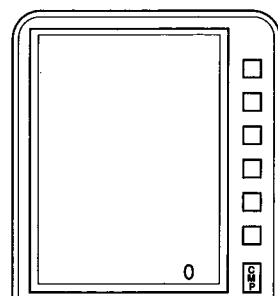
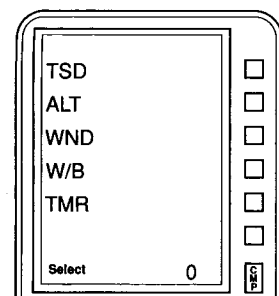


The purpose of this Guide is to assist you in using the TechStar immediately with a minimum amount of preliminary study. For more detailed information, refer to the *TechStar Flight Computer Manual*. Your TechStar Computer is easy to operate because prompt screens show you what values must be entered to solve a particular problem.

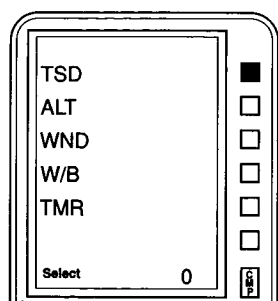
BASIC OPERATION



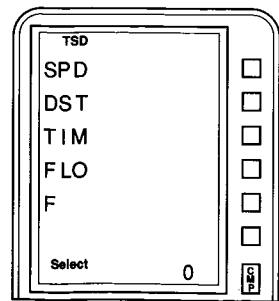
STEP 1: Press the **On/Off** key once to turn the computer ON. A zero should appear in the bottom line of the display which is called the "scratch pad." If "ERROR" should appear in the scratch pad, press **Clr** and repeat the step.



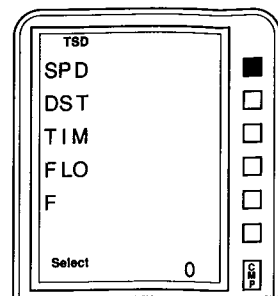
STEP 2: Press the **Mode** key to access the first menu which lists the five modes of operation. Notice the "Select" prompt to the left of the scratch pad is asking you to access the desired mode.



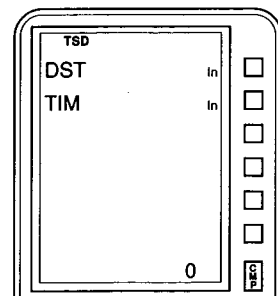
STEP 3: For this example, let's work a time, speed, distance problem. Press the key to the right of the TSD line to select the time-speed-distance mode.



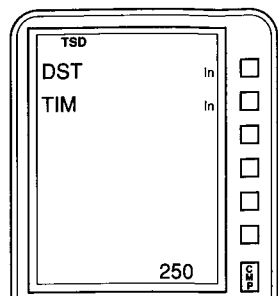
This is the TSD menu screen. Notice the "Select" prompt to the left of the scratch pad is asking you to choose the value you want to compute.



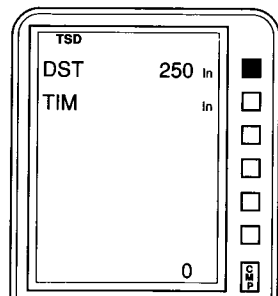
STEP 4: Lets assume you want to solve for speed (SPD). Begin by pressing the top parameter line key to the right of SPD.



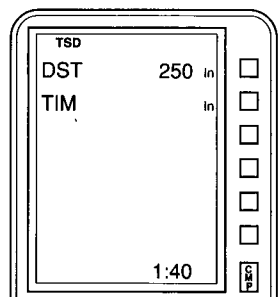
This is the TSD prompt screen showing that distance (DST) and time (TIM) are needed to solve for speed.



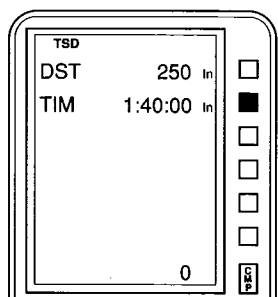
STEP 5: Assume the distance is 250 n.m. and use the keyboard to enter "250" in the scratch pad.



