

To buy, sell, rent or trade-in this product please click on the link below:  
<https://www.avionteq.com/KGB-DART-Data-Acquisition-Loader-Interface>

**AvionTEq**

[www.avionteq.com](http://www.avionteq.com)



## Quick Start Download Instructions for DART

General guidance: When a softkey is pressed and a new menu is displayed, pressing ESC will always show the previous page. If there is room to display the HOME button, it will always appear on F1.

1. Power DART by pressing the button in the upper left corner. You will see the screen's backlight illuminate for a few seconds and then go dark. Within 10 seconds the screen will show the splash page. DART will take 45 seconds to fully boot.



2. Once fully booted the home page will be displayed.
3. In the upper left corner, you will see the UTC date and time. Keep in mind your local offset and verify that the date and time are correct. If the date or time are not correct, DART needs to connect to the internet to check in.

15:33:39Z  
2022-11-08

DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED

DEMO



RECORDER  
STATUS



DOWNLOAD  
RECORDER



MONITOR DATA



ADMIN SETTINGS



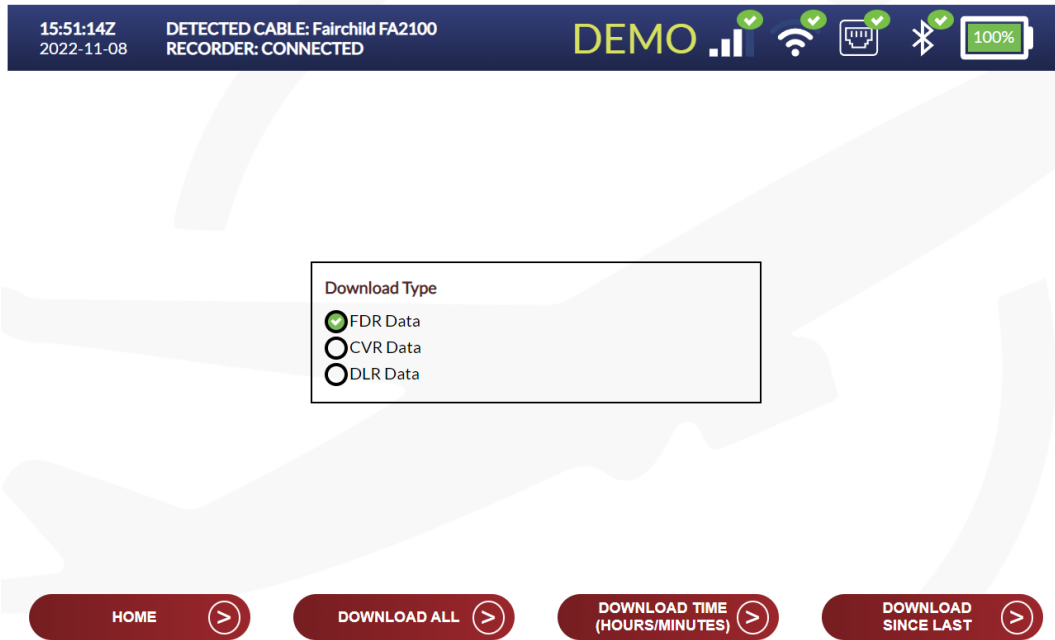
4. Connect DART to Wi-Fi.
  - a. On the home page, press F4 (Admin Settings).
  - b. Press F1 (Networks)
  - c. Press F1 (Wi-Fi)
  - d. Press F4 (Networks)
  - e. Select your local network and enter the password.
    - i. There is a “Show” button on the bottom right to verify entry.
  - f. If the password is correct, you will see the Wi-Fi icon illuminate and a green check mark, following this the IP address will be displayed.
  - g. If the Wi-Fi icon disappears or the IP address does not appear, the password was not accepted. Remove the network from the saved list by following 4.a – 4.c and then selecting saved networks. Select your network and remove it by pressing enter or the remove button.
5. Once connected to Wi-Fi, DART will update its date and time, if necessary.
6. Select the cable that connects to the recorder and plug it into either J1 or J2 as indicated by the color code.
  - a. There is an arrow on the connector that should face the front of DART.
  - b. Align this arrow and hold the top of the connector (near the cable) with your left hand. You will feel the connector slide into place.

- c. Use your right hand to twist the locking mechanism, you will feel the detent as it locks in place.
- d. The newer connectors may need pressure from the left hand to push down while the locking mechanism is twisted.



