













76.2 (3 in.)

25.4 (1 in.)

FORD MOTOR COMPANY
MODEL: SYNC-G4L
IC: 1422A-SYNG4L
FCC ID: KMH-SYNG4L
CNC ID:
IFT Numero:
NCA APPROVED:
ANATEL ID:
CMIIT ID:
JORDAN:













Certified for use in Hong Kong
 經認證可在香港使用
 Certificate No: 證書號碼
HK0021600018

通訊事務管理局
 COMMUNICATIONS
 AUTHORITY

245220245-0918/18

**Complies with
 IDA Standards
 N0300-16**


 TA-2015/2320





UAE - TRA
 REGISTERED No:
ER44883/16
 DEALER No:
D100428

OMAN - TRA
 TRA/TA-R/2993/16
D100428

AGREE PAR LE MCPT (REPUBLIQUE DE DJIBOUTI)
 Numéro d'agrément: 036/MCPT/58116
 Date d'agrément: 2016/01/28

Connection and use of this communications
 Equipment is permitted by the Nigerian
 Communications Commission



מספר אישור אלחוטני של משרד התקשורת הוא 51-52550
 אסור להחליף את האנטנה המקורית של המכשיר ולא
 לעשות בו כל שינוי מבני אחר

SAMPLE UNIT

KOREA CERT #: MSIP-

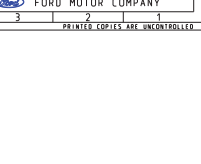
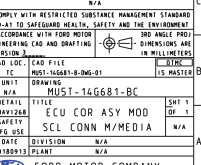
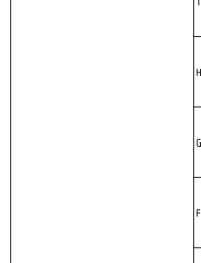
LTRS		REVISIONS	
ORIGINATOR	CHECKER	ENG APP	MATL APP
RELEASED			
		AA2	2019 04 11
ADAVI268	CDSID	CDSID	CDSID
ADDED SYNG4L TO IC AND FCC			
		AA3	2019 05 09
ADAVI268	CDSID	CDSID	CDSID

1. PART AS RECEIVED AT THE FORD PLANT OR SERVICE PART PACKAGER / WAREHOUSE MUST BE FREE OF ANY CORROSION ALIGNED WITH THE FORD CUSTOMER SERVICE DIVISION (FCSD) PACKAGING AND SHIPPING GUIDE. PACKAGING AND PROTECTIVE MATERIALS MUST PRESERVE THE INTENDED FUNCTION AND APPEARANCE OF THE PART
2. CHANGES TO DESIGN, COMPOSITION OR PROCESSING OF THE PART PREVIOUSLY APPROVED FOR PRODUCTION REQUIRE PRIOR APPROVAL FROM FORD MOTOR COMPANY PRODUCT ENGINEERING. REFER TO ISO/TS 16949
3. FOR CURRENT RELEASE STATUS, SEE THE WERS ENGINEERING NOTICE
4. FOR THE PURPOSES OF GEOMETRIC TOLERANCING, ALL DIMENSIONAL INFORMATION CONTAINED IN THE CAD MODEL IS BASIC (THEORETICAL)
5. THIS DRAWING HAS BEEN PREPARED BY OR ON BEHALF OF FORD MOTOR COMPANY. FORD MOTOR COMPANY RETAINS ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. THIS DRAWING MUST NOT BE USED FOR ANY PURPOSE OTHER THAN PERFORMING SERVICES DIRECTLY OR INDIRECTLY TO FORD MOTOR COMPANY, WITHOUT THE EXPRESSED WRITTEN PERMISSION OF FORD MOTOR COMPANY. UNAUTHORIZED USE, COPYING OR MODIFICATION, INCLUDING THE REMOVAL OF THIS NOTE, MAY CONSTITUTE A VIOLATION OF CIVIL OR CRIMINAL LAWS ENFORCEABLE BY FORD OR GOVERNMENTAL AGENCIES COPYRIGHT 2018 FORD MOTOR COMPANY
6. ENGINEERING APPROVAL OF PRODUCTION SAMPLES FOR EACH SUPPLIER IS REQUIRED PRIOR TO AUTHORIZATION OF INITIAL PRODUCTION.
7. SUPPLIER SPECIFICATIONS MAY APPLY AT PPAP – ALL SUPPLIER SPECIFICATIONS SHALL BE APPROVED FOR USE BY FORD MOTOR COMPANY PRODUCT ENGINEERING AND SHALL BE PRODUCED UPON REQUEST.
8. SOURCES FOR MATERIAL DEFINED BY FORD MATERIAL SPECIFICATIONS SHALL BE SELECTED FROM THE FORD MOTOR COMPANY ENGINEERING MATERIAL APPROVED SOURCE LIST.
9. UNIT OF MEASUREMENT: MILLIMETER (MM). ALL DIMENSIONS TO PROJECTED THEORETICAL SHARP CORNERS.
10. MATERIAL: BRADY B-423 OR EQUIVALENT 0.0762 MM THICK
 SUPPLIER MAY PURCHASE BRADY PRODUCT NUMBER 114181
 LABEL MUST MEET PERFORMANCE SPEC: PSA, INTERIOR WSS-M99P41-A31
11. GENERAL TOLERANCES: UNLESS OTHERWISE SPECIFIED
 0<DIM< 30 = +/-0.20MM
 30<DIM<120 = +/-0.30MM
 120<DIM<300 = +/-0.40MM
12. LABEL PRINTING MUST ADHERE TO FAA02-007-A TRACEABILITY LABEL REQUIREMENTS.
 (MIN TEXT SIZE, 2D BARCODE MIN PIXEL SIZE, ETC)