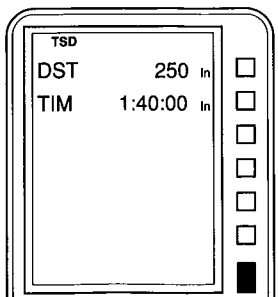
STEP 6: Transfer the value from the scratch pad to the DST parameter line by pressing the top key.



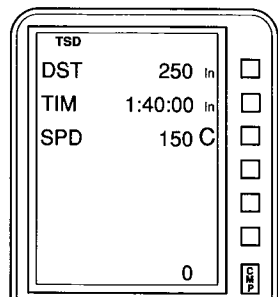
STEP 7: Assume the time is 1 hour 40 minutes, so enter 1:40 in the scratch pad by pressing **1**, **:**, **4**, and **0**.



STEP 8: Transfer the value in the scratch pad to the TIM parameter line by pressing the second key from the top.



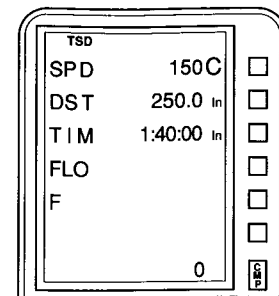
STEP 9: Once the information is entered, press the **CMP** key.



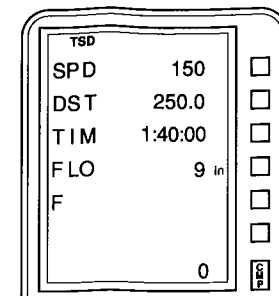
In this example, the speed is 150 knots.

EXTENDED OUTPUT SCREEN

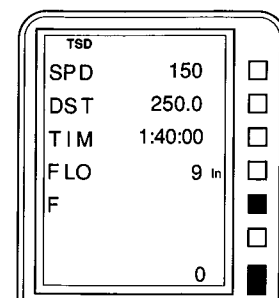
To access the extended output screen press the **CMP** key a second time. From this screen you can solve for additional values such as fuel flow and fuel required.



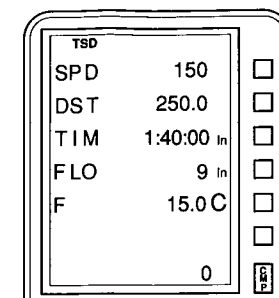
Once in the extended output screen, you can solve for either fuel flow (FLO) or fuel required (F).



STEP 1: To solve for fuel required, enter 9 g.p.h. in the scratch pad and transfer it to the FLO parameter line.



STEP 2: Now, press the **CMP** key followed by the parameter line key for F.

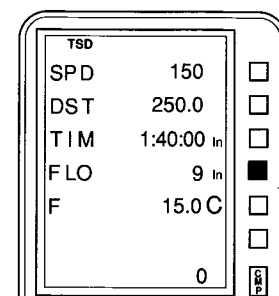


The fuel required to make this flight is 15.0 gallons.

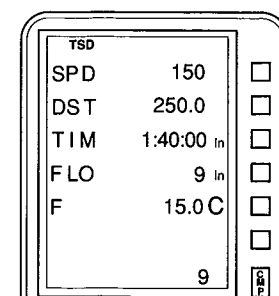
The purpose of the extended output screens is to allow you to experiment with different values and compute results directly. However, the required variables must be entered first. For example, to solve for fuel required, both fuel flow and time must be input. To solve for fuel flow, time and total fuel must be input. In addition, after pressing the **CMP** key you must always press the parameter line key for the value you are solving. Since extended output screen operations do not use prompt screens, you must tell the computer what you wish to compute.

MEMORY REGISTERS

TechStar provides 6 user memory registers for storage and retrieval of values. To transfer a value to a memory register you must first move it to the scratch pad. To do this, press the **Rcl** key followed by the parameter line key of the value to be saved.

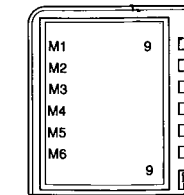
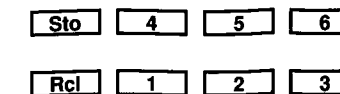


STEP 1: In this example, press the **Rcl** key followed by the FLO parameter line key.