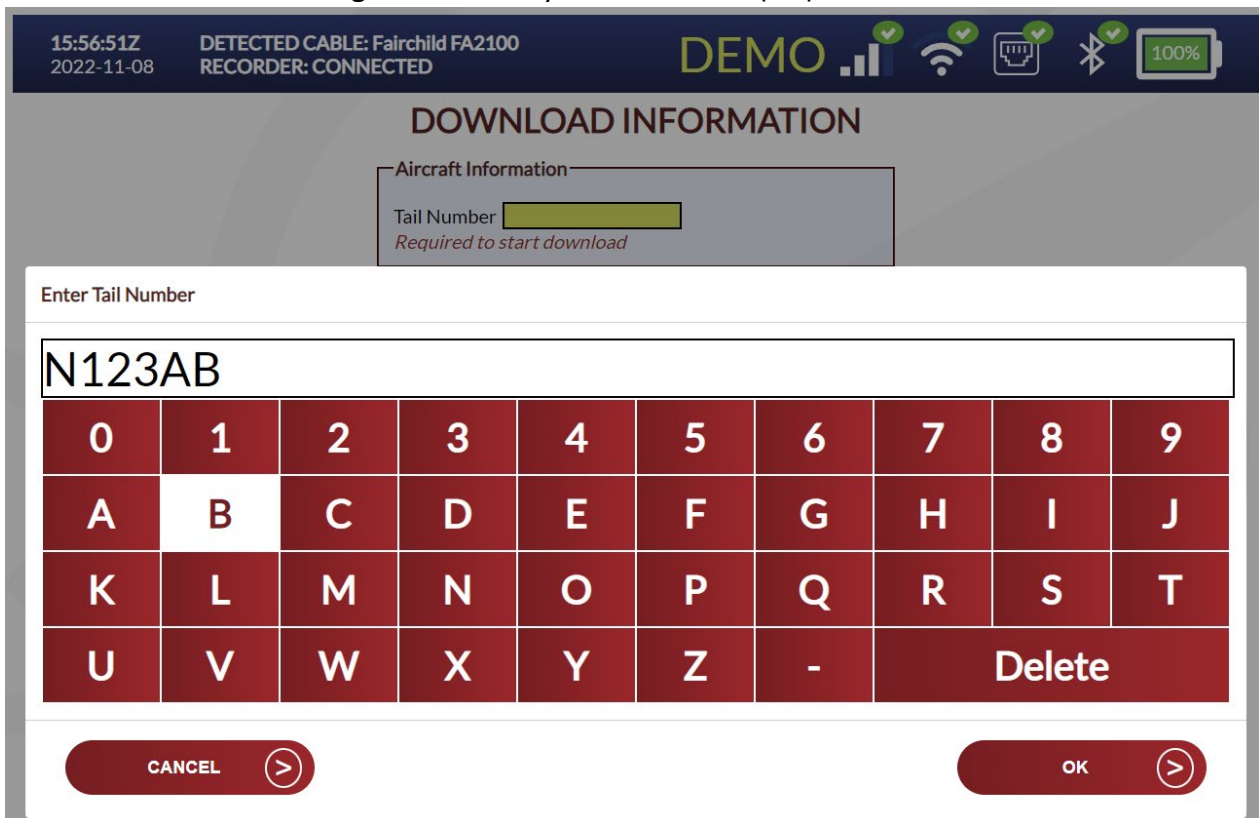
7. Once the connector is securely in place you will see the cable detected in the banner. The cable information should match the recorder type.
8. **WARNING: ALL RECORDERS SHOULD BE OFF BEFORE CONNECTING OR DISCONNECTING ANY CABLES TO THEM.**
9. Connect the other end of the cable to the recorder and power the recorder by following the maintenance procedure. Once the recorder is powered, the “Recorder: Disconnected” will be replaced with “Recorder: *type* Connected” and the function buttons F1 – F3 will change from gray to red.

10. Press **F2 Download Recorder**, and the following screen will appear:



11. Select F2, F3 or F4 to determine the Download type.

12. Enter the tail number using the arrow keys and select F4 (OK).



13. The **DOWNLOAD INFORMATION** screen will then appear. Use the F2 (Previous Field) and F3 (Next Field) to move to each section. If there are yellow highlighted sections, they will need to be updated prior to starting the download. F4 (Start Download) will be grayed out until the missing information is added.

15:58:10Z  
2022-11-08

DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED

DEMO

### DOWNLOAD INFORMATION

Aircraft Information

Tail Number: N123AB

Recorder Part Number: 2100-0000-00

Recorder Serial Number: 0000000000

Reason For Download:

- Analysis
- FOQA
- Raw Data

BACK PREVIOUS FIELD NEXT FIELD START DOWNLOAD

16:01:30Z  
2022-11-08

DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED

DEMO

### DOWNLOAD INFORMATION

Aircraft Information

Tail Number: N123AB

Recorder Part Number: 2100-2043-00

Recorder Serial Number: 0000000123

Reason For Download:

- Analysis
- FOQA
- Raw Data

BACK PREVIOUS FIELD NEXT FIELD START DOWNLOAD

14. Once the recorder part number and serial number are entered, select **F3** to advance to the **Reason For Download** options:

- Analysis**      Following the Download, KGB Aviation Solutions will contact the operator, and offer data analysis options.
- FOQA**         Following the download, KGB Aviation Solutions will not contact the operator. It will be assumed that the operator will be performing the data analysis.
- Raw Data**     The operator may desire Engineering Unit data conversion service, available through KGB Aviation Solutions.