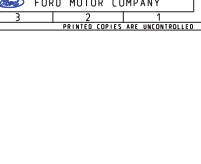
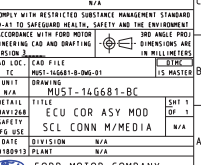
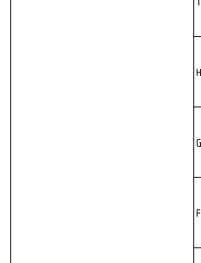
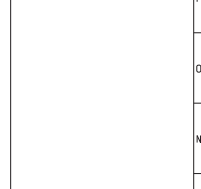
REFERENCE						N/A
PART MUST COMPLY WITH RESTRICTED SUBSTANCE MANAGEMENT STANDARD WSS-M99P9999-A1 TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT						
DRAFTED IN ACCORDANCE WITH FORD MOTOR COMPANY ENGINEERING CAD AND DRAFTING STANDARDS VERSION 30					 3RD ANGLE PROJ DIMENSIONS ARE IN MILLIMETERS	
CAD TYPE	CAD LOC.	CAD FILE			DTMC IS MASTER	
X-OTHER	TC	FNA-5467420-A-DWG-01			SIZE	
PLANT CODE	LINE CODE	OPER. NO.	BT. NO.	STATION	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	
PLANT NAME		DEPT. NO.	DESIGN	SCALE	SHT	1
N/A		N/A	CDSID	1 : 1	OF	1
TITLE/PART NAME						
LABEL RF CERTIFICATION						
DRAWING/PART NO.						N/A
FNA-5504044-AA-DWG-01						N/A
		FORD MOTOR COMPANY				

