Vehicle Control Module)
3515	41E	Reserved For VCM (Vehicle Control Module)
3516	41E	Reserved For VCM (Vehicle Control Module)
3517	13C	Ambient Air Temperature Sensor failure (of Humidity Sensor) - Signal too high
3518	13C	Ambient Air Temperature Sensor failure (of Humidity Sensor) - Signal too low
3519	13C	Ambient Air Temperature Sensor failure (of Humidity Sensor) - CAN Signal failure
3520	13C	Reserved For VCM (Vehicle Control Module)
3521	19F	NOx Estimation failure - Estimated Nox signal not reliable
3522	19F	Reserved For VCM (Vehicle Control Module)
3523	19F	Reserved For VCM (Vehicle Control Module)
3524	19F	Reserved For VCM (Vehicle Control Module)
3525	1A2	Reserved For VCM (Vehicle Control Module)
3526	1A2	Reserved For VCM (Vehicle Control Module)
3527	1A2	Reserved For VCM (Vehicle Control Module)
3528	1A2	NOx Sensor Plausibility failure - Signal not plausible
3529	1A3	NOx Sensor Failure - Open Load
3530	1A3	NOx Sensor Failure - Short Circuit
3531	1A3	Reserved For VCM (Vehicle Control Module)
3532	1A3	NOx Sensor Failure - Sensor not ready in time
3533	1A4	CAN Message timeout Nox (from Nox Sensor) - CAN timeout
3534	1A4	Reserved For VCM (Vehicle Control Module)
3535	1A4	Reserved For VCM (Vehicle Control Module)
3536	1A4	Reserved For VCM (Vehicle Control Module)
3537	1A5	CAN Message timeout DM1DCU (from DCU) - CAN timeout
3538	1A5	Reserved For VCM (Vehicle Control Module)
3539	1A5	Reserved For VCM (Vehicle Control Module)
3540	1A5	Reserved For VCM (Vehicle Control Module)
3541	1A6	CAN Message timeout SCR1 (from DCU) - CAN timeout
3542	1A6	Reserved For VCM (Vehicle Control Module)
3543	1A6	Reserved For VCM (Vehicle Control Module)
3544	1A6	Reserved For VCM (Vehicle Control Module)
3545	1A8	Info: SCR Dosing Valve Overheat Protection - Torque Limitation Level2 for SCR Protection active
3546	1A8	Info: SCR Dosing Valve Overheat Protection - Torque Limitation Level1 for SCR Protection active
3547	1A8	Reserved For VCM (Vehicle Control Module)
3548	1A8	Reserved For VCM (Vehicle Control Module)
3549	1AE	Humidity Sensor Signal Ratio failure - Signal Ratio above Limit
3550	1AE	Humidity Sensor Signal Ratio failure - Signal Ratio below Limit
3551	1AE	Reserved For VCM (Vehicle Control Module)