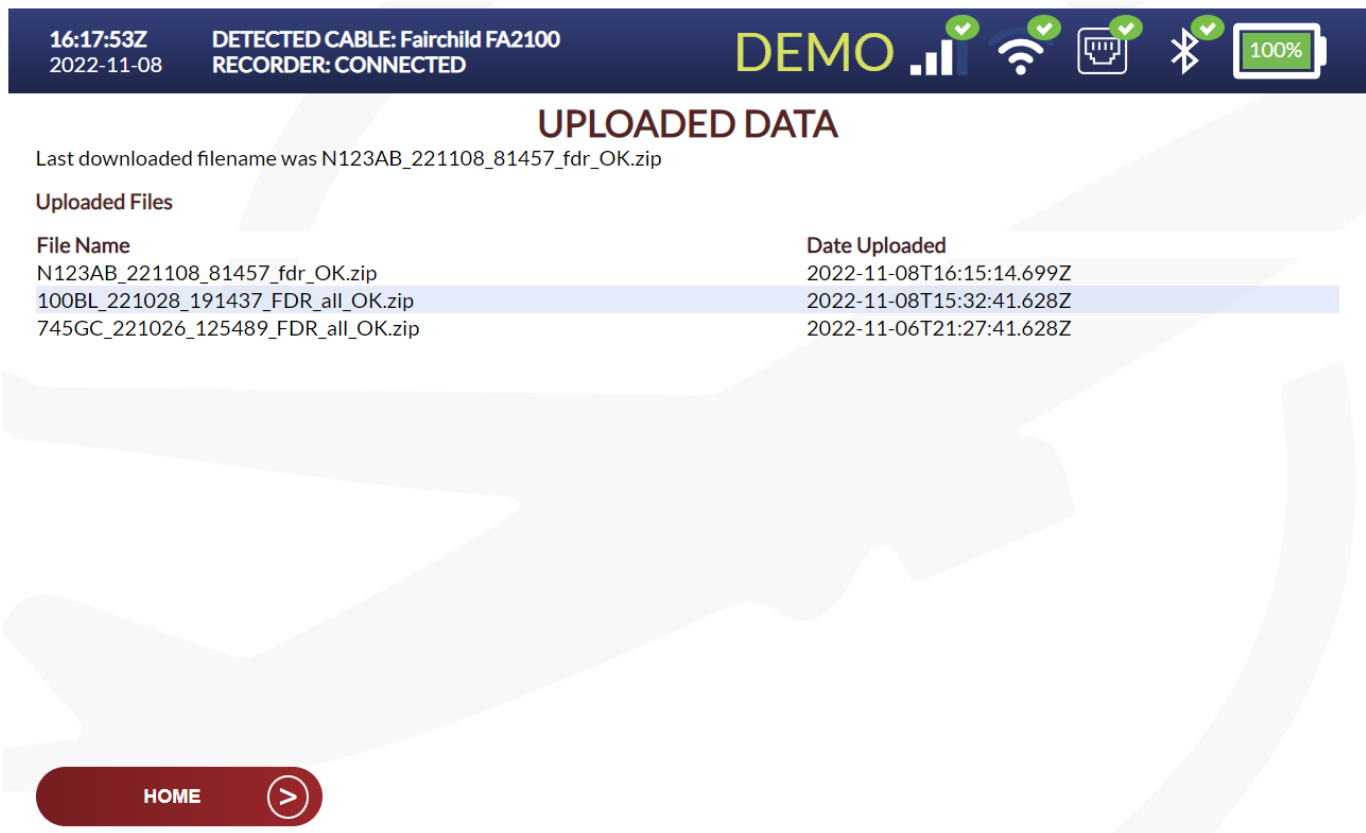
15. The download will be possible by pressing F4.

16. The progress of the download will be displayed along with the estimated time:

The screenshot displays a mobile device interface during a download process. At the top, a dark blue status bar contains the following information: the time '16:15:04Z' and date '2022-11-08', the text 'DETECTED CABLE: Fairchild FA2100 RECORDER: CONNECTED', the word 'DEMO' in yellow, and icons for cellular signal, Wi-Fi, Ethernet, Bluetooth, and a 100% battery level. The main content area shows a 'Download All' progress bar. The bar is a dark red color and is filled to the 57% mark. Below the bar, the text '37055 of 64995' and 'Estimated time remaining: 00:04' is displayed. At the bottom left, there is a red button with the word 'CANCEL' and a right-pointing arrow icon.