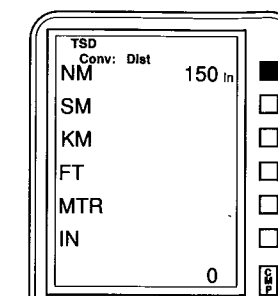
STEP 2: Next, press the **Sto** key followed by a numeric key (1 through 6).

This value is now stored in one of six memory registers and can be recalled at anytime by pressing the **Rcl** key followed by the corresponding numeric key (1 through 6). This action causes the value to appear in the scratch pad. If you have stored several values in memory and wish to review them, press the **Rcl** key twice within one second to access the entire memory screen.

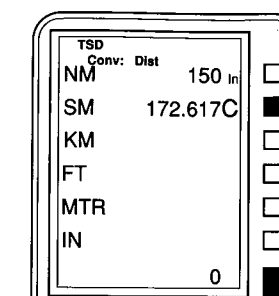


CONVERSIONS

Your TechStar is also designed so you can access multiple conversion functions at any point during an operation. You can convert most commonly used values for distance, volume, weight, or barometric pressure and temperature. Simply press the **Dist**, **Vol**, **Wt**, or **Wx** key, as appropriate, for the type of conversion you desire. Assume you need to convert 150 nautical miles to statute miles.

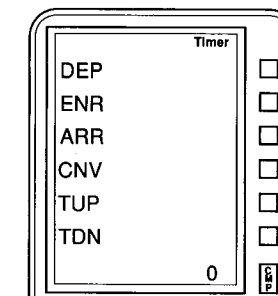


STEP 1: Press the **Dist** conversion key, enter 150 in the scratch pad, and transfer it to the nautical mile (NM) parameter line at the top.

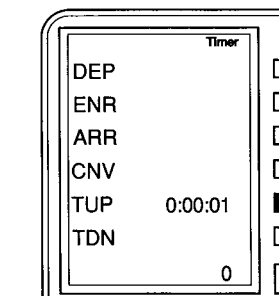


STEP 2: Press the **CMP** key followed by the statute mile (SM) line parameter key. The answer is 172.617 statute miles.

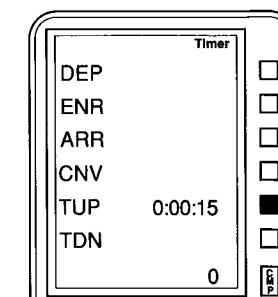
TIMER



To access the timer, press **Mode** followed by the parameter line key for TMR and you will access the screen shown above.

