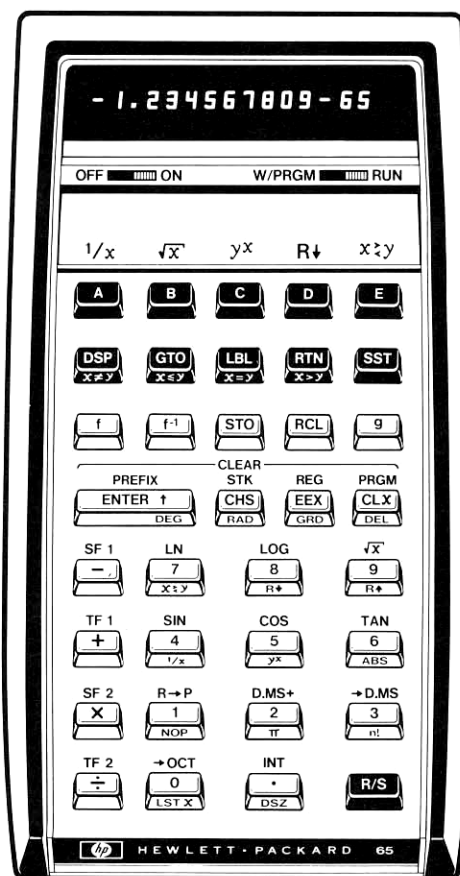




HP-65

PROGRAM FORMS



Merged Operations

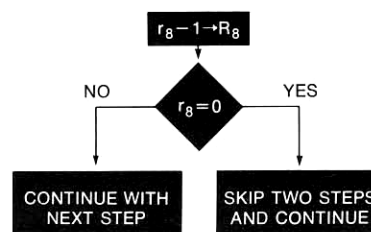
STO 1	STO 5	RCL 1	RCL 5	$g \ x \neq y$	$g \ x \neq y$
STO 2	STO 6	RCL 2	RCL 6	$g \ x \leq y$	$g \ R+$
STO 3	STO 7	RCL 3	RCL 7	$g \ x = y$	$g \ R+$
STO 4	STO 8	RCL 4	RCL 8	$g \ x > y$	$g \ NOP$
					$g \ LSTX$

To create and record a program:

1. **Set** the W/PRGM—RUN switch to W/PRGM.
2. **Press** \boxed{f} \boxed{PRGM} to clear memory.
3. **Key** in program steps.
4. **Insert** an unprotected (unclipped) card (printed side up) in the right, lower slot of the calculator. When the motor advances it through the card reader and out the left side of the calculator, the program is stored on the magnetic card.
5. **Set** the W/PRGM—RUN switch to RUN, and the program is ready to be used.
6. The information recorded on the card can be protected (that is, further recording is not allowed) if you clip off the upper left corner of the card.

Notes:

1. $\boxed{STO} \ \boxed{9}$ and $\boxed{RCL} \ \boxed{9}$ are not merged into one program step.
2. Trigonometric functions, rectangular-polar conversions and relational operations ($\boxed{x \neq y}$, $\boxed{x \leq y}$, $\boxed{x = y}$, $\boxed{x > y}$) use register R_0 for scratch.
3. Conditional operations ($\boxed{x \neq y}$, $\boxed{x \leq y}$, $\boxed{x = y}$, $\boxed{x > y}$, $\boxed{TF1}$, $\boxed{TF2}$) skip two steps if false.
4. \boxed{DSZ} decrements contents (r_8) of register R_8 and tests against zero as shown below:



HP-65 Program Form

Title _____ Page _____ of _____

SWITCH TO W/PRGM. PRESS TO CLEAR MEMORY.

KEY ENTRY	CODE SHOWN	COMMENTS	KEY ENTRY	CODE SHOWN	COMMENTS	REGISTERS
						R ₁ _____

						R ₂ _____

						R ₃ _____

10			60			R ₄ _____

						R ₅ _____

						R ₆ _____

20			70			R ₇ _____

						R ₈ _____

						R ₉ _____

30			80			LABELS
						A _____
						B _____
						C _____
						D _____
						E _____
						0 _____
						1 _____
						2 _____
						3 _____
						4 _____
40			90			5 _____
						6 _____
						7 _____
						8 _____
						9 _____
						FLAGS
						1 _____
						2 _____

50			100			

HP-65 User Instructions

Programmer _____ Date _____

[illegible]