Once the download is complete, the files will be compressed and automatically uploaded to the AWS portal.

- a. The upload page will be displayed and depending on the speed of the Wi-Fi, the upload progress will be shown.
- b. Once the data is uploaded to AWS, the file name will appear in the UPLOADED FILES group:



17. DART does not need to be connected to the recorder for the data to be uploaded to AWS. As long as the data download was completed (message will be displayed confirming that), DART can be removed from the recorder (**Recorder must be powered down before removing cables from the recorder or the DART**).
18. Power down the recorder.
19. The banner on DART will show that the recorder is disconnected, and this will indicate that the power has been removed from the recorder and it is safe to disconnect the cable from the recorder.
20. Disconnect the cable from DART.
21. Hold the top of the connector with your left hand and use your right hand to twist counterclockwise to unlock the mechanism.
22. Once you feel the connector's lock disengage pull the connector off with your left hand. Your right hand can assist by continuing to twist and lift but the main force should be from your left hand after the lock is disengaged.

**To monitor live data with DART, follow steps 1 through 9 above to connect to the recorder and prepare DART to begin monitoring live data.**

1. At the DART Home screen, select F3 for **MONITOR DATA**. Note that whenever live data is being monitored, the powered recorder is overwriting the oldest data in memory.

At the DATA DEFINITION screen, the operator will then choose the desired DATA FORMAT of raw values ( decimal, octal, binary, bcd, hex), or data converted into Engineering Unit values.

18:01:23Z  
2022-07-26

DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED

100%

### DATA DEFINITION

**DATA FORMAT**  
 Decimal  Octal  Binary  BCD  Hex  Engineering Units

**DATA RATE**  
 64  128  256  512  1024

**DISPLAY MODE**  
 Normal  Word Wrap Full Screen  Word Wrap ½ Screen  Word Wrap ¼ Screen

**SYNC TYPE**  
 Teledyne  Hamilton

**SUPER FRAME**  
 YES  NO

WORD	SUBFRAME	MSB	LSB
00	1	12	9

HOME > NEXT >

If Engineering Unit values are chosen under DATA FORMAT, skip ahead to **MONITOR DATA in Engineering Units**

**MONITOR DATA in Raw values (Decimal, Octal, Binary, BCD, and Hex).**

1. The operator will then select the applicable DATA RATE in Words per Second.
2. Under DISPLAY MODE, the operator may choose from the following:



**Normal.** This mode enables the operator to isolate the display to specific Word, Subframe, Bit, and Superframe locations in the data stream, as shown below:

16:49:49Z  
2022-11-08
DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED
DEMO

WORD	SUBFRAME	MSB	LSB	SUPER FRAME
0 2	All	1 2	0 3	
0 3	All	1 2	0 1	--
0 4	All	1 2	0 1	--
0 5	All	1 2	0 1	--
0 6	All	1 2	0 1	--
0 7	All	1 2	0 1	--
0 8	All	1 2	0 1	--
0 9	All	1 2	0 1	--
0 0	All	1 2	0 1	--
0 0	All	1 2	0 1	--
0 0	All	1 2	0 1	--
0 0	All	1 2	0 1	--

CLEAR MODE
>

PREVIOUS WORD  
DEFINITION
>

NEXT WORD  
DEFINITION
>

START  
MONITORING
>

The example below illustrates a selection of data word numbers 1 - 9, displayed in Decimal Format:

Press ESC to bring back menu

DEMO

SF	SYNC	WORD 2 Bits 12:3	WORD 3 Bits 12:1	WORD 4 Bits 12:1	WORD 5 Bits 12:1	WORD 6 Bits 12:1	WORD 7 Bits 12:1	WORD 8 Bits 12:1	WORD 9 Bits 12:1
3	5.7	2566	4085	3985	672	2450	4079	388	1544
4	2.8	2441	812	3564	1934	552	283	2152	2845
1	2.4	1704	569	234	2610	3160	56	1368	1082
2	8.2	220	539	3302	3116	128	3987	3304	2518
3	8.5	2801	1951	956	3869	3243	89	3093	3981
4	6.8	2931	3679	1252	3578	1110	1438	1395	810
1	7.8	295	33	2027	2319	1755	2860	2997	889
2	6	3316	1752	2979	1957	2184	2445	2913	201
3	3	1630	1083	2687	3270	775	1075	1175	3123
4	3.3	3195	1109	2358	2898	2913	585	451	1373
1	5.4	1393	1721	2823	964	3811	1748	4089	1848
2	6.5	1927	3129	1579	87	2649	3152	515	3652
3	6.6	3743	3917	318	1857	3919	1181	1428	3134
4	1.5	3088	3083	3292	2304	42	160	366	2521
1	0.2	1037	1908	2079	2270	2616	503	2361	4026
2	9.2	2199	1823	1049	1567	1003	3849	1727	3320
3	5.7	941	3825	825	3412	2928	3877	2987	887
4	1.4	1075	2169	644	1643	2959	2182	83	2443
1	2.8	3074	639	2826	1184	2261	3188	3703	125
2	7.2	3389	1912	3695	2110	151	3665	3104	946
3	8.6	97	2776	2941	585	2997	184	2032	2087
4	6.6	3575	3281	3395	1713	558	2317	3936	557
1	8.5	1423	1178	2706	1143	1230	3390	3614	579
2	3.4	826	332	3402	2258	229	777	1565	1205
3	3.3	3864	1419	1127	69	3338	829	2386	2506
4	4	2252	14	3772	1886	1341	3043	3172	3758

