POP

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POP	Pop Top of Return Stack
Syntax:	[*label*] POP
Operands:	None
Operation:	(TOS) → bit bucket
Status Affected:	None

Encoding:

0000	0000	0000	0110

Description:

The TOS value is pulled off the return stack and is discarded. The TOS value then becomes the previous value that was pushed onto the return stack.

This instruction is provided to enable the user to properly manage the return stack to incorporate a software stack.

Words: 1

Cycles: 1

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	No operation	POP TOS value	No operation

Example:

```
POP
GOTO    NEW
```

Before Instruction

TOS	=	0031A2h
Stack (1 level down)	=	014332h

After Instruction

TOS	=	014332h
PC	=	NEW

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