

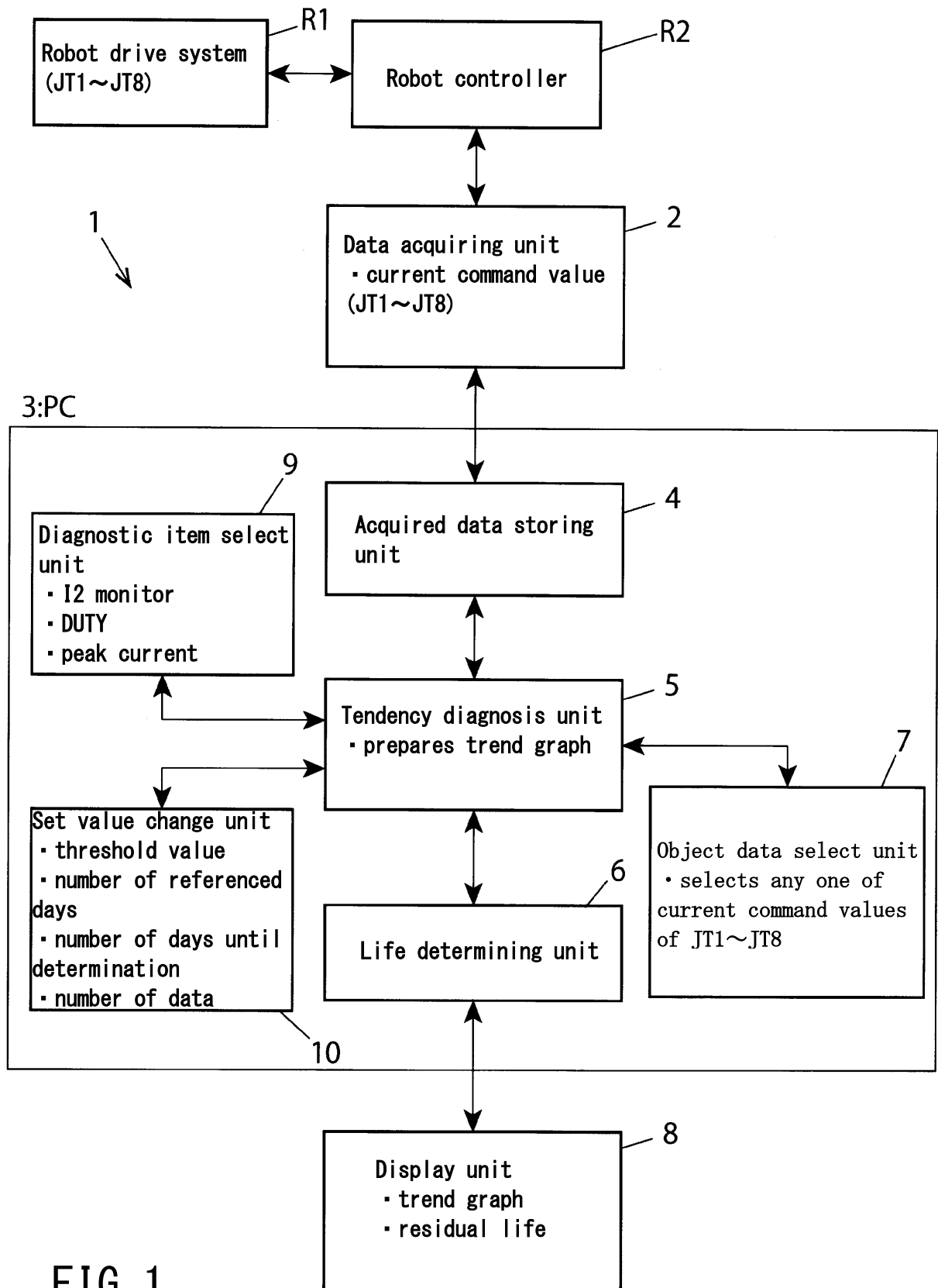


FIG. 1

■Object data

- current command value (JT1~JT8)
- execution section set by robot teach program

FIG. 2

■Set items

- diagnostic item (selects any one of followings)
  - I2 monitor: initial measured value is reference, and threshold value is 107% (design criteria)
  - DUTY: motor continuous stall current value (motor manufacturer' s specification) is reference
  - peak current value: current limit value (amplifier, reduction gear, current limit of motor) is reference
- threshold value
  - can be set arbitrarily (if value other than default value is to be set)
- number of referenced days
  - number of object data days from current date (default: 10 days)
- number of days until determination
  - number of days from current date up to determination date (life prediction value)
- number of date
  - lowest number of data used for diagnostic operation.