ORIGINATOR		CHECKER		ENGR APP		MTRL APP	
RELEASED							
ADAVI248	JHOLDEN	SSHERAL	SPRAMEIT				

QTY	ITEM	SUPPLIER PART NO.	FORD PART NO.	PART NAME	MATERIAL	MATERIAL FINISH	HEAT TREATMENT
1	1	FMCW-FNA380381-AB	P1A	ENCLOSURE, CASTING	AL 3800 ASTM B85/B85M	N/A	N/A
1	2	FMCW-FNA391925L-AA	P1A	WIFI ANT COVER	LEXAN EXL14 BLACK	NON-VISIBLE	N/A
1	3	FMCW-FNA380386-AA	P1A	BT ANTENNA COVER	LEXAN EXL14 BLACK	NON-VISIBLE	N/A
1	4	FMCW-PDP-63207-001	P1A	PCB ASSY	N/A	N/A	N/A
1	5	FMCW-FNA380388-AA	P1A	COVER SHEETMETAL	SAE J403 1008-1010	ZINC COATED PER SAE J1562 ED 2005	N/A
11	6	FMCW-FNA380381-01-AA	P1A	SCREW	STEEL/ZINC WA-950	CLEAR TRIVALENT	H4C 45 CASE HARDENED
1	7	FMCW-FNA120377-AA	P1A	LABEL, MAIN	POLYESTER, WHITE	BRADY B-423	N/A
1	8	FMCW-FNA546420-AA	P1A	RF CERT LABEL	POLYESTER, WHITE	BRADY B-423	N/A
1	9	FMCW-FNA168420-AA	P1A	SUPPLIER TRACKING LABEL	POLYESTER, WHITE	BRADY B-423	N/A



CONNECTOR DESCRIPTION



FOR FURTHER CONNECTOR INFO SEE NOTE 21.

ASSEMBLY BRANDING ON THIS LABEL

SCRAP IF DROPPED
COUNTRY OF ORIGIN
MFG L10 (CHART)
MFG DATE

GENERAL NOTES (UNLESS OTHERWISE SPECIFIED):

- SOURCES FOR MATERIALS DEFINED BY FORD MATERIAL SPECIFICATIONS SHALL BE SELECTED FROM THE FORD MOTOR COMPANY ENGINEERING MATERIAL APPROVED SOURCE LIST.
- OTHER THAN UNITED STATES MANUFACTURED COMPONENTS THE COUNTRY OF ORIGIN MUST BE MARKED IN ENGLISH.
- CHANGES TO DESIGN, COMPOSITION OR PROCESSING OF THE PART PREVIOUSLY APPROVED FOR PRODUCTION REQUIRE PRIOR APPROVAL FROM FORD MOTOR COMPANY PRODUCT ENGINEERING. REFER TO 150/15 1649.
- CHANGES TO SUPPORTING DOCUMENTS SHALL BE MANAGED USING THE DOCUMENTS REQUIRE CHANGE AND APPROVAL PROCESS.
- FOR CURRENT RELEASE STATUS, SEE THE WERS ENGINEERING NOTICE.
- PART MUST BE FREE OF BURRS, FLASH, AND SHARP EDGES THAT MAY AFFECT THE FUNCTION, SAFE HANDLING, AND INSTALLATION OR REMOVAL OF THE PART.
- PART AS RECEIVED AT THE FORD PLANT OR SERVICE PART PACKAGE/WAREHOUSE SHALL BE FREE OF ANY CORROSION ALIGNED WITH THE FORD CUSTOMER SERVICE DIVISION (FCSO) PACKAGING AND SHIPPING GUIDE. CORROSION INHIBITORS OR FOREIGN MATERIALS DETRIMENTAL TO THE INSTALLATION OR FUNCTION OF THE PART MUST BE REMOVABLE BY THE INTENDED CLEANING METHOD.
- INJECTION MOLDED PARTS MUST CONFORM TO: INJECTION MOLDING MANUFACTURING STANDARD W-MMS DATED 2015-12-1.
- PLASTIC PARTS ≥ 100 g OR RUBBER PARTS ≥ 200 g SHALL HAVE THE MATERIAL CODE APPEAR ON THE PHYSICAL PART PER ISO 1043-1 AND ISO 1043-2 (REFERENCING ISO 11469, PLASTIC) AND/OR ISO 1029 (RUBBER).
- DIMENSIONING AND TOLERANCING: ALL DIMENSIONS IN MM.
 - A. ALL DIMENSIONS TO PROJECTED THEORETICAL SHARP CORNERS.
 - B. UNTOLERANCED CHAMFER DIMENSIONS ARE BASIC.
 - C. UNLESS OTHERWISE SPECIFIED, ALL FORD COMBOS ARE ±0.10.
 - D. FOR UNDIMENSIONED PART DEFINITION; SEE ASSOCIATED DATARAKED ELECTRONIC DATA.
 - E. FOR THE PURPOSE OF GEOMETRIC TOLERANCING, ALL DIMENSIONAL INFORMATION CONTAINED IN THE CAD MODEL IS BASIC (THEORETICAL).
- GENERAL TOLERANCES: UNLESS OTHERWISE SPECIFIED
 - 0-DIM-10 ± 0.25 MM
 - 10-DIM-50 ± 0.35 MM
 - 50-DIM-120 ± 0.40 MM
 - 120-DIM-300 ± 0.45 MM
 - ± 2.0 ° FOR ALL ANGULAR DIMS EXCEPT DRAFT.
- SUPPLIER SPECIFICATION MAY APPLY AT PPAP - ALL SUPPLIER SPECIFICATION SHALL BE APPROVED FOR USE BY FORD MOTOR COMPANY PRODUCT ENGINEERING AND SHALL BE PRODUCED UPON REQUEST.
- MUST CONFORM TO EMBRITTLEMENT AVOIDANCE FORD ENGINEERING MATERIAL SPECIFICATION WSS-M9943-A.
- MUST CONFORM TO CONTROL OF HEAT TREATING PROCESSES AND AUXILIARY EQUIPMENT, FORD MANUFACTURING STANDARD W-MTX.