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
3552	1AE	Reserved For VCM (Vehicle Control Module)
3553	2A6	Reserved For VCM (Vehicle Control Module)
3554	2A6	Reserved For VCM (Vehicle Control Module)
3555	2A6	CAN Message timeout SCR2 (from DCU) - CAN timeout
3556	2A6	Reserved For VCM (Vehicle Control Module)
3557	2AE	Info: Humidity Sensor possibly saturated with water droplets - Signal Ratio above Limit
3558	2AE	Info: Humidity Sensor possibly saturated with water droplets - Signal Ratio below Limit
3559	2AE	Reserved For VCM (Vehicle Control Module)
3560	2AE	Reserved For VCM (Vehicle Control Module)
3561	3A2	NOx value not plausible (Aftertreatment plausibility)
3562	3A2	Reserved For VCM (Vehicle Control Module)
3563	3A2	Reserved For VCM (Vehicle Control Module)
3564	3A2	Reserved For VCM (Vehicle Control Module)
3565	4AA	Urea quality and urea warning level 1
3566	4AA	Reserved For VCM (Vehicle Control Module)
3567	4AA	Reserved For VCM (Vehicle Control Module)
3568	4AA	Reserved For VCM (Vehicle Control Module)
3569	5AA	urea quality and urea warning level 2
3570	5AA	Reserved For VCM (Vehicle Control Module)
3571	5AA	Reserved For VCM (Vehicle Control Module)
3572	5AA	Reserved For VCM (Vehicle Control Module)
3573	6AA	urea quality and urea warning level 3
3574	6AA	Info: SCR Inducement: Warning Block 3 activated
3575	6AA	Reserved For VCM (Vehicle Control Module)
3576	6AA	Reserved For VCM (Vehicle Control Module)
3577	1AF	DM1DCU SPN1 message - Error in DCU active
3578	1AF	Reserved For VCM (Vehicle Control Module)
3579	1AF	Reserved For VCM (Vehicle Control Module)
3580	1AF	Reserved For VCM (Vehicle Control Module)
3581	14F	Performance limit active due to either stage - Performance Limitation active
3582		Reserved For VCM (Vehicle Control Module)
3583		Reserved For VCM (Vehicle Control Module)
3584		Reserved For VCM (Vehicle Control Module)
3585	11D	Engine shut off (after idling phase)
3586	11F	Plausibility check of catalyst system - Temperature after Catalyst not plausible
3587	11F	Plausibility check of catalyst system - Temperature before Catalyst not plausible
3588	11F	Plausibility check of catalyst system - Ambient Temperature of Humidity Sensor or both Catalyst Temperatures not plausible
3589	11F	Plausibility check of catalyst system - Temperature Deviation between up- and downstream Catalyst Temperature too high during Operation
3590	11F	
3591	21D	SCR Catalyst Thermal Ageing Limit exceeded - P0422 Main Catalyst Efficiency Below Threshold
3592	21D	
3593	41D	Poor Reagent quality
3594	59D	indicates torque limitation due to SCR

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
3595	5A7	Minimum urea level 1
3596	6A7	Minimum urea level 2
3597	7A7	Minimum urea level 3
3598		Reserved For VCM (Vehicle Control Module)
3599	1FB	error path of oxidation catalyst not present Warm Up Catalyst Efficiency Below Threshold
3600	1FB	Reserved For VCM (Vehicle Control Module)
3601	1FB	Reserved For VCM (Vehicle Control Module)
3602	1FC	defect ratio between threshold limits - P0425 Catalyst Temperature Sensor Circuit
3603	1FC	
3604	1FC	
3605	1FD	Temperature of Outer control loop - Temperature deviation above Limit
3606	1FD	Temperature of Outer control loop - Temperature deviation below Limit
3607	1FD	Reserved For VCM (Vehicle Control Module)
3608	1FD	Reserved For VCM (Vehicle Control Module)
3609	7AA	urea quality and urea warning level 4
3610		Reserved For VCM (Vehicle Control Module)
3611	21E	Catalyst efficiency lower than first Nox prediction threshold level
3612	31E	Catalyst efficiency lower than second Nox prediction threshold level
3613	31F	Too high efficiency of catalyst system
3614	29C	SRA2EDC high effort fault
3615	39C	SRA2EDC initialization fault
3616	39E	torque limitation due to turbo charger protection
3617	6AD	urea quality and urea warning level 9
3618	24F	Emergency start time expired and shutdown initiated
3619	4AD	urea quality and urea warning level 7
3620	5AD	urea quality and urea warning level 8
3621	2AD	urea quality and urea warning level 5
3622		Reserved For VCM (Vehicle Control Module)
3623	71D	Lambda Signal of NOx Sensor deviation (NOx sensor removal is detected)
3624	139	Crank case pressure sensor - Voltage above upper limit
3625	139	Crank case pressure sensor - Voltage below lower limit
3626	239	Crank case pressure sensor not plausible
3627	339	Crank case pressure sensor physical range check (above upper limit)
3628	339	Crank case pressure sensor physical range check (below upper limit)
3629	439	Plausibility check for Crank Case pressure sensor failed
3630	24C	Fuel in Oil refill
3631	34C	Fuel in Oil sensor plausibility
3632	44C	Fuel in Oil valve plausibility
3633	257	Fuel in Oil delayed expected reaction
3634	357	Fuel in Oil delayed refill
3635	457	Fuel in Oil high pressure (FUEL IN OIL)
3636	557	Fuel in Oil expected reaction
3637	657	Fuel in Oil not expected reaction
3638	29D	torque limitation due to NTC
3639	2A2	NOx Sensor drift test
3640	193	Turbine speed - Signal too high