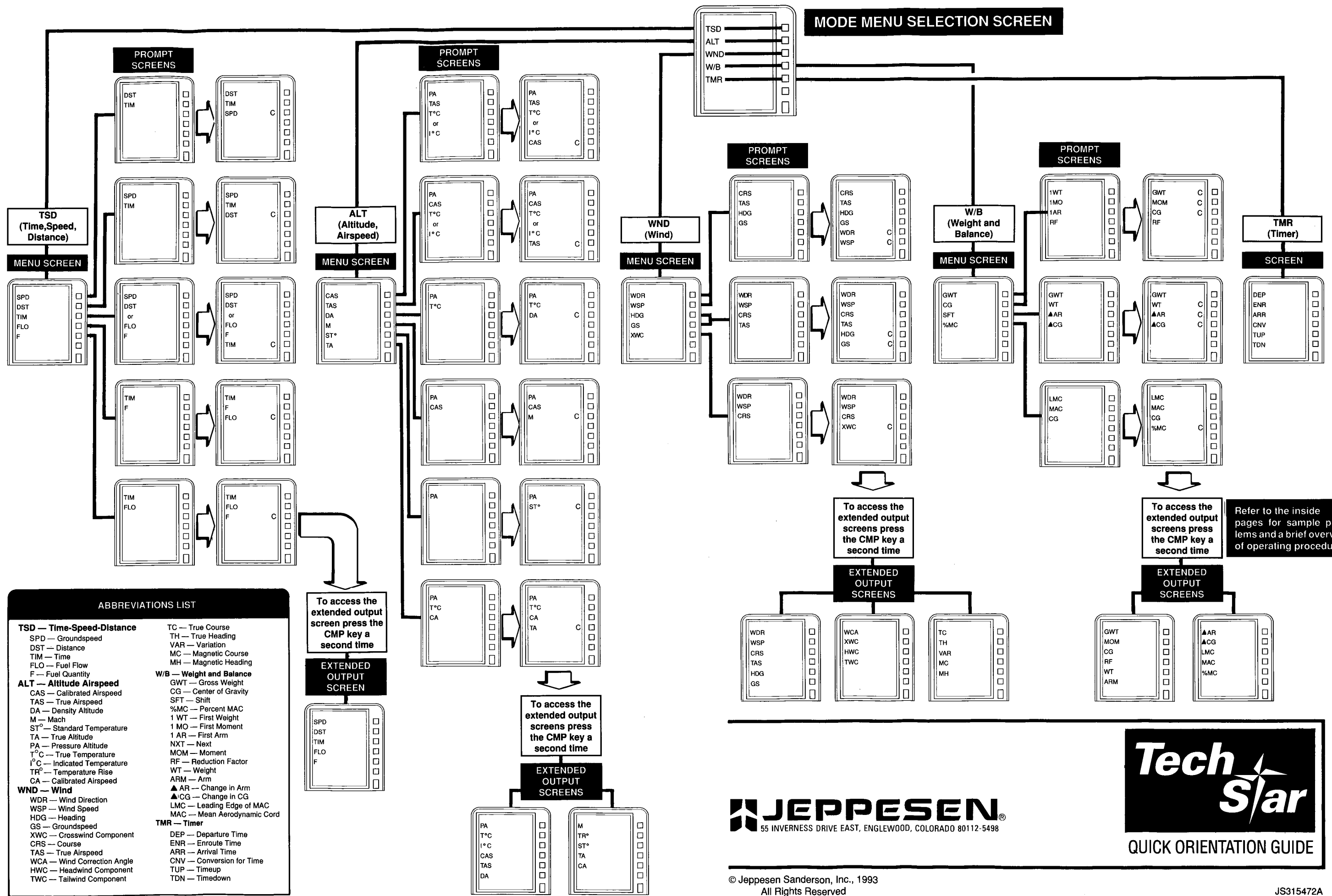


STEP 1: To start either the time-up (TUP) or time-down (TDN) counter from zero, press the desired parameter line key twice. The first press transfers the value in the scratch pad to that line; the second press starts the timer.



STEP 2: To stop the timer, press the line parameter key a third time. For more information on Timer or other mode operations, refer to your *TechStar Flight Computer Manual*.

Refer to the diagrams to see the various screens used in each mode of operation.



ABBREVIATIONS LIST

TSD — Time-Speed-Distance	TC — True Course
SPD — Groundspeed	TH — True Heading
DST — Distance	VAR — Variation
TIM — Time	MC — Magnetic Course
FLO — Fuel Flow	MH — Magnetic Heading
F — Fuel Quantity	
ALT — Altitude Airspeed	W/B — Weight and Balance
CAS — Calibrated Airspeed	GWT — Gross Weight
TAS — True Airspeed	CG — Center of Gravity
DA — Density Altitude	SFT — Shift
M — Mach	%MC — Percent MAC
ST° — Standard Temperature	1 WT — First Weight
TA — True Altitude	1 MO — First Moment
PA — Pressure Altitude	1 AR — First Arm
T°C — True Temperature	NXT — Next
I°C — Indicated Temperature	MOM — Moment
TR° — Temperature Rise	RF — Reduction Factor
CA — Calibrated Airspeed	WT — Weight
WND — Wind	ARM — Arm
WDR — Wind Direction	▲AR — Change in Arm
WSP — Wind Speed	▲CG — Change in CG
HDG — Heading	LMC — Leading Edge of MAC
GS — Groundspeed	MAC — Mean Aerodynamic Cord
XWC — Crosswind Component	TMR — Timer
CRS — Course	DEP — Departure Time
TAS — True Airspeed	ENR — Enroute Time
WCA — Wind Correction Angle	ARR — Arrival Time
HWC — Headwind Component	CNV — Conversion for Time
TWC — Tailwind Component	TUP — Timeup
	TDN — Timedown

Refer to the inside pages for sample problems and a brief overview of operating procedures.

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Tech Star
QUICK ORIENTATION GUIDE