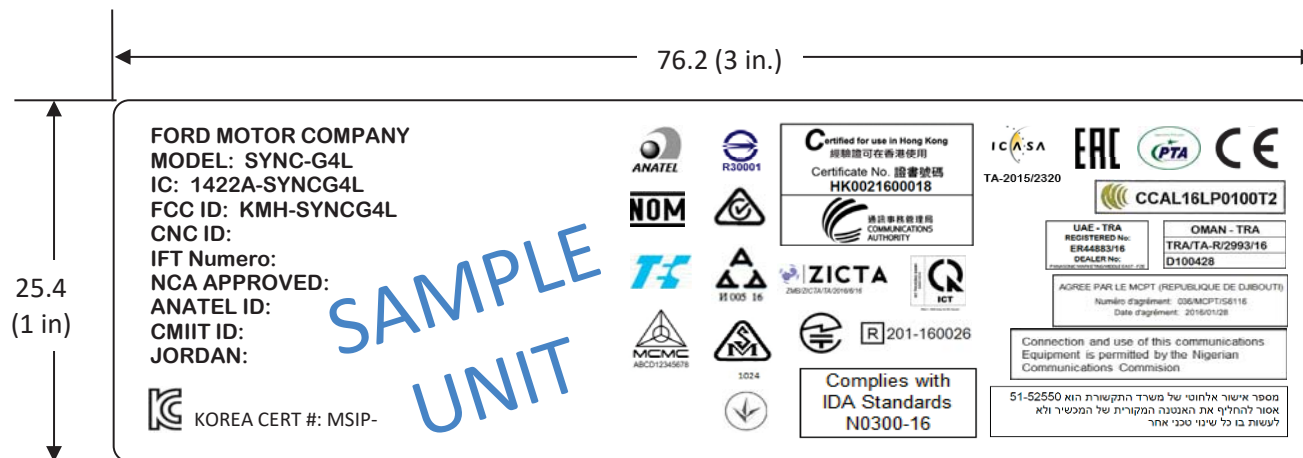




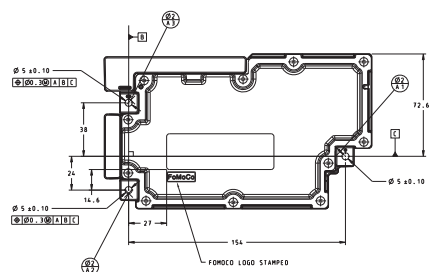
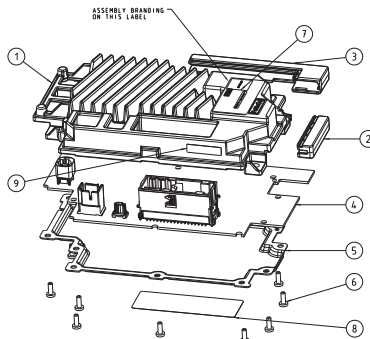
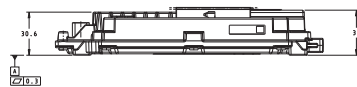
- PART AS RECEIVED AT THE FORD PLANT OR SERVICE PART PACKAGER / WAREHOUSE MUST BE FREE OF ANY CORROSION ALIGNED WITH THE FORD CUSTOMER SERVICE DIVISION (FCSD) PACKAGING AND SHIPPING GUIDE. PACKAGING AND PROTECTIVE MATERIALS MUST PRESERVE THE INTENDED FUNCTION AND APPEARANCE OF THE PART
- CHANGES TO DESIGN, COMPOSITION OR PROCESSING OF THE PART PREVIOUSLY APPROVED FOR PRODUCTION REQUIRE PRIOR APPROVAL FROM FORD MOTOR COMPANY PRODUCT ENGINEERING. REFER TO ISO/TS 16949
- FOR CURRENT RELEASE STATUS, SEE THE WERS ENGINEERING NOTICE
- FOR THE PURPOSES OF GEOMETRIC TOLERANCING, ALL DIMENSIONAL INFORMATION CONTAINED IN THE CAD MODEL IS BASIC (THEORETICAL)
- 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
- ENGINEERING APPROVAL OF PRODUCTION SAMPLES FOR EACH SUPPLIER IS REQUIRED PRIOR TO AUTHORIZATION OF INITIAL PRODUCTION.
- 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.
- SOURCES FOR MATERIAL DEFINED BY FORD MATERIAL SPECIFICATIONS SHALL BE SELECTED FROM THE FORD MOTOR COMPANY ENGINEERING MATERIAL APPROVED SOURCE LIST.
- UNIT OF MEASUREMENT: MILLIMETER (MM). ALL DIMENSIONS TO PROJECTED THEORETICAL SHARP CORNERS.
- 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
- GENERAL TOLERANCES: UNLESS OTHERWISE SPECIFIED
0<DIM<30 = +/-0.20MM
30<DIM<120 = +/-0.30MM
120<DIM<300 = +/-0.40MM
- LABEL PRINTING MUST ADHERE TO FAA02-007-A TRACEABILITY LABEL REQUIREMENTS.
(MIN TEXT SIZE, 2D BARCODE MIN PIXEL SIZE, ETC)