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
3641	193	Turbine speed - Signal too low
3642	193	Turbine speed - Signal not valid
3643	193	Turbine speed - Signal not plausible
3644	196	P3 pressure errors in EPCTl - Exhaust Pressure upstream Turbine too high
3645	196	P3 pressure errors in EPCTl - Exhaust Pressure upstream Turbine too high
3646	198	Multi signal defects in PCR
3647	199	P2 pressure errors in PCR - Pressure too high
3648	199	P2 pressure errors in PCR- Pressure deviation too high
3649		Reserved For VCM (Vehicle Control Module)
3650	226	Battery voltage : SRC high for battery voltage sensor
3651	226	Battery voltage : SRC low for battery voltage sensor
3652	1B1	CAN Bus : Bus off of CAN node A
3653	1B1	Not Used
3654	24E	Charge Air cooler : Difference between measured and calculated temperature
3655	39D	Torque limitation, Engine protection : General report of the event of torque limitations
3656	49D	Torque limitation, Engine protection : Torque limitation caused by particulate filter
3657	7BA	CAN Bus Received frames : Timeout Error of CAN-Receive-Frame CM1BC
3658	1D1	ECU Power stages : SPI/COM-Errors of the power failure detection of CY320
3659	326	Battery voltage : Power stage diagnosis could be disabled due to high Battery voltage
3660	326	Battery voltage : Power stage diagnosis could be disabled due to low Battery voltage
3661	282	EGR Control : EGR governor deviation negation error
3662	282	EGR Control : EGR governor deviation positive error
3663	382	EGR command saturation over higher threshold
3664	382	EGR command saturation over lower threshold
3665	589	Permanent governor deviation for valve
3666	589	Permanent governor deviation for valve
3667	58B	Open load error for power stage
3668	58B	Over temperature error for H-bridge
3669	68B	Short circuit to battery on Out1 error for H-bridge
3670	68B	Short circuit to battery on Out2 error for H-bridge
3671	68B	Short circuit to ground on Out1 error for H-bridge
3672	68B	Short circuit to ground on Out2 error for H-bridge
3673	68B	Short circuit over load error for H-bridge
3674	68B	Under voltage error for H-bridge
3675	689	DFC for long time valve drift at closed position
3676	789	DFC for valve position sensor voltage SRC high
3677	789	DFC for valve position sensor voltage SRC low
3678	332	Temperature sensors : below plausible temperature
3679	332	Temperature sensors : over plausible temperature
3680	256	Injection cut off : Injection cut off demand (ICO) for shut off coordinator
3681	54D	Engine protection due to blow-by
3682	2F7	Exhaust temperature : Fault Check for enhanced SRC-Max of First exhaust gas temperature
3683	2F7	Exhaust temperature : Fault Check for enhanced SRC-Min of First exhaust gas temperature
3684	3F7	Exhaust temperature : Fault Check for enhanced SRC-Max of Second exhaust gas temperature