FIG. 3

■Trend graph

- X axis: time (month/ date time: minute)
- Y axis: each diagnostic item value
- display range: current date - number of referenced days ~ current data + number of days until determination
- reference line: reference value  $\times$  threshold value / 100
- plot data: diagnosis result
- prediction line: calculated by least-squares method
- prediction date: intersecting point of reference line and prediction line

FIG. 4

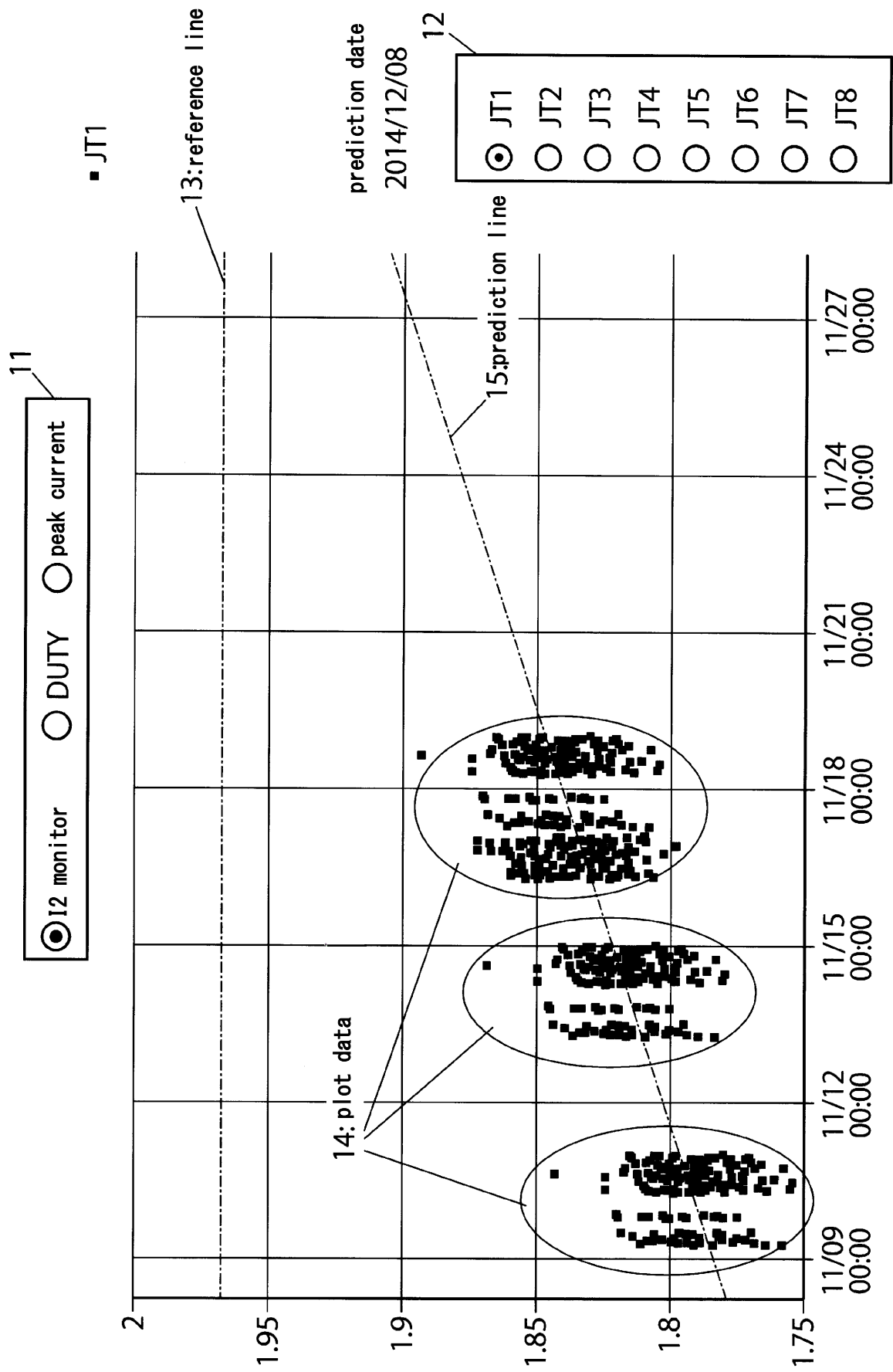


FIG. 5

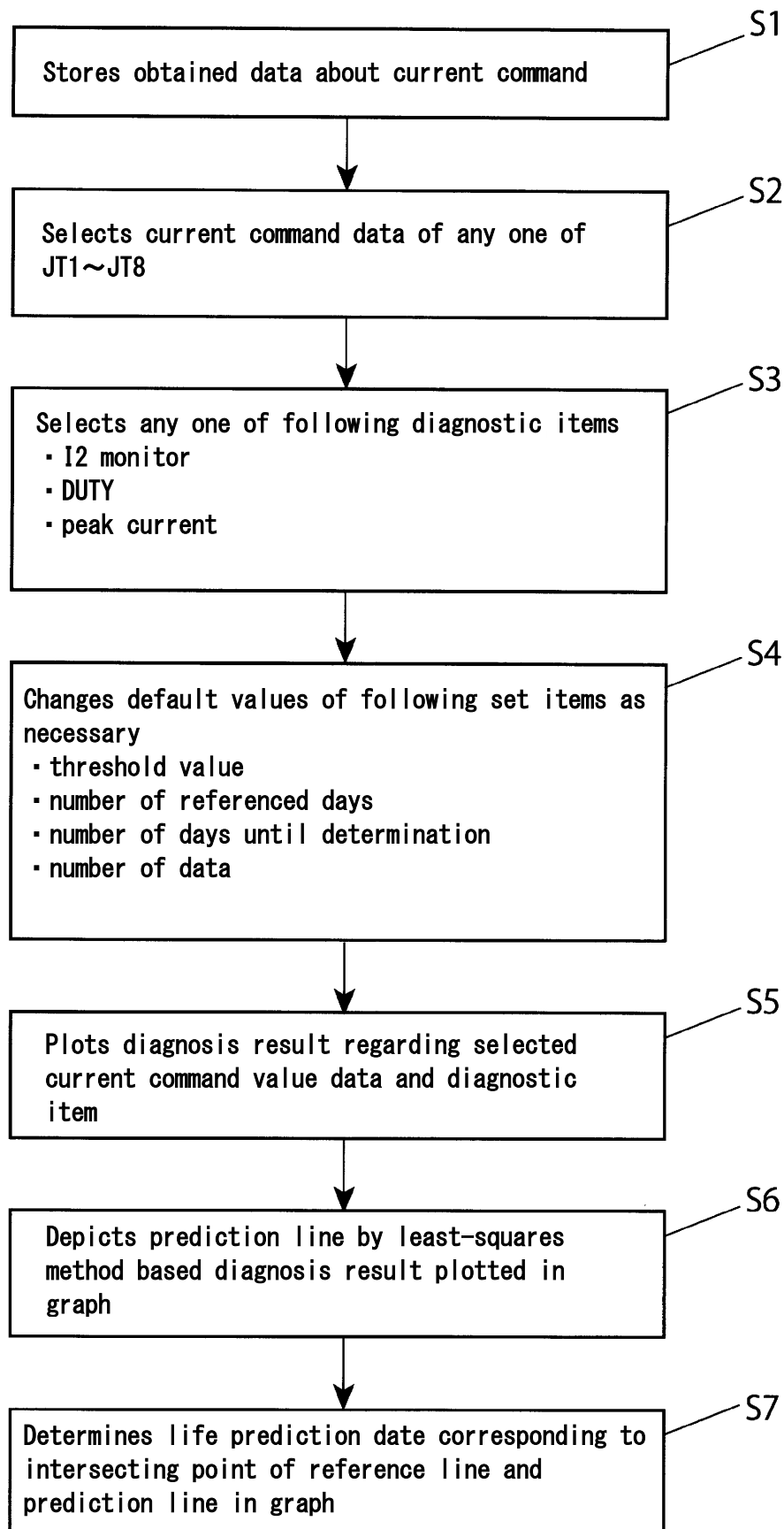


FIG. 6