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	

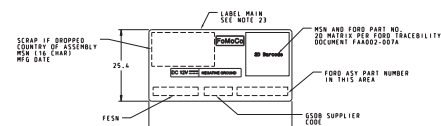
REFERENCE						N/A	
PART MUST COMPLY WITH RESTRICTED SUBSTANCE MANAGEMENT STANDARD WSS-M99P9999-A1 TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT							
DRAFTED IN ACCORDANCE WITH FORD MOTOR COMPANY ENGINEERING CAD AND DRAFTING STANDARDS VERSION 30							
CAD TYPE	CAD LOC.	CAD FILE				DTMC IS MASTER	
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							
				FORD MOTOR COMPANY			

Diagram illustrating the internal components and connectors of the HSD-1000. The components shown include:

- ANTENNA COVER
- ANTENNA COVER
- DISPLAY, HSD
- USB
- ETHERNET, M10
- VER. CONN. 16 SA-P



QTY	ITEM	SUPPLIER PART NO.	FORD PART NO.	PART NAME	MATERIAL	MATERIAL FINISH	HEAT TREATMENT
1	1	FMCN-FA380317-AB		ENCLOSURE, CASTING F.P.F.	AL30 B30		N/A
1	2	FMCN-FA387255-AB	PIA	WFF, ANT COVER	LEARN EATLTA, BLACK	NON-VISIBLE	N/A
1	3	FMCN-FA380386-AB	PIA	BT ANTENNA COVER	LEARN EATLTA, BLACK	NON-VISIBLE	N/A
1	4	FMCN-FDP-43207-102		PIA	PIA		N/A
1	5	FMCN-FDP-43207-102		COVER	SABEAS 100R-1010	ZINC COATED SP 11969 10, 200	N/A
1	6	FMCN-FA380901-AT	PIA	SCREW	STEEL/316L W-950	CLEAR TRIVALENT	HR 6 CASE HARDENED
1	7	FMCN-FA38103777-AB	PIA	LABEL, MAIN	POLYESTER, WHITE BRAND B-23		N/A
1	8	FMCN-FA3846720-AB	PIA	HF CERT LABEL	POLYESTER, WHITE BRAND B-23		N/A
1	9	FMCN-FA3846820-AB	PIA	SUPPLIED TRACKING	POLYESTER, WHITE		N/A