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

### Diagnostic Trouble Code (DTC) References FPT Engine Code CNH Fault Code References Vehicle Displayed Code

CNH	DTC	Description
3685	3F7	Exhaust temperature : Fault Check for enhanced SRC-Min of Second exhaust gas temperature
3686	2F8	Exhaust temperature : Fault for cold start condition of exhaust-gas temperature sensor 1
3687	3F8	Exhaust temperature : Fault check for cold start condition of exhaust-gas temperature sensor 2
3688	11C	Water sensor in the fuel filter: WIF Sensor Check is failed.
3689	52C	DFC for faulty diagnostic data transmission or protocol error
3690	52C	DFC for glow module error in GCU-T
3691	32B	No load error for Low Voltage System
3692	32B	Over temperature error on ECU power stage for Glow plug Low Voltage System
3693	32B	Short circuit to battery error for Low Voltage System
3694	32B	Short circuit to ground error for Low Voltage System
3695	62C	Array of DFCs for failure in i+1th Glow Plug
3696	62C	Array of DFCs for failure in i+1th Glow Plug
3697	62C	Array of DFCs for failure in i+1th Glow Plug
3698	62C	Array of DFCs for failure in i+1th Glow Plug
3699	5D2	EEPROM: Error in EEPROM block EEPROMData1. SD correction cannot be calculated
3700	2AE	Humidity Sensor : Plausibility check for the humidity sensor signal
3701	17E	Not Used
3702	244	Injection control : Detection of Failed Engine Start
3703	26F	Injection control : check of minimum rail pressure
3704	27F	Injector Adjustment programming : check of missing injector adjustment value programming
3705	37F	Injector Adjustment programming : check of missing injector adjustment value programming
3706	47F	Injector Adjustment programming : check of missing injector adjustment value programming
3707	601	Lambda sensor : Open circuit at the lambda sensor Nernst cell pin
3708	602	Lambda sensor : open circuit at the lambda sensor pump current pin - IP (lambda = 1 detection)
3709	606	Lambda sensor : Open circuit at the lambda sensor Virtual ground pin
3710	603	Lambda sensor : Fault to indicate Dynamics of the sensor signal too small
3711	18F	Lambda sensor : SCB error of the LSU Heater Power stage
3712	18F	Lambda sensor : SCG error of the LSU Heater Power stage
3713	18F	Lambda sensor : Open Load error of the LSU Heater Power stage
3714	607	Lambda sensor : Fault code to indicate SRC High error for O2 calibration
3715	607	Lambda sensor : Fault code to indicate SRC Low error for O2 calibration
3716	605	Lambda sensor : O2 value above the max threshold
3717	60F	Lambda sensor : Oxygen concentration implausibly high in overrun
3718	60F	Lambda sensor : Oxygen concentration implausibly low in overrun
3719	601	Fault check for sigma exceeding maximum limit
3720	60A	Lambda sensor : low battery voltage at the SPI chip
3721	609	Lambda sensor : Fault check to indicate SPI chip error of lambda sensor
3722	60C	Lambda sensor : LSU sensor temperature Ri exceeds the maximum limit
3723	60C	Lambda sensor : LSU sensor temperature Ri is below the minimum limit
3724	60B	Lambda sensor : short to battery at IA,IP, UN, VG
3725	60B	Lambda sensor : short to ground at IA,IP, UN, VG
3726	1FF	Fuel in oil detection : DFC to indicate that the fuel in oil has exceeded the Maximum limit
3727	1FF	Info : Low oil viscosity

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
3728	1FF	Info : Too low oil viscosity
3729	1FE	Fuel in oil detection : DFC to indicate that the fuel in oil has exceeded the warning limit
3730	1EF	Soot in oil detection : DFC to indicate that the Soot in oil has exceeded the Max limit
3731	114	PTO switch : Diagnostic fault check for signal error of COM message
3732	114	PTO switch : Diagnostic fault check for max error of COM message
3733	114	PTO switch : Diagnostic fault check for min error of COM message
3734	114	PTO switch : Diagnostic fault check non plausibility of COM message
3735	559	Fuel Metering Unit : over temperature of device driver of metering unit
3736	604	Lambda sensor : O2 concentration is outside the predefined window during Heater coupling detection
3737	18F	Lambda sensor : Over temperature error of the LSU Heater Power stage
3738	2D4	Analog Digital Converter (ADC) : Diagnostic fault check to report multiple error while checking the complete ROM-memory
3739	3D4	Power stages, Injector: Loss of synchronization sending bytes to the MM from CPU.
3740	3D4	Power stages, Injector : DFC to set a torque limitation once an error is detected before MoCSOP's error reaction is set
3741	3D4	Power stages, Injector : Wrong set response time
3742	3D4	Power stages, Injector: Too many SPI errors during MoCSOP execution.
3743	4D4	Power stages, Injector : Diagnostic fault check to report the error in under voltage monitoring
3744	4D4	Power stages, Injector : Diagnostic fault check to report the error in overvoltage monitoring
3745	5D4	Power stages, Injector : Diagnostic fault check to report that WDA is not working correct
3746	5D4	Power stages, Injector: OS timeout in the shut off path test. Failure setting the alarm task period.
3747	5D4	Power stages, Injector : Diagnostic fault check to report that the positive test failed
3748	5D4	Power stages, Injector : Diagnostic fault check to report the timeout in the shut off path test
3749	2E3	Accelerator Pedal : Diagnostic fault check to report the accelerator pedal position error
3750	3E3	Injection control : Error in the plausibility of the injection energizing time
3751	3E3	Injection control : Error in the plausibility of the start of energizing angles
3752	3E3	Zero Fuel Calibration (ZFC) : Error in the plausibility of the energizing times of the zero fuel quantity calibration
3753	3E3	Level 2 Monitoring : Diagnostic fault check to report the error due to injection quantity correction
3754	3E3	Level 2 Monitoring : Diagnostic fault check to report the plausibility error in rail pressure monitoring
3755	3E3	Level 2 Monitoring : Diagnostic fault check to report the error due to torque comparison
3756	4E3	Level 2 Monitoring : Diagnosis fault check to report the demand for normal mode due to an error in the Pol2 quantity
3757	4E3	Level 2 Monitoring : Diagnosis fault check to report the error to demand for an ICO due to an error in the Pol2 shut-off
3758	4E3	Level 2 Monitoring : Diagnosis fault check to report the error to demand for an ICO due to an error in the Pol3 efficiency factor
3759	5E3	Level 2 Monitoring : Diagnosis of current path limitation forced by ECU monitoring level 2
3760	5E3	Level 2 Monitoring : Diagnosis air path limitation due to a functional control unit monitoring forced by ECU monitoring level 2