**Word Wrap.** The Word Wrap Display Mode options provides the operator with all of the words in the data frame.

**NOTE: Word Wrap** is offered for displaying Raw values only, and is not available when displaying Engineering Unit values.

18:01:23Z  
2022-07-26

DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED

100%

## DATA DEFINITION

**DATA FORMAT**

Decimal  Octal  Binary  BCD  Hex  Engineering Units

**DATA RATE**

64  128  256  512  1024

**DISPLAY MODE**

Normal  Word Wrap Full Screen  Word Wrap ½ Screen  Word Wrap ¼ Screen

**SYNC TYPE**

Teledyne  Hamilton

**SUPER FRAME**

YES  NO

WORD	SUBFRAME	MSB	LSB
0 0	1	1 2	9

HOME NEXT

**Word Wrap Full Screen.** This Display Mode presents the operator with a display of raw values for all words in the data stream, in 10-word location increments.

Press ESC to bring back menu											
SF	SYNC	WORD 1	WORD 2	WORD 3	WORD 4	WORD 5	WORD 6	WORD 7	WORD 8	WORD 9	WORD 10
1	1107	247	601	602	603	604	605	606	607	608	609
2	2670	5b8	641	642	643	644	645	646	647	648	649
3	5107	a47	681	682	683	684	685	686	687	688	689
4	6670	db8	6c1	6c2	6c3	6c4	6c5	6c6	6c7	6c8	6c9
1	1107	247	701	702	703	704	705	706	707	708	709
2	2670	5b8	741	742	743	744	745	746	747	748	749
3	5107	a47	781	782	783	784	785	786	787	788	789
4	6670	db8	7c1	7c2	7c3	7c4	7c5	7c6	7c7	7c8	7c9
1	1107	247	801	802	803	804	805	806	807	808	809
2	2670	5b8	841	842	843	844	845	846	847	848	849
3	5107	a47	881	882	883	884	885	886	887	888	889
4	6670	db8	8c1	8c2	8c3	8c4	8c5	8c6	8c7	8c8	8c9
1	1107	247	901	902	903	904	905	906	907	908	909
2	2670	5b8	941	942	943	944	945	946	947	948	949
3	5107	a47	981	982	983	984	985	986	987	988	989
4	6670	db8	9c1	9c2	9c3	9c4	9c5	9c6	9c7	9c8	9c9
1	1107	247	a01	a02	a03	a04	a05	a06	a07	a08	a09
2	2670	5b8	a41	a42	a43	a44	a45	a46	a47	a48	a49
3	5107	a47	a81	a82	a83	a84	a85	a86	a87	a88	a89
4	6670	db8	ac1	ac2	ac3	ac4	ac5	ac6	ac7	ac8	ac9
1	1107	247	b01	b02	b03	b04	b05	b06	b07	b08	b09
2	2670	5b8	b41	b42	b43	b44	b45	b46	b47	b48	b49
3	5107	a47	b81	b82	b83	b84	b85	b86	b87	b88	b89
4	6670	db8	bc1	bc2	bc3	bc4	bc5	bc6	bc7	bc8	bc9
1	1107	247	c01	c02	c03	c04	c05	c06	c07	c08	c09
2	2670	5b8	c41	c42	c43	c44	c45	c46	c47	c48	c49

**Word Wrap 1/2 Screen.** This Display Mode presents the operator with two screen sections of raw values for all words in the data stream, in 20-word location increments.