1. SOURCES FOR MATERIALS DEFINED BY FORD MATERIAL SPECIFICATIONS SHALL BE SELECTED FROM THE FORD MOTOR COMPANY ENGINEERING MATERIAL APPROVED SOURCE LIST.
2. OTHER THAN UNITED STATES MANUFACTURING COMPONENTS THE COUNTRY OF ORIGIN MUST BE MARKED IN ENGLISH.
3. APPROVED TO DESIGN, COMPOSITION OR PROCESSING OF THE PART PREVIOUSLY APPROVED FOR PROTECTION UNDER ENGLISH PATENT FROM FORD MOTOR COMPANY PRODUCT ENGINEERING. REFER TO 150175 16494.
4. CHANGES TO SUPPORTING DOCUMENTS SHALL BE MANAGED USING THE DOCUMENTS REQUIRED CHANGE AND APPROVAL PROCESS.
5. FOR CURRENT RELEASE STATUS, SEE THE WEBS ENGINEERING NOTICE.
6. PART MUST BE FREE OF BURRS, FLASH, AND SHARP EDGES THAT MAY AFFECT THE FUNCTION, SAFE HANDLING, AND INSTALLATION OR REMOVAL OF THE PART.
7. PART AS RECEIVED AT THE FORD PLANT OR SERVICE PART PACKAGE/WAREHOUSE SHALL BE FREE OF ANY CORROSION ALIQUANT WITH THE FORD CORROSION INHIBITOR (FCI) OR FORD PACKAGING AND SHIPPING GUIDE. (CORROSION INHIBITORS OR FORD MATERIALS DETERMINED TO BE THE INSTALLATION OR FUNCTION OF THE PART MUST BE REMOVABLE BY THE INTENDED CLEANING METHOD)
8. INJECTION MOLDED PARTS MUST CONFORM TO: INJECTION MOLDING MANUFACTURING STANDARD M-1469S DATED 2005-12-12.
9. PLASTIC PARTS ≥ 100 g OR RUBBER PARTS ≥ 200 g SHALL HAVE THE MATERIAL IDENTIFICATION MARKED ON THE PART. (FOR 150175 AND 150143-1 (REFERENCING ISO 11469, PLASTIC) AND/OR ISO 1629 (RUBBER)).
10. DIMENSIONING AND TOLERANCING. ALL DIMENSIONS IN MM.
 - A. ALL DIMENSIONS TO PROJECTED THEORETICAL SHARP CORNERS.
 - B. UNDESIGNATED CHAMFER DIMENSIONS ARE BASIC.
 - C. UNLESS OTHERWISE SPECIFIED, ALL FORD SHAPES **EN 3141**
11. FOR UNDESIGNATED CHAMFER DEFLECTIONS, SEE ASSOCIATED CHAMFERED SURFACE TOLERANCE PURPOSE OF GEOMETRIC DIMENSIONING AND TOLERANCING (GD&T) CONTAINED IN THE CAD MODEL IS BASIC (THEORETICAL).
12. GENERAL TOLERANCES: UNLESS OTHERWISE SPECIFIED
 - D-0+/-0.10 $\pm$ 0.25 MM
 - D-0+/-0.50 $\pm$ 0.38 MM
 - D-0+/-120 $\pm$ 0.40 MM
 - D-0+/-300 $\pm$ 0.45 MM
 - D-0+/-0.0 FOR ALL ANGULAR DIMS EXCEPT DRAFT.
13. 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.
14. MUST CONFORM TO ENHANCED/ILLEGAL AVOIDANCE FORD ENGINEERING WATER TIGHT SPECIFICATION PPAP-A.
15. MUST CONFORM TO CONTROL OF HEAT TREATING PROCEDURES AND AUXILIARY EQUIPMENT, FORD MANUFACTURING STANDARD M-147X.

REFERENCE		N/A	
PART MUST COMPLY WITH RESTRICTED SUBSTANCE MANAGEMENT STANDARD MS-WMP0004-101 TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT PART COMPLIES WITH ROHS COMPLIANCE WITH FOOD MACHINERY AND ANGLE PUL COMPANY (ENGINEERING CAD AND DRAFTING)			
STANDARDS VERSION		 DIMENSIONS ARE IN MILLIMETERS	
CAD TYPE	CAD LOC.	CAD FILE	DTMC
K-CAT/IAS	TC	MUST-16681-B-DWG-D1	IS SHOWN
OPER. NO.	UNIT	DRAWING	
N/A	N/A	MUST-146681-BC	
DESIGN	TITLE		
PREP	ADAPTY	ECU COR ASY MOD	
CHECKED	SPEC	SCL CONN M/MEDIA	
SCALE	DATE	DIVISION	N/A
1:1	20180913	PLANT	N/A
FORD MOTOR COMPANY			

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