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

### Diagnostic Trouble Code (DTC) References FPT Engine Code CNH Fault Code References Vehicle Displayed Code

CNH	DTC	Description
3761	5E3	Level 2 Monitoring : Diagnosis quantity path limitation due to a functional control unit monitoring (level 2)
3762	426	Level 2 Monitoring : Reported Overvoltage of Supply
3763	426	Level 2 Monitoring : Reported Under Voltage of Supply
3764	225	Main Relay : Early opening defect of main relay
3765	6F3	Diesel Particulate filter Pressure sensor : Fault check for Hose line connection
3766	1F3	Diesel Particulate filter Pressure sensor : Fault check for the pressure sensor plausibility
3767	6D4	ECU internal : Diagnostic fault check to report 'WDA active' due to errors in query-/response communication
3768	6D4	ECU internal : Diagnostic fault check to report 'ABE active' due to under voltage detection
3769	6D4	ECU internal : Diagnostic fault check to report 'ABE active' due to overvoltage detection
3770	6D4	ECU internal : Diagnostic fault check to report 'WDA/ABE active' due to unknown reason
3771	2F6	Oxidation Catalyst : Up and down stream temperature sensors in Oxidation catalysts exchanged
3772	199	Turbocharger : Over boost deviation at P2 too high in Pressure charger regulator
3773	299	Turbocharger : Under boost detected in Pressure charger regulator
3774	2F4	Diesel particulate filter (DPF) : Volume of Ash load has exceeded the limit
3775	1F2	Diesel particulate filter (DPF) : Monitoring of the characteristic pressure reduction of the particulate filter - max
3776	1F2	Diesel particulate filter (DPF) : Monitoring of the characteristic pressure reduction of the particulate filter - min
3777	6F9	Clogged DPF filter
3778	3F4	Diesel particulate filter (DPF) : Diagnostic fault check for min deviation measure from simulated and measured particulate mass
3779	7F5	Diesel particulate filter (DPF) : Diagnostic fault check for particulate filter efficiency
3780	1F5	Engine Protection : Engine protection active due to particulate filter
3781	5F4	Diesel particulate filter (DPF) : DFC for Forced regeneration error
3782	4F4	Diesel particulate filter (DPF) : Diagnostic fault check for too frequent regeneration of the particulate filter
3783	3FA	Diesel particulate filter (DPF) : Fault path for maximum number of locked regenerations for HD
3784	4FA	Diesel particulate filter (DPF) : Fault path for maximum number of locked regenerations for HD
3785	1FA	Diesel particulate filter (DPF) : Fault path for maximum number of locked regenerations
3786	3F9	Level 2 of PFI Overloaded
3787	4F9	Level 3 of PFI Overloaded
3788	6F5	Diesel particulate filter (DPF) : Diagnostic fault check for incomplete regeneration of particulate filter
3789	6F4	To check if regeneration duration exceeds maximum allowed duration
3790	2F5	Diesel particulate filter (DPF) : Signal range check flow resistance of the particulate filter - max
3791	5F9	Diagnostic fault check for SRC high in Flow Resistance
3792	6F5	Conditions non plausible for PFI emergency regeneration inhibition
3793	3F5	Diesel particulate filter (DPF) : Conditions non plausible for DPF emergency regeneration
3794	134	Intake air pressure sensor : Plausibility Check for air pressure at the upstream of



## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
		intake valve sensor
3795	134	Intake air pressure sensor : Plausibility Check for air pressure at the upstream of intake valve sensor
3796	5F5	Diesel Particulate filter Pressure sensor : DFC to indicate hose line error
3797	1F1	Diesel Particulate filter Pressure sensor : SRC High for PFI differential pressure sensor
3798	1F1	Diesel Particulate filter Pressure sensor : SRC low for PFI differential pressure sensor
3799	237	Pressure Relief valve : pressure relief valve is forced to open, perform pressure shock
3800	237	Pressure Relief valve : Quantity balance check if a successful PRV opening is ensured
3801	49B	Turbine upstream pressure sensor : SRC High for Turbine upstream pressure sensor
3802	49B	Turbine upstream pressure sensor : SRC low for Turbine upstream pressure sensor
3803	2D1	ECU internal : Error on R2S2 module (Low-Level Chip driver for the Power stage-Chips)
3804	335	Fuel Metering Unit : Threshold of the battery under voltage for switching to start with MeUn procedure
3805	535	Rail pressure sensor : maximum rail pressure exceeded
3806	337	Rail system : Rail pressure reduction by blank shots during after run (BSA) aborted during post drive of ECU
3807	252	Fuel Metering Unit : maximum negative rail pressure deviation with metering unit on lower limit is exceeded (second stage)
3808	455	Fuel Metering Unit : set point of metering unit in idle mode not plausible
3809	555	Fuel Metering Unit : maximum rail pressure exceeded - overrun detection
3810	435	Fuel pressure Sensor : Rail pressure raw value is intermittent
3811	1E6	ECU Sensor Supply Monitor : ECU internal: Error Sensor supplies 1
3812	2CC	Physical Range Check high for ECU temperature sensor
3813	2CC	Physical Range Check low for ECU temperature sensor
3814	2CC	ECU temperature sensor : SPI Error ECU temperature sensor (LM71)
3815	2F9	Low efficiency in DPF filter
3816	58C	Permanent governor deviation for valve
3817	58C	Permanent governor deviation for valve
3818	48D	Open load error for power stage
3819	48D	Over current error for H-bridge
3820	48D	Over temperature error for H-bridge
3821	58D	Short circuit to battery on Out1 error for H-bridge
3822	68D	Short circuit to battery on Out2 error for H-bridge
3823	58D	Short circuit to ground on Out1 error for H-bridge
3824	68D	Short circuit to ground on Out2 error for H-bridge
3825	78D	Short circuit over load error for H-bridge
3826	78D	Temperature dependent over current error for H-bridge
3827	78D	Under voltage error for H-bridge
3828	38B	ECU Power stages : Throttle valve actuator power stage: Open load
3829	38B	ECU Power stages : Throttle valve actuator power stage: Over temperature
3830	78B	DFC for valve position sensor physical SRC high
3831	78B	DFC for valve position sensor physical SRC low
3832	18B	ECU Power stages : Throttle valve actuator power stage: Short circuit to battery error
3833	28B	ECU Power stages : Throttle valve actuator power stage: Short circuit to ground
3834	78B	ECU Power stages : Throttle valve actuator power stage: SRC High