Press ESC to bring back menu											
SF	SYNC	WORD 1	WORD 2	WORD 3	WORD 4	WORD 5	WORD 6	WORD 7	WORD 8	WORD 9	WORD 10
4	3512	db8	6c1	6c2	6c3	6c4	6c5	6c6	6c7	6c8	6c9
1	0583	247	701	702	703	704	705	706	707	708	709
2	1464	5b8	741	742	743	744	745	746	747	748	749
3	2631	a47	781	782	783	784	785	786	787	788	789
4	3512	db8	7c1	7c2	7c3	7c4	7c5	7c6	7c7	7c8	7c9
1	0583	247	801	802	803	804	805	806	807	808	809
2	1464	5b8	841	842	843	844	845	846	847	848	849
3	2631	a47	881	882	883	884	885	886	887	888	889
4	3512	db8	8c1	8c2	8c3	8c4	8c5	8c6	8c7	8c8	8c9
1	0583	247	901	902	903	904	905	906	907	908	909
2	1464	5b8	941	942	943	944	945	946	947	948	949
3	2631	a47	981	982	983	984	985	986	987	988	989

SF	SYNC	WORD 11	WORD 12	WORD 13	WORD 14	WORD 15	WORD 16	WORD 17	WORD 18	WORD 19	WORD 20
4	3512	6ca	6cb	6cc	6cd	6ce	6cf	6d0	6d1	6d2	6d3
1	0583	70a	70b	70c	70d	70e	70f	710	711	712	713
2	1464	74a	74b	74c	74d	74e	74f	750	751	752	753
3	2631	78a	78b	78c	78d	78e	78f	790	791	792	793
4	3512	7ca	7cb	7cc	7cd	7ce	7cf	7d0	7d1	7d2	7d3
1	0583	80a	80b	80c	80d	80e	80f	810	811	812	813
2	1464	84a	84b	84c	84d	84e	84f	850	851	852	853
3	2631	88a	88b	88c	88d	88e	88f	890	891	892	893
4	3512	8ca	8cb	8cc	8cd	8ce	8cf	8d0	8d1	8d2	8d3
1	0583	90a	90b	90c	90d	90e	90f	910	911	912	913
2	1464	94a	94b	94c	94d	94e	94f	950	951	952	953
3	2631	98a	98b	98c	98d	98e	98f	990	991	992	993

**Word Wrap 1/3 Screen.** This Display Mode presents the operator with two screen sections of raw values for all words in the data stream, in 30-word location increments

Press ESC to bring back menu

DEMO     

SF	SYNC	WORD 1	WORD 2	WORD 3	WORD 4	WORD 5	WORD 6	WORD 7	WORD 8	WORD 9	WORD 10
3	7.2	1560	3005	50	2563	3406	180	90	1766	3814	548
4	1.3	3883	1713	1670	1021	2204	3447	1320	1100	3125	1869
1	5.7	725	3174	57	389	157	3280	3544	3706	3900	2365
2	2.1	3380	2459	2634	3030	226	1227	1769	1722	504	386
3	4.9	2538	1551	2169	392	2333	1879	2423	888	3861	1200
4	7.1	3258	1180	3973	3180	656	781	131	892	2131	558
1	9.4	2812	277	2415	1114	3005	359	549	3433	1074	444
2	2.2	2068	1272	4095	3966	3532	1181	2812	389	183	1833

SF	SYNC	WORD 11	WORD 12	WORD 13	WORD 14	WORD 15	WORD 16	WORD 17	WORD 18	WORD 19	WORD 20
3	7.2	3545	2648	522	3819	3693	3618	3748	524	2161	2605
4	1.3	2113	1035	3952	557	2005	2421	4011	1631	4050	1922
1	5.7	3649	3592	1307	314	2128	636	2666	3658	3218	848
2	2.1	1355	2939	859	2811	757	2874	2250	1615	2332	368
3	4.9	2018	1300	142	1267	3524	2448	1422	1605	3637	2250
4	7.1	3448	3229	2626	2148	363	3601	2470	3207	120	2544
1	9.4	3179	537	3181	316	552	4022	3723	2751	3088	1177
2	2.2	1241	832	266	11	3207	2690	849	3839	1513	564






  

SF	SYNC	WORD 21	WORD 22	WORD 23	WORD 24	WORD 25	WORD 26	WORD 27	WORD 28	WORD 29	WORD 30
3	7.2	229	1738	4039	1762	1308	3284	1042	2834	1721	227
4	1.3	3704	3332	1127	1319	3888	719	3272	2887	376	2567
1	5.7	3408	702	3658	2040	697	1210	1658	765	3737	1518
2	2.1	4080	3622	1124	1277	2076	299	2626	1029	3910	1154
3	4.9	1895	3357	2304	220	743	1662	2281	3615	1430	2772
4	7.1	2011	1938	2314	2487	1486	600	2803	2867	1589	1160
1	9.4	652	3611	530	3027	3734	502	1076	3853	2404	1140
2	2.2	285	2500	980	237	3790	2035	2503	1527	3274	1012

A useful one-button feature within **Word Wrap** enables the operator with fast access movement throughout the data frame display. Pressing **F2 Previous Page** or **F3 Next Page** will jump to the next group of raw data words for display. For example – If monitoring raw data in **Word Wrap 1/3 Screen** words 1 through 30 will be displayed, simply pressing **F3 Next Page** will immediately present the operator with words 31-60. Pressing F3 again will present words 61-90, and so on.