15. MUST CONFORM TO SYNC 4 GENERATION ENGINEERING SPECIFICATION: FORD NEXT GENERATION INFOTAINMENT ENGINEERING SPEC. VSEM #: V00000494

16. ENVIRONMENTAL:
 A. MUST CONFORM TO CERP 00.0247 ENVIRONMENTAL REQUIREMENTS (NON-EMC) FOR VEHICLE ELECTRICAL AND ELECTRONICS SYSTEMS
 B. MUST COMPLY WITH EMC TEST SPECIFICATION FMC1278

17. SYNC 4 MATERIALS:
 A. MAIN CASTING: DIE CAST ALUMINUM A380 PER ASTM B85/B85M
 B. WIFI / BLUETOOTH ANTENNA COVERS: LEXAN EXL14 BLACK
 C. MAIN PCB: FR4/COPPER
 D. REAR COVER: SAE J403 1008-1010 ZINC COATED PER SAE J1562 EG 200206
 E. COVER SCREW: M3.0 x 0.5MM ZINC COATED STEEL 10.005MM MIN THICKNESS ZINC/CLEAR TRIVALENT
 F. MAIN HOUSING LABEL:
 MATERIAL: BRADY B-423 OR EQUIVALENT 0.0762 MM
 LABEL PERFORMANCE SPEC: PSA, INTERIOR WSS-M9941-A31

18. FOR ITEMS 2 AND 3: MAXIMUM ALLOWABLE REGRIND CONTENT 0% BY WEIGHT.

19. SYNC 4.0 MODULE WEIGHT SHALL BE 500G +/- 10

20. PART MUST CONFORM TO LATEST LEVEL OF USCAR-30
 SEE USCAR FOOTPRINT DRAWING 999-U-USB-201

21. CONNECTOR INFO: REFER TO DEVICE TRANSITIONAL DOCUMENT 01-MUST-146670

22. FOR CODE MODULE MANUFACTURING ASSY REQUIREMENTS, SEE: MFG-ASY DRAWING (REF: FNA-380073-DWG-01)

23. LABEL MAIN: THE PART NUMBER PRINTED ON THE LABEL WILL BE OF THE MODULE WITH SOFTWARE (MUST-146670-xxxx).

REFERENCE	FILE	DATE	BY	REVISION

OPER. NO.	UNIT	DRAWING	DATE	BY