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
3835	78B	ECU Power stages : Throttle valve actuator power stage: SRC low
3836	1F6	OxiCat downstream temperature sensor : SRC High
3837	1F6	OxiCat downstream temperature sensor : SRC low
3838	3F6	OxiCat upstream temperature sensor : Diagnostic fault check for SRC high in Oxidation Catalyst upstream temperature
3839	3F6	OxiCat upstream temperature sensor : Diagnostic fault check for SRC low in Oxidation Catalyst upstream temperature
3840	1F7	Diesel Particulate filter upstream temperature sensor : Diagnostic fault check for SRC high
3841	1F7	Diesel Particulate filter upstream temperature sensor : Diagnostic fault check for SRC low
3842	29B	Turbine upstream temperature sensor : SRC High for turbine upstream temperature sensor
3843	29B	Turbine upstream temperature sensor : SRC low for turbine upstream temperature sensor
3844	25A	Zero Fuel Calibration by Lambda (ZFL) : DFC reporting error state on comparing energizing time to Max value injector 1
3845	35A	Zero Fuel Calibration by Lambda (ZFL) : DFC reporting error state on comparing energizing time to Max value injector 2
3846	45A	Zero Fuel Calibration by Lambda (ZFL) : DFC reporting error state on comparing energizing time to Max value injector 3
3847	55A	Zero Fuel Calibration by Lambda (ZFL) : DFC reporting error state on comparing energizing time to Max value injector 4
3848	25A	Zero Fuel Calibration by Lambda (ZFL) : DFC reporting error state on comparing energizing time to Min value injector 1
3849	35A	Zero Fuel Calibration by Lambda (ZFL) : DFC reporting error state on comparing energizing time to Min value injector 2
3850	45A	Zero Fuel Calibration by Lambda (ZFL) : DFC reporting error state on comparing energizing time to Min value injector 3
3851	55A	Zero Fuel Calibration by Lambda (ZFL) : DFC reporting error state on comparing energizing time to Min value injector 4
3852	602	Lambda sensor : The maximum allowed time for blow out is exceeded
3853	60E	Lambda sensor : Oxygen concentration implausibly high in part load operation
3854	60D	Lambda sensor : Oxygen concentration implausibly low in full load operation
3855	60E	Lambda sensor : Oxygen concentration implausibly low in part load operation
3856	19A	Turbine speed errors in PCR - Reversible Overspeed
3857	19A	Turbine speed errors in PCR - Irreversible Overspeed
3858	296	EVGT actuator position
3859	296	EVGT actuator plausibility
3860	396	EVGT command timeout
3861	496	EVGT electrical failure (voltage)
3862	496	EVGT electrical failure (motor)
3863	496	EVGT electrical failure (sensor)
3864	496	EVGT electrical failure (internal failure)
3865	596	EVGT system failure (initialization)
3866	596	EVGT system failure (learn)
3867	596	EVGT system failure (spare)
3868	596	EVGT system failure (temperature)
3869	2A7	SCR2 message: low urea level
3870	1B4	Timeout for BC2EDC1
3871	601	Lambda sensor : Pressure compensation factor exceeding maximum limit

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
3872	601	Lambda sensor : pressure compensation factor exceeding minimum limit
3873	3C7	Timeout of CAN message TSC1-TE passive
3874	4C4	Timeout of CAN message TSC1-AR passive
3875	4C5	Timeout of CAN message TSC1-DR passive
3876	4C7	Timeout of CAN message TSC1-TR passive
3877	425	Short circuit to battery error at high side actuator relay with index x = 0
3878	525	Short circuit to battery error at high side actuator relay with index x = 1
3879	625	Short circuit to battery error at high side actuator relay with index x = 2
3880	725	Short circuit to battery error at high side actuator relay with index x = 3
3881	425	Short circuit to ground error at high side actuator relay with index x = 0
3882	525	Short circuit to ground error at high side actuator relay with index x = 1
3883	625	Short circuit to ground error at high side actuator relay with index x = 2
3884	131	Engine Cooling Water Temperature Sensor: Physical Signal above maximum limit
3885	-	-
3886	-	-
3887	-	-
3888	29E	Strong torque limitation from turbo compound active
3889	2D8	SPI communication Chip 1 defective
3890	3D8	SPI communication Chip 2 defective
3891	4D8	SPI communication Chip 3 defective
3892	5D8	SPI communication Chip 4 defective
3893	6D8	SPI communication Chip 5 defective
3894	227	High Side SCB error and Low side SCG error
3895	227	Engine Compression Release Valve: Short Circuit to Battery error at high side
3896	227	Engine Compression Release Valve: Short Circuit to Ground error at high side
3897	127	Engine Compression Release Valve: Over Temperature error at low side
3898	18D	EGR Cooler: Temperature deviation of intake air after EGR
3899	432	Info: Engine temperature exceeded pre-warn level
3900	532	Info: Engine temperature exceeded warn level
3901	6A5	NOx Sensor (CAN): NOx Sensor detects incorrect supply
3902	6A5	NOx Sensor (CAN): NOx Sensor temperature out of range
3903	135	Fuel Temperature Sensor: Physical Signal above maximum limit
3904	135	Fuel Temperature Sensor: failed plausibility check at ECU start
3905	12B	Air heater: Over temperature on Power stage 0
3906	17E	Injector: Number of injections is limited by quantity balance of high pressure pump
3907	57F	Injector Adjustment: IMA programming not correct for injector cylinder 3
3908	67F	Injector Adjustment: IMA programming not correct for injector cylinder 5
3909	2EF	High pressure in crankcase
3910	459	Fuel metering unit: Error check for loose contact between metering unit (MeUn) and ECU
3911	659	Fuel Metering Unit: Short Circuit to Battery at High Side
3912	759	Fuel Metering Unit: Short Circuit to Ground at High Side
3913	4F6	Active monitoring of the oxidation catalyst
3914	5F6	Oxicat Temp Monitoring: Passive monitoring of the oxidation catalyst
3915	137	Pressure Relief Valve: Averaged rail pressure is outside the expected range with open PRV
3916	237	Pressure Relief Valve: Open time of PRV for wear out monitoring had exceeded maximum value
3917	254	Fuel pressure control Metering unit: Fuel Rail pressure above maximum limit with MeUn Control (second stage)
3918	255	Fuel pressure control Metering unit: Too low fuel rail pressure in fast transient