17:04:59Z  
2022-11-08

DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED

DEMO     

SF	SYNC	WORD 1	WORD 2	WORD 3	WORD 4	WORD 5	WORD 6	WORD 7	WORD 8	WORD 9	WORD 10
1	6.4	3483	1068	3499	3687	1480	2562	1254	2944	1424	3462
2	2.8	3930	2699	2787	4063	3701	890	2055	260	2937	4010
3	6.5	683	1205	340	842	3549	3015	1167	438	2199	2792
4	0.5	2039	2203	1662	3322	418	1973	207	2432	63	3966
1	8.7	3894	3481	64	2902	2539	2377	1681	3846	1123	1672
2	4.1	4025	943	3424	2020	2496	3638	726	220	3223	1954





  

SF	SYNC	WORD 11	WORD 12	WORD 13	WORD 14	WORD 15	WORD 16	WORD 17	WORD 18	WORD 19	WORD 20
1	6.4	3165	2290	1236	146	2076	7	459	3529	4055	2122
2	2.8	607	1217	2047	2215	398	1066	300	1719	3633	3909
3	6.5	3194	3860	2053	1413	1747	4087	2527	2282	360	192
4	0.5	2320	2552	455	666	3908	449	3783	638	1067	2714
1	8.7	2227	3182	2408	1534	1375	1741	3083	2841	864	967
2	4.1	3696	1998	3942	903	3327	1024	3293	3333	1676	2053

SF	SYNC	WORD 21	WORD 22	WORD 23	WORD 24	WORD 25	WORD 26	WORD 27	WORD 28	WORD 29	WORD 30
1	6.4	2031	3542	3995	1748	301	3532	2122	2893	4034	1429
2	2.8	2471	4006	1075	3354	1116	3649	909	2636	3070	994
3	6.5	2916	3757	1807	3655	2678	3569	1065	2001	439	2117
4	0.5	2328	102	2245	3105	3622	2035	475	3441	200	3130
1	8.7	2609	1204	3044	2940	1478	1325	1529	2819	2072	3480
2	4.1	2781	3135	554	702	1817	818	3669	2972	34	387

HOME     PREVIOUS PAGE     NEXT PAGE     DATA RATE DEFINITION 

## MONITOR DATA in Engineering Units

When the DATA DEFINITION screen appears, the DATA FORMAT field will be active. Use the Right Arrow to highlight Engineering Units.

22:17:02Z  
2022-10-18
DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED

### DATA DEFINITION

**DATA FORMAT**

Decimal
  Octal
  Binary
  BCD
  Hex
  **Engineering Units**

**DATA RATE**

64
  128
  256
  512
  1024

**DISPLAY MODE**

Normal
  Word Wrap Full Screen
  Word Wrap ½ Screen
  Word Wrap ¼ Screen

**SYNC TYPE**

Teledyne
  Hamilton

**SUPER FRAME**

YES
  NO

WORD	SUBFRAME	MSB	LSB
0 0	1	1 2	9

HOME 
SELECT AIRCRAFT 
SELECT PARAM GROUP 
START MONITORING

By pressing F2, SELECT AIRCRAFT, a new screen will appear which displays the multiple aircraft manufacturers. The operator uses the Left, Right, Up and Down arrows to highlight the desired manufacturer. In this example, a Bombardier aircraft has been selected. Press F4 for NEXT.

22:19:54Z  
2022-10-18
DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED

### SELECT AIRCRAFT MANUFACTURER

Beechcraft	de Havilland	Gulfstream	Honda Jet
Bombardier	Embraer		

HOME 
NEXT

6. In this example, the Bombardier CL300 aircraft database has been chosen. Press F4, NEXT, to choose from the multiple groups of data parameters.

22:28:07Z  
2022-10-18
DETECTED CABLE: Fairchild FA2100  
RECORDER: CONNECTED

### SELECT BOMBARDIER AIRCRAFT DATABASE

CL-604+128+RAUCDB+V55+ (Dedicated+Inputs) (3)	CL300 256 RAUCDDB V 2.0 (Dedicated parameters)	CL300_256_RAUCDB_V1_KGB	CL605+512+WPS+RAUDB+V2 0+Dedicated+Parameters (7)
CL-604+64+RAUCDB+V50+ (Dedicated+Inputs) (3)	CL300 512 RAUCDDB V 1.0 20(Dedicated 20parameters)	CL605_512_WPSDB_V1_2	LearJet_36A
CL- 605+128+RAUCDB+V63+Dedi- cated+Parameters (3)			

SELECT AIRCRAFT  
MFG
>

NEXT
>

7. Use the arrow buttons at the SELECT PARAMETER GROUP screen:



### SELECT PARAMETER GROUP

Manufacturer: Bombardier  
 Database: CL300 256 RAUDCDB V 2.0 (Dedicated parameters)  
 Group File: CL300 256 RAUDCDB V 2.0 (Dedicated parameters)

Group 1 - 01 Time	<b>Group 12 - 12 Control Column</b>	Group 29 - 30 Master Warning	Group 80 - 83 Roll Trim Input Pos
Group 5 - 05 Normal Accel	Group 13 - 13 Control Wheel	Group 67 - 68 Brake Pressure	Group 81 - 84 Yaw Trim Input Pos
Group 8 - 08 Radio Transmission	Group 14 - 14 Rudder Pedal Pos	Group 68 - 69 Brake Pedal App	Group 84 - 88 Input Forces
Group 11 - 11 Long Accel	Group 18 - 18 Lateral Accel	Group 79 - 82 Pitch Trim Input Pos	Group 85 - Extra Parameters

ALTERNATE GROUP FILE 


START MONITORING 

- In this example, the Brake Pressure group of parameters has been selected for displaying. Press F4 to START MONITORING the data. DART will display a Warning that by Monitoring live data, old data will begin to be overwritten. Also, DART will request the operator to enter the aircraft Tail Number.

Manufacturer: Bombardier Database: CL300 256 RAUDCDB V 2.0 (Dedicated parameters) Group File: CL300 256 RAUDCDB V 2.0 (Dedicated parameters) Group: Group 67 - 68 Brake Pressure

SF	Brk Pres App-LIB Psi	Brk Pres App-LOB Psi	Brk Pres App-RIB psi	Brk Pres App-ROB psi
3	1538.0	1602.0	1666.0	1730.0
4	1794.0	1858.0	1922.0	1986.0
1	2050.0	2114.0	2178.0	2242.0
2	2306.0	2370.0	2434.0	2498.0
3	2562.0	2626.0	2690.0	2754.0
4	2818.0	2882.0	2946.0	3010.0
1	3074.0	3138.0	3202.0	3266.0
2	3330.0	3394.0	3458.0	3522.0
3	3586.0	3650.0	3714.0	3778.0
4	3842.0	3906.0	3970.0	4034.0
1	2.0	66.0	130.0	194.0
2	258.0	322.0	386.0	450.0
3	514.0	578.0	642.0	706.0
4	770.0	834.0	898.0	962.0
1	1026.0	1090.0	1154.0	1218.0
2	1282.0	1346.0	1410.0	1474.0
3	1538.0	1602.0	1666.0	1730.0
4	1794.0	1858.0	1922.0	1986.0

EDIT/SELECT GROUP 

PREVIOUS GROUP 

NEXT GROUP 

PAUSE/EXIT 

9. The DART provides the operator with additional features which can be quickly activated while live data is scrolling:

**PREVIOUS GROUP** will change the display to present the previous Group of parameters held in the SELECT PARAMETER GROUP screen.

**NEXT GROUP** will change the display to present the next Group of parameters held in the SELECT PARAMETER GROUP screen.

**PAUSE/EXIT** will freeze the scrolling of parameters. The operator may then press **RESUME SCROLL** to continue.

10. **EDIT/SELECT GROUP** will launch a screen of new features.

**BACK** returns the operator to the previous screen

**ADD PARAMETERS** enables the operator to include another parameter to the present Group of being displayed. Using the arrow buttons, a parameter may be chosen from the screen, and then added to the display by pressing ENTER. The scrolling of parameters will then resume.

**DELETE PARAMETERS** enables the operator to remove any parameter from the present Group being displayed. Using the arrow buttons, a parameter may be chosen from the screen, and then deleted from the display by pressing ENTER. The scrolling of parameters will then resume.



**SELECT GROUP** enables the operator to change the display to a different Group of parameters. Using the arrow buttons, a parameter Group may be chosen from the screen, and then the scrolling of data will resume after pressing F4, **START MONITORING**.

## **Section 4. Power down the recorder and disconnect**

Power down the recorder.

The banner on DART will show that the recorder is disconnected, and this will indicate that the power has been removed from the recorder and it is now safe to disconnect the cable from the recorder.

Disconnect the cable from DART.

To power off DART, press the power button in the top left corner of the display panel. After pressing the power button, DART will display a prompt to confirm user-directed power-off. To continue powering down, press F4 for "CONFIRM". To cancel powering down, press F1 for "CANCEL".

Please note there are some scenarios where DART will not allow/display the power down prompt, even if the power button is pressed. These scenarios include --

- A download is in progress
- A live data monitoring operation is in progress
- A DART update is being installed

In the unlikely event that DART becomes unresponsive or does not power down as expected, the power button can be held down for 10 seconds to force the unit to power off.