## CNH EDC Tier 3 and Tier 4a Fault Code Cross Reference Chart (3000-3947)

**Diagnostic Trouble Code (DTC) References FPT Engine Code  
CNH Fault Code References Vehicle Displayed Code**

CNH	DTC	Description
		condition with MeUn Control
3919	6E3	Fuel pressure control Metering unit: Too low fuel rail pressure with MeUn Control with empty Tank
3920	6E3	Fuel pressure control Metering unit: Tool low fuel rail pressure concerning the fuel feeding with MeUn Control with empty Tank
3921	6E3	Fuel pressure (Rail) control: Leakage in high pressure system with empty tank
3922	6E3	Fuel pressure control Metering unit: Fuel rail pressure below limit with MeUn Control with empty tank
3923	7E3	Fuel pressure control Metering unit: Fuel Rail pressure above maximum limit with MeUn Control with empty tank
3924	7E3	Fuel pressure control Metering unit: Fuel Rail pressure above maximum limit with MeUn Control (second stage) with empty tank
3925	7E3	Fuel pressure control Metering unit: Too low fuel rail pressure in fast transient condition with MeUn Control with empty tank
3926	7E3	Fuel pressure control Metering unit: Leakage in overrun with empty tank
3927	7E3	Fuel pressure control Metering unit: Leakage in high pressure system detected at idle an empty fuel tank
3928	7E3	Fuel pressure control Metering unit: Exceeding of a maximum peak pressure at empty fuel tank
3929	435	Fuel pressure control Pressure Relief valve: maximum rail pressure in limp home mode with PRV and empty fuel tank
3930	7AD	Info: SCR Inducement: Warning Block 10 activated
3931	7AA	Info: SCR Inducement: Warning Block 4 activated
3932	2AD	Info: SCR Inducement: Warning Block 5 activated
3933	3AD	Info: SCR Inducement: Warning Block 6 activated
3934		Reserved For VCM (Vehicle Control Module)
3935		Reserved For VCM (Vehicle Control Module)
3936	2E8	Error sensors supplies voltage tracker
3937	182	Air Temp in AFS: Signal range high on the duty cycle signal
3938	182	Air Temp in AFS: Signal range high on the period of PWM signal
3939	3CC	ECU Temperature Sensor: Physical Signal ECU Temperature second sensor above maximum limit
3940	3CC	ECU Temperature Sensor: Physical Signal ECU Temperature second sensor below minimum limit
3941	2CC	ECU Temperature Sensor: Signal above maximum limit
3942	2CC	Diagnostic Fault Check for Signal below minimum limit
3943	4CE	Torque or speed control demand from Transmission Controller Retarder exceeding the maximum time
3944	5CE	Torque or speed control demand from VCM Retarder exceeding the maximum time
3945	6CE	Torque or speed control demand from ABS/ESR/ESP Retarder exceeding the maximum time
3946	7CE	Continuous negative torque control demand from Driveline Retarder exceeding the maximum time
3947	3CE	Torque or speed control demand from PTO Retarder exceeding the maximum time